

# UNH Graduate School

## Master's Theses from Fall, 1990 to Present

### Academic Year of Graduation: Fall 2016 to Summer 2017

#### Biochemistry

| Author          | Thesis Title  |
|-----------------|---|
| Barton, Shannon | Cloning and Expression of the Glycoprotein Subunit GpB5 in the Sea Lamprey, <i>Petromyzon marinus</i>           |
| Hogan, Donna D  | Technique for Normalization of Cross-Linked Peptide Ion Intensity to Elucidate Enzymatic Conformational Changes |

#### Chemical Engineering

| Author              | Thesis Title                                       |
|---------------------|--|
| Barden, Daniel Ryan | Molecular Dynamics Studies of Biomimetic Membranes |

#### Chemistry

| Author          | Thesis Title   |
|-----------------|--|
| Danico, David S | The Development of a Diiron Hydrogenase Mimic Catalyst for Efficient Dihydrogen Production |

#### Civil Engineering

| Author                 | Thesis Title   |
|------------------------|--|
| Angelini, Zachary Paul | Marine Debris Visual Identification Assessment                                 |
| Gaudreau, Ian P        | Critical Shear Stress Estimates for Sunken Alberta Bitman in an Annular Flume  |
| Hunsaker, Adam George  | Evaluation of Satellite-Based Observations for Capturing Early Winter Snowmelt |

#### Earth Sciences:Ocean Mapping

| Author          | Thesis Title   |
|-----------------|--|
| Kidd, John Ryan | Performance Evaluation of the Velodyne VLP-16 System for Surface Feature Surveying |

#### Electrical Engineering

| Author                 | Thesis Title  |
|------------------------|---|
| Klempa, Michael Joseph | Broadband Matching for Circuits with Resistive Terminations |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author        | Thesis Title   |
|---------------|--|
| Nasr, Amr     | A Noise Estimation Scheme for Blind Spectrum Sensing Using EMD |
| Vartuli, Luke | Electronically Variable Load Tester                            |

#### History

| Author               | Thesis Title   |
|----------------------|--|
| Rivard, Jared Paul   | Playing with Dynamite: U.S. Foreign Policy Toward Palestine, 1945-1948   |
| Vance, Katelynn Ruth | "They Set Themselves to Undermine the Whole Thing": Gender and Authority in the Work of Union Female Nurses in the Civil War |

#### NatRsrc:Wildlife&Cons Biology

| Author     | Thesis Title   |
|------------|--|
| Ball, Kyle | Moose Density, Habitat, and Winter Tick Epizootics in a Changing Climate |

#### Ocean Engr:Ocean Mapping

| Author                 | Thesis Title  |
|------------------------|---|
| Birkebak, Matthew Todd | Airborne Lidar Bathymetry Beam Diagnostics Using an Underwater Optical Detector Array |

#### Oceanography

| Author                 | Thesis Title  |
|------------------------|---|
| Burns, Wilton G        | Effects of Small-Scale Turbulence on Phytoplankton Growth and Metabolism  |
| McPherran, Kaitlyn Ann | Seasonal Changes in Geomorphology and Sediment Volume of New Hampshire Beaches: Insights into a Highly-Engineered, Paraglacial, Bedrock-Influenced Mixed Sand and Gravel Coastal System |

#### Social Work

| Author               | Thesis Title  |
|----------------------|---|
| Cox, Katherine Marie | Race and Income Disparities in Disaster Preparedness in Old Age |

#### Sociology



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### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title  |
|-----------------------|---|
| Besette, Jean Alison  | Rural Single Mothers' Childhood Exposure to Trauma and Adversity: Adulthood Chronic Strains, Psychological Distress, and Use of Social Assistance |
| Jones, Braxton Joseph | LGBTQ Prison Policy, Queer Visibility, and Prison Violence  |

#### Writing

| Author                           | Thesis Title   |
|----------------------------------|--|
| Brand, Stephen Wells             | Thank You Hammock  |
| Brown, Cheyenne                  | We Are An Island   |
| Dalke, Kelly Ann                 | Gone East  |
| Daly, Jerome Gerard              | The Responsible Morning  |
| Dame, Russell B                  | Frozen in Ice, Keeps Perfect Time                                |
| Duthrie, Jesse Steven            | The Strength of an Icelandic Horse                               |
| Foreman, Joshua Keith            | Son of the South   |
| Grattan, Lindsay                 | Points of Light  |
| Ludwig, Benjamin I.              | Single-Minded  |
| Luksha, Kate Elizabeth           | Howling Dog Farm and Other Stories                               |
| McManus, Alix Bullock            | How Do You Remember the Dead?                                    |
| Messinger, Christopher           | ONYX   |
| Mitchell, Tamzin Catriona Maryon | Fernweh: Essays  |
| Prior, Holland                   | Preach: Stumbling into My Heritage as an Evangelical Clergywoman |

#### Academic Year of Graduation: Fall 2015 to Summer 2016

##### Animal Sciences

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title  |
|---------------------|---|
| Ort, Shona Brittany | The Impact of Direct-Fed Microbials and Enzymes on the Health and Performance of Holstein Cattle with Emphasis on Colostrum Quality and Serum Immunoglobulins in the Calf |

#### BSCI: Marine Biology

| Author                     | Thesis Title  |
|----------------------------|---|
| Glenn, Megan               | A Comparison of Macrofaunal and Algal Communities in Oyster Aquaculture Gear, an Eelgrass Bed, Oyster Reef, and a Mudflat in Great Bay, New Hampshire |
| Morrissey, Elizabeth Maria | Reproduction and Recruitment of American Lobsters ( <i>Homarus americanus</i> ) in the Great Bay Estuary, New Hampshire                               |

#### Chemical Engineering

| Author            | Thesis Title  |
|-------------------|---|
| Liu, Xiameng      | Experimental Investigation of Drop Formation in Co-Flowing Fluid Flow Systems |
| Mulligan, Tyler J | Molecular Dynamics Studies of Nucleic Acid-Protein Complexes                  |

#### Chemistry

| Author                    | Thesis Title   |
|---------------------------|--|
| Bala, Kaushik Badri       | I. Zinc-Mediated Homologation-Cyclopropanation in $\beta$ -Diketones and Selectivity Within Cyclopropanoxide Rearrangements. II. Zinc-Mediated Tandem Chain Extension-Adol Reaction and Formation of Substituted $\gamma$ -Lactones. |
| Hatstat, Tiffany Michelle | Analysis of Vanillin in Maple Sap for the High School Laboratory   |

#### Civil Engineering

| Author                      | Thesis Title  |
|-----------------------------|---|
| Browne, James Michael       | Development of Equipment and Methodology for the Measurement of Underwater Sound Produced by Deep Foundation Construction |
| DeSantis, Joseph Edward     | Infrastructure Asset Management Incorporating Bridge Information Modeling & Digital Photography                           |
| Jacques, Christopher Daniel | Impact of Silo Storage Time and Specimen Fabrication Methods on Hot Mix Asphalt Mixtures                                  |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                   | Thesis Title   |
|--------------------------|--|
| Osborne, Douglas J       | Evaluating Melt Onset Date in the United States Using Remotely Sensed Passive Microwave Derived Brightness Temperature |
| Packhem, Alyson Lynn     | Understanding and Controlling the Fouling of Ceramic Membranes by Manganese  |
| Watkins, Charles Richter | Critical Shear Stress Estimates of Sunken Alberta Bitumen  |

#### Computer Science

| Author                | Thesis Title   |
|-----------------------|--|
| Hager, Seth Adam      | Migrating Thread-Based Intentional Concurrent Programming to a Task-Based Paradigm |
| Rossi, Thomas Richard | Semi Automated Partial Credit Grading of Programming Assignments                   |
| Venugopal, Rohit      | Hydrographic Data Processing on a Robust, Networked-Couples Parallel Cluster       |

#### Earth Sciences

| Author          | Thesis Title   |
|-----------------|--|
| Lazarcik, James | Major Fraction of Black Carbon is Flushed from New Hampshire Seasonal Snowpack Early in Melt |

#### Earth Sciences: Geology

| Author                    | Thesis Title  |
|---------------------------|---|
| Hodgdon, Taylor Scott     | Developing a Chronology for Thinning of the Laurentide Ice Sheet in New Hampshire During the Last Deglaciation                            |
| Lundgren, Dylan James     | Assessing Bottom Sediment Methane Concentrations and the Extent of Anaerobic Oxidation of Methane in the Great Bay Estuary, New Hampshire |
| Sinclair, Samantha Noelle | Origin of De Geer Moraines in the Seacoast Region of New Hampshire  |
| Widlansky, Sarah Johnson  | Paleomagnetism of the Cretaceous Galula Formation and Implications for Vertebrate Paleobiogeography                                       |

#### Earth Sciences: Ocean Mapping

| Author            | Thesis Title  |
|-------------------|---|
| Irish, Onni Bowen | Analysis of CLCS Recommendations in Light of Their Relevance to the Delineation of a United States Extended Continental Shelf (ECS) in the Arctic |



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### Master's Theses from Fall, 1990 to Present

#### Electrical Engineering

| Author                   | Thesis Title  |
|--------------------------|---|
| Ansari, Mohammad Raashid | Low-Cost Approaches to Detect Masquerade and Replay Attacks on Automotive Controller Area Network                             |
| Brown, Blake A           | System for the Measurement and Evaluation of Synchronization Characteristics of IEEE 1588 Precision Time Protocol Clock Nodes |
| Frey, Jonathan Peter     | Mitigation of Hardware Trojan Attacks on Networks-on-Chip   |

#### Genetics

| Author                | Thesis Title  |
|-----------------------|---|
| Aggarwal, Taruna      | Understanding the Evolution of Pathogenicity Within Geosmithia  |
| Havens, Lindsay Anne  | Establishment of the Multicolored Asian Lady Beetle, <i>Harmonia axyridis</i> , as a Model System for the Evolution of Phenotypic Variation     |
| Levy, Sarah Elizabeth | Characterizing the Genomic and Genetic Variation of Problematic Weed Species in Northern New England as an Assessment of Evolutionary Potential |

#### History

| Author          | Thesis Title  |
|-----------------|---|
| Umholtz, Robert | The Grand Alliance: From Necessity to Suspicion, Development to Decline |

#### Hydrology

| Author                    | Thesis Title   |
|---------------------------|--|
| Arpino, Meghan            | Effects of High-Resolution Topography and Hydraulics on Reach-Scale Estimates of Nitrate Transport and Retention in the Suncook River, Epsom, NH |
| Wilderotter, Sophie Marie | Parameterization of Transient Storage and Nutrient Retention in Coastal New England Wetlands   |

#### Justice Studies

| Author                    | Thesis Title  |
|---------------------------|---|
| DePasquale, Michelle Lynn | Relationship Type as a Predictor of Disclosure and Social Reactions to Disclosure of Sexual Intimate Partner Violence Victimization |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Rosen, Melanie Mara | The U.S. Federal Courts Response and their Application of the Best Interests of the Child Standard: Applying the Hague Convention to International Child Abduction |

#### Mechanical Engineering

| Author                   | Thesis Title  |
|--------------------------|---|
| Baral, Madhav            | Experimental Investigation of Plastic Anisotropy of Commercially-Pure Titanium  |
| Fuller, Thomas C. K.     | Experimental Celestial Navigation Prototype for Computer Vision Based Nautical Sight Reduction  |
| Hashem, Christopher Paul | Modified Hybrid Modeling Technique for Flexible Spin-Stabilized Spacecraft Applied to NASA's Magnetospheric Multiscale (MMS) Mission Tablesat Generation IC (Tablesat IC) |
| Jiang, Yunyao            | Analytical, Experimental and Numerical Study on the Mechanical Behavior of 3D Printed Auxetic Chiral Structures   |
| Roemer, Timothy John     | Experimental Apparatus for Continuous-Bending- Under-Tension and Experiments on AA6022-T4   |
| Trottier, Travis Paul    | Design and Evaluation of a Force Platform-Type Instrument to Measure Rate Change in Mass and Centroid of an Ablating Body   |

#### Microbiology

| Author              | Thesis Title  |
|---------------------|---|
| Landis, Elizabeth A | Physiological Changes in White-Rot Fungi in Response to Simulated Nitrogen Deposition are not Readily Reversed Through Experimental Evolution |

#### NatRsrc:Environmental Consvrtn

| Author                | Thesis Title   |
|-----------------------|--|
| Dowhaniuk, Nicholas S | Assessing the Impact of Industrial Oil Development, Human Population Growth, and Post-Conflict Regrowth in an African Biodiversity Hotspot |

#### NatRsrc:Forestry

| Author                     | Thesis Title   |
|----------------------------|--|
| Kozikowski, Joshua Glidden | Environmental Variables Associated with Invasive Glossy Buckthorn ( <i>Frangula alnus</i> Mill.) and Indirect Control Strategies for Forest Managers |



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#### NatRsrc:Wildlife&Cons Biology

| Author               | Thesis Title  |
|----------------------|---|
| Daniels, Eleanor Q   | Relating Shell Morphometrics and Heterozygosity to Byssogenesis, Byssal Thread Attachment Strength and Motility in the blue Mussel            |
| Jones, Henry Francis | Assessment of Health, Mortality, and Population Dynamics of Moose in Northern New Hampshire During Successive Years of Winter Tick Epizootics |
| Maguire, Andrew John | Space Use and Habitat Affinities of the Singing Vole on the Northern Foothills of the Brooks Range, Alaska                                    |

#### Natural Resources

| Author               | Thesis Title   |
|----------------------|--|
| Anthony, Mark Alan   | Invasive Plant ( <i>Alliaria petiolata</i> ; Garlic Mustard) Homogenizes Fungal Community Composition and Increases Fungal Richness  |
| Crowley, Morgan Ann  | Non-Industrial Private Forest Landowner Engagement and Amenity-Driven Migration in Wildfire-Prone Landscapes of the Inland Northwest |
| Shaiyen, Myers Meyen | Effects of Mowing and Soil Disturbance on the No-Till Establishment and Productivity of a Diverse Forage Crop Cocktail in Hayfields  |

#### Nutritional Science

| Author                 | Thesis Title   |
|------------------------|--|
| Antaya, Nicole Theresa | Kelp Meal ( <i>Ascophyllum nodosum</i> ) Supplementation to Organic Lactating Dairy Cows: Effects on Milk Production, Milk Composition, Animal Health and Nutrient Utilization During the Non-Grazing and Grazing Seasons in New Hampshire |

#### Ocean Engineering

| Author                     | Thesis Title  |
|----------------------------|---|
| Manda, Damian Curtis       | Development of Autonomous Surface Vessels for Hydrographic Survey Applications                                    |
| Pillsbury, Liam Fitzgerald | Characterizing and Quantifying Marine Methane Gas Seeps Using Acoustic Observations and Bubble Dissolution Models |

#### Plant Biology

| Author                | Thesis Title  |
|-----------------------|---|
| Eaton, Connor Michael | Year-Round Management of High Tunnel Production Systems: Spinach and Tomato |





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|------------------------|---|
| Sarver, Kara Elizabeth | Differential Expression Analysis of Arabidopsis thaliana With Constitutive and Inducible Up-Regulated Polyamine Biosynthesis  |
| Wyka, Stephen A        | Characterization and Distribution of Fungi Associated with Needle Defoliation and Eastern White Pine ( <i>Pinus strobus</i> ) |

#### Political Science

| Author             | Thesis Title  |
|--------------------|---|
| Majure, Britney    | Corrections Corporation of America Irresponsibility and Investor Behavior   |
| Reed, Alden Foster | Nationalists & Guerillas: How Nationalism Tranformed Warfare, Insurgency & Colonial Resistance in Late 19th Century Cuba (1895-1898) and the Philipines (1899-1902) |

#### Resource Administration & Mgmt

| Author                | Thesis Title   |
|-----------------------|--|
| McLaughlin, Megan E F | Ban, Fee, Take-Back/Recycle: Which Approach Wins Out in the End? |

#### Sociology

| Author                  | Thesis Title   |
|-------------------------|--|
| Kennedy, Reeve S        | Bully/Victims - One Homogenous Group? Differences Among Youth Involved in Bullying Perpetration and Peer Victimization |
| Puchlopek, Alli Janelle | Birthing in a Risk Society: A Qualitative Analysis of Pregnant and New Mothers' Experiences                            |

#### Writing

| Author                | Thesis Title                              |
|-----------------------|---|
| Belisle, Paige E      | The Silhouette Runaways                   |
| Folmar, Joshua Morgan | Here We Rest                              |
| Miller, Beth Ann      | Wild Little Things                        |
| Orifici, Gregg J      | Happy As I Am                             |
| Parker, Jeremy John   | and when the ghost has vanished [stories] |

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| Author                        | Thesis Title  |
|-------------------------------|---|
| Plascencia, Cynthia Guadalupe | Hope this Reaches You in Time                           |
| Riello, Mike                  | Victory to the Irrelevant Cause                         |
| Riley, Allison Lynelle        | Valley of Flowers                                       |
| Russell, Jayce Christian      | We Are Aliens, and it is the Way                        |
| Thompson, Emily Rosemary      | Shadowbox   |
| Toner, Michael Ryan           | Afraid of My Own Shadow: Essays of Fear and Uncertainty |
| Ver Ploeg, Katherine Adriana  | Ways to Move  |

#### Zoology

| Author                | Thesis Title   |
|-----------------------|--|
| Eckert, Robert Lee    | Oyster ( <i>Crassostrea virginica</i> ) Recruitment Studies in the Great Bay Estuary, New Hampshire                                |
| Luell, Steven Michael | Oxytetracycline and Thermal Marking of Alewife ( <i>Alosa pseudoharengus</i> ) Otoliths  |
| Perron, Julie A       | What Factors Influence Horse Behavior in the Equine Assisted Activities & Therapy Environment?                                     |
| Pizzi, Nicholas James | Cuticular Hydrocarbons of the Subsocial Small Carpenter Bee <i>Caratina calcarata</i> Robertson (Hymenoptera: Apidae: Xylocopinae) |

#### Academic Year of Graduation: Fall 2014 to Summer 2015

##### Animal Sciences

| Author               | Thesis Title   |
|----------------------|--|
| Aragona, Kayla Marie | Prepartum Supplementation of Nicotinic Acid: Effects on Health of the Dam, Colostrum Quality and Acquisition of Immunity in the Calf                             |
| Isenberg, Brianna J  | Effects of Ground Flaxseed Supplementation on Animal Production and Milk Fatty Acid Profile in Organically-Certified Lactating Jerseys During the Grazing Season |

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### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title   |
|--------------------|--|
| Perkins, Dorothy A | Measurements of Haptoglobin, Serum Amyloid A, Fibrinogen, and Leukocytes to Evaluate Stress in Organically Managed, Pasture-Fed and Conventional Managed, Totally Mixed Ration-Fed Jersey Cattle |

#### Biochemistry

| Author          | Thesis Title  |
|-----------------|---|
| Gargan, James R | Recombinant Production of a Tethered Glycoprotein Hormone of Novel subunit Composition With Demonstrated in Vitro Activity at the Gonadal Glycoprotein Hormone Receptor in Sea Lampreys, <i>Petromyzon marinus</i> Using the Methototropic Yeast, |

#### Chemical Engineering

| Author           | Thesis Title   |
|------------------|--|
| Castagnaro, Tony | Overexpression and Characterization of Lacasse from <i>Geobacillus thermoglucosidasius</i> |
| Zukas, Brian G   | Encapsulation of Anti-Traction Material  |

#### Chemistry

| Author       | Thesis Title   |
|--------------|--|
| Rong, Yanmei | Synthesis and Characterizations of Linearly Extended Thiazinium Salts as Organic Semiconductors      |
| Yang, Jinyu  | Syntheses and Characterization of Linearly Extended Tropylium Salts as N-Type Organic Semiconductors |

#### Civil Engineering

| Author                     | Thesis Title   |
|----------------------------|--|
| Appiah, Varouna K          | Characterizing Biological Manganese Removal in Rapid Biofiltration Systems   |
| Chamberlain, Whitney Anne  | Investigating the Recovery of Phosphate from Anaerobic Degester Liquor Using Ion Exchange, and its Subsequent Application as a Liquid Fertilizer |
| Collins, Joshua A          | Controlling Manganese Speciation for Optimizing Removals   |
| Damberg-Mausser, Rebecca A | Evaluation of Passive Sampling Techniques to Assess PAH Uptake in Pore Water and Benthic Organisms   |
| Demers, Tyler S            | Properties of Soils Using Reverse Extrusion  |



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### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title  |
|-----------------------|---|
| Foy, Timothy          | Automatic Updating of Structural Models Using Inspection Report Data  |
| Im, Jihyon            | Investigation of Resin Regeneration in the Suspended Ion Exchange (SIX) System  |
| McCowan, Meagan Leah  | Developing a Horizontal In-Line Diffused Aeration System for Removing Trihalomethanes from Water Distribution Mains   |
| Santamaria, Americo J | Finite Element Analysis of PV Drains for a Test Embankment on Soft Clay   |
| Suprunenko, Ganna     | Suction-Controlled Cyclic Triaxial Test to Measure STRain-Dependent Dynamic Shear Modulus of Unsaturated Sand   |
| Wyatt, Kyle David     | Creating A Smartphone Application for Measuring Responses of an Experimental Structure at Multiple Locations and for K-12 Stem Outreach Related to Structural Engineering |

#### Computer Science

| Author                    | Thesis Title  |
|---------------------------|---|
| Atallah, Mario Edmond     | Mobile Video Delivery with Minimal Bitrate Changes  |
| Hebert, Christopher R     | Inferring Types to Eliminate Ownership Checks in an International JavaScript Compiler                     |
| Heidari, Yassamin         | Protocols for Management and Control of Sensors and Measurement Devices in an Assisted Living Environment |
| Hu, Han                   | Binary Adaptive Semi-Global Matching Based on Image Edges   |
| O'Ceallaigh, Dylan M      | Metareasoning in Real-Time Heuristic Search   |
| Schwartz, Alexander James | Improving Distributed Flow Visualization by Sharing Data Regions  |

#### CSD:EarlyChildIntervention

| Author          | Thesis Title   |
|-----------------|--|
| Willey, Tanya J | Speech-Language Pathologists' Input to Toddlers in Early Intervention: A Pilot Study |

#### Earth Sciences

| Author          | Thesis Title  |
|-----------------|---|
| Loudin, Lorne C | The Relationship Between Volatiles (CO <sub>2</sub> , H <sub>2</sub> O, F, S & C <sub>1</sub> ) and Noble Gases in Reykjanes Peninsula Lavas, Iceland |



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### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title  |
|-------------------|---|
| Roddy, Samantha L | Vegetation Influences on the Ebullition of Methane in a Temperate Wetland |

#### Earth Sciences: Geology

| Author                | Thesis Title   |
|-----------------------|--|
| Huss, Elizabeth Grace | Quantifying Glacier Sensitivity to Lateglacial and Holocene Climate Changes in the Southern Peruvian Andes |

#### Electrical Engineering

| Author               | Thesis Title   |
|----------------------|--|
| Blanchette, Braden S | An Assessment of Path Loss Tools and Practical Testing of Television White Space Frequencies for Rural Broadband Deployments |
| Dofe, Jaya           | Hardware Attack Detection and Prevention for Chip Security   |
| Escobar, Eric R      | A Coplanar Edge-Fed Optically-Transparent Microstrip Patch Antenna Operating in the 5-6 GHz Frequency Spectrum               |
| Kimsey, Thomas P     | A IoT Based Service System as a Research and Education Platform  |
| Nsengiyumva, Patrick | Investigating the Effects of Single-Event Upsets in Static and Dynamic Registers   |
| Reynolds, Daniel S   | Video Copy Detection Utilizing Log-Polar Transformation  |
| Valayil, Minu K      | Enhancement of Parameters of Slotted Waveguide Antenna Using Metamaterial Structures   |
| Zhong, Jiawei        | Network Interface Design for Network on Chip   |

#### History

| Author             | Thesis Title   |
|--------------------|--|
| Ford, Linsey Janet | Mastering Magico-Medicine: Slave Health and Culture on New World Plantations |

#### Human Devel & Family Studies

| Author           | Thesis Title  |
|------------------|---|
| Leonard, Sarah E | The Benefits of Recreational Fishing in Adolescence |



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### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Stefon, Minori Haga | Unique Features of Identity Development in Transnational Adoptions |

#### Hydrology

| Author                | Thesis Title   |
|-----------------------|--|
| Lawrence, Katherine D | Effects of Discharge on Residence Time Distributions in a Small Headwater Wetland in the Ipswich River Watershed |

#### Justice Studies

| Author                      | Thesis Title   |
|-----------------------------|--|
| Moschella, Elizabeth Ashley | Bystander Action Consequences: Attitude Responses of Victim and Perpetrator      |
| Oldenquist, Amy L           | Law, Justice, and All that Jazz: An Analysis of Law's Reach into Musical Theater |

#### Liberal Studies

| Author                   | Thesis Title   |
|--------------------------|--|
| Knox, Carol Andrea       | Exploring Students in Human Service Fields Perceptions of University Climate for Racial and Ethnic Diversity |
| Larkin, Benjamin C       | Presidential Rhetoric: A Call to War in the Post-Cold War United States                                      |
| Marquette, Joseph Albert | Filming the Gay Normal: An Exploration of the Gay Closet and its Portrayal in Film                           |

#### Mathematics

| Author            | Thesis Title                                    |
|-------------------|---|
| Vdovyn, Oleksandr | Mathematical Analysis of Energy Harvester Model |

#### Mechanical Engineering

| Author             | Thesis Title   |
|--------------------|--|
| Bajor, Eric J      | High-Frequency Broadband Seafloor Backscatter in a Sandy Estuarine Environment   |
| Castelli, Daniel A | Asteroid Modeling and Prediction (AMPa): An Investigation of Numerical Modeling Techniques for Fragmented Asteroid Particles of an Earth-Crossing Asteroid Post-Mitigation Application |



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### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title   |
|--------------------|--|
| Dunstan, Michael J | Streamline Geometry Analysis of Turbulent Fluid Flows  |
| Ebner, Jason A.    | Dynamics of Tension Force-Driven Wave Energy Converter   |
| Jafari, Hesam      | Investigation on Epoxy Resin Yielding Under Pure Hydrostatic Stresses and Novel Method to Reduce Microcracking |
| Kubec, Vojtech     | Enhancing the Material Testing Capabilities at the University of New Hampshire                                 |
| Perkins, Jared C   | Development of the NASA Celestial Navigation Method for Dynamic Extraterrestrial Surface Navigation            |
| Rines, Eric H      | An Automated Airlift System for Open Water Aquaculture   |
| Ripley, Peter W    | Biaxial Stress Testing of SS-304L Microtubes by Axial Load and Internal Pressure                               |
| Wilson, Joseph F   | Development of a Biaxial Loading Frame for Thin Sheet Cruciform Specimens                                      |

#### Microbiology

| Author                | Thesis Title   |
|-----------------------|--|
| Belanger, Stephanie N | Optimization of an Integrative Suspension Cell Culture/<br>Quantitative PCR Technique for the Detection of Enteroviruses in Surface Water  |
| Gleeson, Garrett H    | The Dynamic Host-Pathogen Interactions of <i>Verticillium dahliae</i> : Comparative Genomics of <i>V. dahliae</i> and its Interactions in Cover Crop Species and Wild Strawberry ( <i>Fragaria vesca</i> ) |

#### NatRsrc:Environmental Consvrtn

| Author                  | Thesis Title  |
|-------------------------|---|
| Kovacs, Jenna M         | Forest Cover Type Analysis of New England Forests using Innovative Worldview-2 Imagery  |
| Ledoux, Lindsay Kirsten | Evaluating Landsat 8 Satellite Sensor Data for Improved Vegetation Mapping Accuracy of the New Hampshire Coastal Watershed Area |

#### NatRsrc:Forestry

| Author           | Thesis Title  |
|------------------|---|
| Kenny, Colleen A | The Effects of Recreation and Disturbance on the Invasibility of Forest Interiors |



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### Master's Theses from Fall, 1990 to Present

| Author          | Thesis Title  |
|-----------------|---|
| Knapp, Rachel A | A Comparison of Absolute and Relative Stand Density Measures used in the Northeastern United States |

#### NatRsrc:Soil&Water Rsrc Mgt

| Author                    | Thesis Title  |
|---------------------------|---|
| Rodriguez-Cardona, Bianca | Nitrate Uptake Kinetics in Streams: Is Carbon the Driver? |

#### NatRsrc:Water Resources

| Author           | Thesis Title  |
|------------------|---|
| Price, Allison J | Nitrate Dynamics Across Temporal Scales and Land Use Types in Three Headwater Catchments Observed Using High-Frequency Measurements |

#### NatRsrc:Wildlife&Cons Biology

| Author          | Thesis Title  |
|-----------------|---|
| Mahard, Tyler J | An Evaluation of Citizen Science-Based Indices for Monitoring the Distribution and Abundance of Bobcats ( <i>Lynx rufus</i> ) |

#### Natural Resources

| Author                | Thesis Title  |
|-----------------------|---|
| Grybas, Heather Marie | Landcover Change Analysis for Assateague Island National Seashore Following Hurricane Sandy |
| Pellissier, Paul A    | Remote Sensing of Foliar Nitrogen in Cultivated Grasslands of Human Dominated Landscapes    |

#### Nutritional Science

| Author           | Thesis Title   |
|------------------|--|
| Cowens, Kylie R  | Effect of In Vivo Polybrominated Diphenylether (PBDE) Treatment on Hepatic Glyceroneogenesis and Lipid Metabolism  |
| Davis, Kristin E | A Whole Grain Education Program for Older Adults: Its Effectiveness on Older Adults' Knowledge and Intake of Whole Grains and its Implications for use with Younger Adults |

#### Ocean Engineering

| Author | Thesis Title |
|--------|--------------|
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### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title   |
|-------------------|--|
| Carlson, Emily M  | Ripple Migration and Boundary Layer Dynamics on a Natural Sand Bed           |
| Lawson, Clinton B | Object Oriented Scour Analysis for Manmade Objects Within an Artificial Reef |

#### Ocean Engr:Ocean Mapping

| Author  | Thesis Title   |
|---------|--|
| Hu, Han | Euclidean Reconstruction of Natural Underwater Scenes Using Optic Imagery Sequence |

#### Oceanography

| Author                     | Thesis Title  |
|----------------------------|---|
| DeLong, Kimberly A         | Millennial-Scale Variability in the Indian Monsoon and Links to Ocean Circulation   |
| Humberston, Joshua Lincoln | Estimating Surficial Seafloor Sediment Properties Using an Empirical Orthogonal Decomposition on Acoustic Backscatter Waveform Properties |

#### Physics

| Author              | Thesis Title   |
|---------------------|--|
| Bennett, Tyler Paul | The Synthesis and Characterization of Iron Nanoparticles |

#### Political Science

| Author                 | Thesis Title  |
|------------------------|---|
| Kowalik, Kyrie A       | The Pan-Mayan Movement: Then and Now  |
| Nunnally, William J    | Education as Regime Change in Aristotle's Politics                                      |
| Pretorius, Christina M | Resource Allocation of Super PACs: An Analysis of the 2012 Congressional Election Cycle |

#### Psychology

| Author                     | Thesis Title   |
|----------------------------|--|
| Dean, Sarah C              | Comprehending Fictional Narratives: Overcoming Interference from General World Knowledge |
| Williams, Christopher Ryan | Processing Semantic Anomalies: Validation Against General World Knowledge                |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### RMP:Recreation Admin

| Author            | Thesis Title   |
|-------------------|--|
| Lynch, Myles Liam | Assessing Creativity Via Divergent Thinking in Residential Camp Settings                 |
| Yang, Chao        | Creative Leisure of Older Adults at a Community School in Pudong New Area Shanghai China |

#### Secondary Education

| Author               | Thesis Title   |
|----------------------|--|
| Rowley, Martin Flagg | Arendt and Foucault: Perspectives on Modernity and Citizenship |

#### Sociology

| Author            | Thesis Title  |
|-------------------|---|
| Exline, Eleta C   | Gender Composition and Salary Gaps in Association of Reserach Libraries (ARL) Institutions  |
| Swindell, Amber E | Is the Relationship Between Adolescent Dating and Delinquency Spurious? The Role of Self-Control in Explaining the Correlation Between Dating and Delinquency |

#### Writing

| Author               | Thesis Title                 |
|----------------------|------------------------------|
| Brown, Leslie J      | Skin and Other Coverings     |
| Burton, Noah J       | Look Out, Animal             |
| Cami, Alyssa         | Heart in a Jar               |
| Earle, Sarah E       | Lessons in Dirt              |
| Geigley, Jason M     | All-American Man-Love        |
| Lackey, Emily K      | Kindling                     |
| Ledford, Alexandra I | Children of the Anxious City |
| Martino, Alyssa C    | Impact Craters               |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title       |
|--------------------|--------------------|
| Mitchell, Andrew R | Fallout: Stories   |
| Nold, Kimberly M   | How the Story Goes |
| O'Connor, Katie H  | Bloodroot          |
| Sauber, Amy K      | After You          |

#### Zoology

| Author                  | Thesis Title  |
|-------------------------|---|
| Caruso, Catherine Curro | The Effects of Temperature on <i>cyp19a1a</i> , <i>fox2</i> , <i>dmrt1</i> and <i>amh</i> Expression During Sex Differentiation in Summer Flounder ( <i>Paralichthys dentatus</i> ) |
| Chase, Anna Lindsey     | Effects of Substrate Material on Marine Fouling Community Composition and Ascidian Larval Settlement  |
| Duclos, Kristin Lynn    | Maturity and Growth of the Acadian Redfish ( <i>Sebastes fasciatus</i> ) in the Gulf of Maine   |
| Lee, Colin Anthony      | Mechanisms of Satiation in the Nudibranch <i>Melibe leonina</i>   |
| Watson, Mark T          | The Use of Tricaine Methanesulfonate, Clove Oil, Metomidate, and 2-Phenoxyethanol for Anesthesia Induction in Alewives ( <i>Alosa pseudoharengus</i> )                              |

#### Academic Year of Graduation: Fall 2013 to Summer 2014

#### Animal Sciences

| Author            | Thesis Title   |
|-------------------|--|
| Guindon, Nicole E | Effects of Human Visitor on Calf Growth, Starter Intake, Water Intake and Blood Metabolites During Weaning for Calves Fed Conventional and Accelerated Milk Replacer |
| Standish, Rebecca | The Effects of Oral Nicotinic Acid to Prepartum or Late Lactation Dairy Cows   |

#### Biochemistry

| Author          | Thesis Title  |
|-----------------|---|
| Jordon, Kiara S | Real-Time Electrophoretic Mobility in Membrane Confined Electrophoresis |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title  |
|-------------------|---|
| Pearson, Joseph Z | Evaluation of the Measurement of Biomolecular Dipole Moment; Dielectric and Electrolytic Solution Parameters by Calorimetry                 |
| Ul-Hasan, Sabah   | Identification of Glycoprotein Hormone Subunit GPB5 and Biological Studies in the Pituitary of Adult Sea Lamprey, <i>Petromyzon marinus</i> |
| Warren, Taylor M  | Evolution in Action: Experimental Evolution of Biofilms with <i>Pseudomonas Fluorescens</i>   |
| Wied, Alexander R | Extending the Functionality of Sednterp   |

#### Chemical Engineering

| Author         | Thesis Title  |
|----------------|---|
| Chang, Rui     | A Rotating Ring-Disk Electrode Study of Potential Oscillations During Galvanostatic Copper Electrodeposition in a Leveler-Accelerant System |
| Hintz, Chloe A | Fabrication of Bio-Based Activated Carbons For Removal of Aqueous Pharmaceuticals   |

#### Chemistry

| Author             | Thesis Title  |
|--------------------|---|
| Burton, Steve K R  | I. Methodology Employed to Attain Accurate ZN(II) Buffering for Studies of Retinal Phosphodiesterase 6 II. Binding Stoichiometres of CU(II) and NI(II) Complexes of N-Isobutyl-(2-Pyridinylethyl)-2-Pyridinemethanamine |
| Cho, Eunhye        | Synthesis of Fullerene-Acene Dyads  |
| Harney, Justin S   | Investigation of Hydrogen Bonding in Rubredoxin Model Complexes   |
| Lei, Yuxi          | Explorations of Interactions Between Water and Polymeric Nanoparticles  |
| Moran, Peter F     | Synthesis and Rearrangement of Cyclopropyl Alcohols   |
| Papantones, Alex N | Molecularly Imprinting for Nitrophenols and Nitrogen Heterocycles Using Copolymers of Poly (N-Isopropylacrylamide ) Without Added Crosslinker   |

#### Civil Engineering

| Author            | Thesis Title   |
|-------------------|--|
| Carignan, Bryan A | The Impact of Climate Change on Snow Water Equivalent in New England |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                      | Thesis Title  |
|-----------------------------|---|
| Gullison, Marc A            | Analysis of "Smart Rock" Data from Debris Flow Experimentation  |
| Horner-Richardson, Ransom D | A Comparison of of Organic Precursor and Manganese Removals from Side-by-Side, Full Scale Anthracite and GAC Biofilters |
| Hughes, RaeAnna Mckinley    | Formation of Genotoxic Compunds by Medium Pressure Ultraviolet Treatment of Pre-Treated Surface Water and Groundwater   |
| Norton, Christopher T       | Evaluation of Capping Technolgies for In-Situ Remediation of Contaminated Sediment                                      |
| Roakes, Harrison R          | Investigatin of Anion and Cation Exchange Resins for Use in the Suspended Ion Exchange (SIX) System                     |
| Terry, Carter W             | Structural Analysis Integration as an Aid to Segmental Bridge Deck Replacement  |

#### Computer Science

| Author              | Thesis Title   |
|---------------------|--|
| Asthana, Juhi       | Emulating the IOS HTTP Live Streaming Media Player Rate Selection Mechanism    |
| Mihtsentu, Mezgeb T | Representing the Structure of Flow in Estuaries                                |
| St. Jean, Carmen R  | Using Interactive Visualization to Enhance Understrnading of a Fisheries Model |
| Widger, Niels A     | Deterministic Execution in a Java-Like Language                                |

#### CSD:Lang&LitDisabilities

| Author            | Thesis Title                      |
|-------------------|-----------------------------------|
| Ramsdell, Darcy P | The Writing of Students with ADHD |

#### Earth Sciences

| Author                | Thesis Title  |
|-----------------------|---|
| Amante, Jacqueline M  | The Distribution and Movement of Black Carbon and Other Chemical Impurities and the Effects on Snow Albedo in New Hampshire |
| Dorich, Christopher D | Comparison of Greenhouse Gas Emissions on an Organic and Conventional Dairy Farm in New Hampshire                           |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author         | Thesis Title  |
|----------------|---|
| Uter, Melika C | The Impact of Ocean Acidification on Metal Contaminated Marine Sediment |

#### Earth Sciences: Geology

| Author                 | Thesis Title   |
|------------------------|--|
| Korkolis, Evangelos    | In Situ Observation of Shear Zone Microstructures and Strain Localization Using a Transparent Rotary Shear Apparatus               |
| Schweinsberg, Avriel D | Clastic Flux Records of Holocene Glacier and Climate Variability in Sediment Cores from the Cordillera Vilcabamba of Southern Peru |

#### Earth Sciences: Ocean Mapping

| Author    | Thesis Title  |
|-----------|---|
| Yao, Fang | Uncertainty Analysis on Photogrammetry-Derived National Shoreline |

#### Electrical Engineering

| Author                | Thesis Title   |
|-----------------------|--|
| Bera, Ranita          | Enhancing Indoor Probabilistic Localization Methods Using Prior Information  |
| Filipovic, David      | Wavelet Analysis of Surface EMG Signals From Three Superficial Quadriceps Muscles Under Varying Levels of Contraction Intensity and Velocity |
| Gill, Neeraj          | Practical and Intelligent Control for Large Scale Wind Turbines  |
| Pena, Michael Matthew | Asic Based Radio Frequency Identification Tag for Real Time Location Systems to be Used in Hospitals   |
| Shahriar, Syed Tarek  | Exploring the Effects of Augmented Reality Based Navigation Devices on Visual Distraction and Driving Performance                            |

#### Genetics

| Author         | Thesis Title  |
|----------------|---|
| Lepine, Jack R | The Subcellular Localization of Palmitoyltransferases in Arabidopsis thaliana |

#### History

| Author | Thesis Title |
|--------|--------------|
|--------|--------------|

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author           | Thesis Title   |
|------------------|--|
| Ferrara, David G | A National Sense of Self: Bella Abzug, Gay Community, and the Pursuit of Liberation, 1970-1976 |
| Omerovic, Asmin  | Regnum Sclavorum   |
| Young, Kenneth W | The Alexandria Experiment Cultural Application of Philosophical Theory                         |

#### Hydrology

| Author               | Thesis Title  |
|----------------------|---|
| Rosengarten, David W | Spatial and Temporal Variability of Nitrate Cycling in a New England Headwater Wetland and Stream |

#### Justice Studies

| Author              | Thesis Title  |
|---------------------|---|
| Arsenault, Elaine P | Who is Looking Out For You? Corrections Professionals' Perceptions of Mentoring Offenders in Jails  |
| Johnson, Melanie E  | A Call for Reform: The (In)effectiveness of Juvenile Transfer Laws  |
| Jutras, Saige E     | Bridging the Gap: Gemale college STalking Victims' Perceptions of Police Legitimacy and Police Reporting Behavior                           |
| Sylvia, Heather D   | Emotional Intelligence & Hostile Attributional Bias: An Examination of Social Skills and the Psychosocial Variables that Influence Bullying |

#### Liberal Studies

| Author            | Thesis Title   |
|-------------------|--|
| Davis, Gordon W   | From Hiroshima to Fukushima: The STRange Career of Japanese Nuclear Thinking                       |
| Place, Erika K    | Prisoners, Politics and Parliament: How Mary Tudor's Best Intentions Turned into Her Bloody Legacy |
| Woodward, Ellis A | Fifth World Fury   |

#### Materials Science

| Author        | Thesis Title   |
|---------------|--|
| Zhang, Xiaoyi | Syntheses of 6,13-Thiosubstituted Pentacene Derivatives and Their Related Polymers |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Mechanical Engineering

| Author                  | Thesis Title  |
|-------------------------|---|
| Cassidy, Garrett P      | Embedded Pressure and Accelerometer "Smart Rock" for Debris Flow Studies  |
| Couture, Daniel R       | Development of a Modular Application for Analyzing Observer-Based Control Systems for NASA's Spin-Stabilized MMS Mission Spacecraft |
| Dick, Christopher P     | The Ring Hoop Tension and the Ring Plane Strain Tension Tests for Measuring the Anisotropy of AL-6061-T4 Tubes                      |
| Giovinazzo, Michael D   | Characterization and Modeling of 3D Woven Composites  |
| Heaton, John L          | Utilizing an Extended Target for High Frequency Multi-Beam Sonar Intensity Calibration  |
| Knysh, Pavlo Yuriiovych | Explicit Method for Determining the Inelastic Heat Fraction (IHF) of Metals   |
| Underwood, Amy R        | Celestial Navigation-Based Controller Design for Extra-Terrestrial Surface Navigation   |
| Vyshenska, Kateryna     | Numerical and Experimental Studies of Mechanical Behavior and Cure Induced Stresses in 3D Woven Carbon/Epoxy Composites             |

#### Microbiology

| Author         | Thesis Title   |
|----------------|--|
| Baker, Ethan C | Molecular Response of Frankia sp. Strain QA3 to Naphthalene Stress |

#### NatRsrc:Environmental Consvrtn

| Author               | Thesis Title  |
|----------------------|---|
| Tomkiewicz, Jeremy P | Ecosystem-Based Governance in the Great Bay Watershed: Is a Regional Integrated Adaptable Approach Possible?  |
| Zuidema, Abby F      | Cutting Frequency as a Measure to Control Invasive Glossy Buckthorn ( <i>Frangula alnus</i> P. Mill.) and Facilitate Eastern White Pine ( <i>Pinus strobus</i> L.) Regeneration |

#### NatRsrc:Forestry

| Author                    | Thesis Title   |
|---------------------------|--|
| Gagnon, Michael T         | A Comparative Study of Reflectance Spectral Indices and Digital Camera Imagery to Quantify In-Vivo Foliar Chlorophyll Concentration in Common New England Forest Species |
| Hernandez-Hernandez, Adan | Effects of Nutrient Amendments on wAtEr Use and Water Use Efficiency in a Northeastern Forest Ecosystem  |





## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### NatRsrc:Soil&Water Rsrc Mgt

| Author               | Thesis Title  |
|----------------------|---|
| Diemer, Laura A      | Drivers of Nutrient Uptake Along a Fire Gradient in Boreal Streams of Central Siberia                                   |
| Shonka, Nicholas K   | Water Quality Sensors Provide Insight into the Suspended Solids Dynamics of High Flow Storm Events in the Lamprey River |
| Sullivan, Marleigh M | Groundwater Nitrogen Attenuation in Suburban and Urban Riparian Zones   |

#### NatRsrc:Water Resources

| Author        | Thesis Title  |
|---------------|---|
| Meyer, Anna D | Response of Ammonium Uptake to Carbon Availability in an Agriculturally Influenced First Order Stream |

#### NatRsrc:Wildlife

| Author          | Thesis Title  |
|-----------------|---|
| Reed, Gregory C | Bobcats in New Hampshire: Understanding the Relationships Between Habitat Suitability, Connectivity and Abundance in a Changing Landscape |

#### Natural Resources

| Author               | Thesis Title  |
|----------------------|---|
| Cianciola, Elisabeth | Evaluation of Macroalgae and Options for Macroalgal Monitoring in Great Bay Estuary, N.H.   |
| Williams, Justin P   | Remote Detection of Hemlock Woolly Adelgid Infestations in Southern New Hampshire and Maine |

#### Ocean Engr:Ocean Mapping

| Author           | Thesis Title   |
|------------------|--|
| Flinders, Ashton | Evaluation of Arctic Multibeam Sonar Data Quality Using Nadir Crossover Analysis and Compilation of a Full-Resolution Data Product |
| Jerram, Kevin W  | Split-Beam Echocounder Observations of Natural Methane Seep Variability in the Northern Gulf of Mexico                             |
| Miao, Dandan     | Gradual Generalization of Nautical Chart Contours with a B-Spline Snake Method   |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author           | Thesis Title  |
|------------------|---|
| Welton, Briana J | A Field Method for Backscatter Calibration Applied to NOAA's Reson 7125 Multibeam Echo-Sounders |

#### Plant Biology

| Author            | Thesis Title   |
|-------------------|--|
| Collie, Claire E  | Bench-Top Production of Baby Salad Greens in Greenhouses   |
| Gagne, Maegan Ann | Nitrogen Assimilation in Two Lines of Shrub Willow Fertilized With Different Forms of Nitrogen Through Foliar and Soil Application |
| Weiss, Bethany    | Floristic Comparisons of Forb Panne Vegetation in New Hampshire Salt Marshes   |

#### Political Science

| Author               | Thesis Title  |
|----------------------|---|
| Hutchinson, Thomas F | Lasting Aesthetic Impressions: The Appearance of Aisthesis and the Esoteric Philosophy of Leo Strauss   |
| Moyer, Chelsea L     | Environmental Factors as Conflict Multipliers in the Democratic Republic of the Congo: Consequences for Post-Conflict Peacebuilding   |
| Pierce, Daniel S     | At a (Midterm) Loss: Are Presidential Party Losses in U.S. House Midterm Elections Best Understood as Stand-Alone Referenda of Part of a Longer Electoral Cycle, or Some Combination of Both? |

#### Resource Administration & Mgmt

| Author          | Thesis Title   |
|-----------------|--|
| Pyburn, Maria L | Sustaining and Enhancing Local and Organic Agriculture: Assessing Consumer Issues in New Hampshire |

#### RMP:Recreation Admin

| Author              | Thesis Title   |
|---------------------|--|
| Griswold, Michael B | Exploring the Social Impacts of a Summer Camp for Youth with Tourette Syndrome |

#### Sociology

| Author | Thesis Title |
|--------|--------------|
|--------|--------------|



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author           | Thesis Title  |
|------------------|---|
| Farides, Julia J | A New Approach to Terrorism Research: A Multi- Theoretical Approach for a Multi-Dimensional Violent Crime |
| Kramer, Justin W | Metropolitan America: Crime in a Majority-Minority Environment  |

#### Writing

| Author                  | Thesis Title   |
|-------------------------|--|
| Ang, Ivan J S           | Book of Deans Vol. 1: Overmind and Underling           |
| Duffy, Jennifer A       | Turnstile: Essays                                      |
| Gerber, Aaron T         | Names of Strangers                                     |
| Greene, Lindsey R       | Staircase Wit  |
| Johann, Willa E         | After Avedonia   |
| Koriath, Anna M         | Province Road  |
| Mahoney, Patrick M      | Toward Being Infinite                                  |
| McKernan, Andrew D      | Summoning Erzulie                                      |
| Meerts-Brandsma, Lisa A | Soiled: Stories of People on Earth An Essay Collection |
| Noonan, John Paul       | Among the Dogs of Istanbul                             |
| Santora, Michael J      | Comfort Dogs   |
| Silverglad, Alison E    | The Women  |
| Sruoginis, Laima V      | Dual Citizenship                                       |
| Vesey, Jonathan David   | How to Breathe in Cleveland                            |

#### Zoology

| Author | Thesis Title |
|--------|--------------|
|--------|--------------|

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Cheng, Helen        | The Environmental Influences on American Horseshoe Crab ( <i>Limulus polyphemus</i> ) Behavior and Distribution in the Great Bay Estuary, New Hampshire U.S.A    |
| Enterline, Claire L | Understanding Spawning Behavior and Habitat Use by Anadromous Rainbow Smelt ( <i>Osmerus mordax</i> ) Using Passive Integrated Transponder Systems and Telemetry |

### Academic Year of Graduation: Fall 2012 to Summer 2013

#### Animal Sciences

| Author            | Thesis Title   |
|-------------------|--|
| Kinsman, Sarah E  | Keratin 8/18 Filaments: Potential Modulators of Death Signaling in Ovarian Granulosa Cells |
| Seneca, Megan Lee | Markers of Health Status in Pasture-Fed Versus Total Mixed Ration-Fed Jersey Dairy Cattle  |

#### Biochemistry

| Author             | Thesis Title  |
|--------------------|---|
| Giese, Gabrielle E | Patterns of Intron Loss and Gain in <i>Caenorhabditis</i> |

#### Chemical Engineering

| Author              | Thesis Title  |
|---------------------|---|
| Banfield, Ryan S    | Study of Electrocatalysis for Direct Alcohol Fuel Cells (DAFC)  |
| Elmoraghy, Marian L | Production of Bio-Jet Fuel from Microalgae  |
| Liu, Dongpin        | Potential Oscillation During Galvanostatic Copper Electrodeposition With a Leveler-Accelerant Additive System       |
| Yeager, Matthew P   | Pseudocapacitive K <sub>0.15</sub> MnO <sub>2</sub> Birnessite Nanosheets for Asymmetric Electrochemical Capacitors |

#### Chemistry

| Author                  | Thesis Title  |
|-------------------------|---|
| Ghidey, Amanuel Berhane | Synthesis of Adjacent-Bridged Benzo-Annulated Cyclam and Studies of Mono- and Di-Benzo-Annulated Cyclam Derivatives                             |
| Young, Andrew H         | Phase Partitioning of Soluble Trace Gases With Size-Resolved Aerosols in Near-Surface Continental Air Over Northern Colorado, USA During Winter |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Zhukovskiy, Mikhail | Theoretical Analysis of the Reaction of Peroxymethyl Radical with Atomic Hydrogen and of Dibenzofuran With Atomic Chlorine |

#### Civil Engineering

| Author                  | Thesis Title  |
|-------------------------|---|
| Getchell, Amy E         | Geotechnical Test Embankment on Soft Marine Clay in Newington-Dover, New Hampshire                                |
| Gordon, Mark R          | Evaluating the Adsorption and Desorption Kinetics of Suspended Ion Exchange (SIX) System                          |
| Hergott, Matthew August | Analysis of the Geomorphic Characteristics of Streams With Large Wood Hydraulic Controls in Coastal New Hampshire |
| Lowe, Justin K          | Evaluation of a New Construction Pavement Section Using the Mechanistic-Empirical Pavement Design Guide           |
| Mathiasson, Annika C    | Seismic Collapse Assessment of a 20-Story Steel Moment Resisting Frame Structure                                  |

#### Communication Sci & Disorders

| Author               | Thesis Title                                     |
|----------------------|--|
| Zrimsek, Christine E | The Writing of Students with Asperger's Syndrome |

#### Computer Science

| Author                | Thesis Title                                       |
|-----------------------|--|
| Carlin, Timothy J     | Implementation of an RDMA Verbs Driver for GridFTP |
| Hong, Zhengang        | 2D Unsteady Flow Visualization by Animating        |
| Sexton, Christopher W | Anytime Solving by Solution Refinement             |

#### CSD:EarlyChildIntervention

| Author             | Thesis Title   |
|--------------------|--|
| Hall, Kelsey Sarah | The Effect of Specific Professional Development on Speech-Language Pathologists' Perceptions of Their Knowledge, Skill and Confidence in Using the iPad as a Speech-Generating Device with Students Who Have Complex Communication Needs |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title  |
|-------------------|---|
| Szilagyi, Amber D | The Effect of a Speech-Generating iPad Application on the Communication Outcomes of Students Who Have Complex Communication Needs in Educational Settings: Three Case Studies |

#### Earth Sciences

| Author            | Thesis Title  |
|-------------------|---|
| Kurnianto, Sofyan | Modeling Long-Term Carbon Accumulation of Tropical Peat Swamp Forest Ecosystems |

#### Earth Sciences: Oceanography

| Author              | Thesis Title   |
|---------------------|--|
| Percuoco, Vincent P | Geochemistry and Release of Contaminants from Cohesive Sediments of the Great Bay Estuary, New Hampshire |

#### Electrical Engineering

| Author               | Thesis Title  |
|----------------------|---|
| Dean, Christopher G  | Interfacing With a Capacitance Based Strain Sensor for Use in CNC Milling Applications        |
| Levine, David R      | An Investigation on the Resonance Observed in a Spirally Shielded Twinaxial Differential Pair |
| McDonnell, William P | Intelligent Aerial Store & Forward Packet Repeater  |

#### History

| Author                | Thesis Title   |
|-----------------------|--|
| Perry, Sean C.        | Edward H. Durell, New Orleans Civic Reformer and Reconstruction Judge                                  |
| Rogers, James Richard | Preaching Unbelief: Freethought in Boston, 1825-1850   |
| Ruddell, Mahala       | Strangers in Their Own Native Land: Joseph Smith, Mormons, and the Orientalizing of an American People |

#### Hydrology

| Author        | Thesis Title   |
|---------------|--|
| King, Tyler V | Thermal Implications of Hydropeaking Activity in Regulated Arctic Rivers |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Justice Studies

| Author           | Thesis Title  |
|------------------|---|
| Burke, Emma J    | Protecting the Sanctity of Human Life: The Catholic Church & Her Relationship With HIV/AIDS Prevention                    |
| Perron, Susannah | Family Attachment, Family Conflict, and Delinquency in a Sample of Rural Youth  |
| Saito, Kei       | Masculinity and Sexual Violence: Comparison Between Japan and the United States   |
| Wing, Jonathan A | If it Bleeds it Leads: The Correlation Between the Consumption of Crime News Media and the Public's Fear of Violent Crime |

#### Math:Applied Math

| Author                          | Thesis Title  |
|---------------------------------|---|
| Schroth-Miller, Madeline Louise | A Statistical Analysis for Estimating Fish Number Density with the Use of a Multibeam Echosounder |

#### Mechanical Engineering

| Author                        | Thesis Title  |
|-------------------------------|---|
| Kilar, Patrick T              | Waste Heat Measurement and Recovery Options in an Investment Casting Process                                      |
| Koh, Minhyong                 | Identification of System Parameters for End Milling Force Simulation with Tool and Workpiece Compliance           |
| Kusch, Jordan M               | Two Axis Dilatometer Design and Preliminary Study of Epoxy Microcracking in 3D Carbon Fiber Woven Composites      |
| Morrill-Winter, Caleb Timothy | Scale Separation Effects on Mechanisms of Boundary Layer Turbulence   |
| Shaughnessy, Kyle F           | Theory and Evaluation of a Wireless Capacitive Strain Sensor at Ultra High Frequencies *UHF) for CNC Applications |
| Thibaudeau, Ethan H           | Development of Analytical and Experimental Tools for Magnetic Pulse Welding                                       |

#### Microbiology

| Author              | Thesis Title  |
|---------------------|---|
| Ferguson, Keith E   | Adaptation of a Pseudomonas Aeruginosa Population to a Biofilm Lifestyle: Why is Polyphosphate Kinase Important?  |
| Morrison, Eric Ward | Effects of Nitrogen Fertilization on Fungal Community Structure in a Temperate Hardwood Forest: Implicit Links Between Structure, Function and Resilience |
| Staples, Rachel K   | The Distribution of Direct and Indirect Fitness Effects of Beneficial Mutations   |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author       | Thesis Title   |
|--------------|--|
| Sun, Jeffrey | Development of Alternative Host Models to Assess Virulence Potential of <i>Vibrio Parahaemolyticus</i> |

#### NatRsrc:Environmental Consvrtn

| Author             | Thesis Title   |
|--------------------|--|
| Bayley, Holly K    | The Role of Eelgrass ( <i>Zostera marina</i> L.) Source Population Characteristics in Resilience to Stress and Restoration Success           |
| Jennings, Katie A. | Response of Tree Growth and WATER Use Efficiency to Climate and Nitrogen Deposition in a Temperate Deciduous Forest in the Northeastern U.S. |

#### NatRsrc:Forestry

| Author                  | Thesis Title  |
|-------------------------|---|
| Champoux, Robert J      | Evaluating Airborne Laser Data on Steeply Sloping Terrain   |
| Kilham, Daniel W        | Balancing Ecological and Economic Values in Northern Hardwood Stands: What Are the Trade-offs?                    |
| Simmons, Michael John   | The Individual Tree and Forest Stand Level Impacts of Winter Moth Defoliation in Eastern Massachusetts, USA       |
| Sinacore, Katherine Ann | Toward Understanding the Economic and Ecological Outcomes of Selection Silviculture on a Northern Hardwood Forest |

#### NatRsrc:Water Resources

| Author           | Thesis Title   |
|------------------|--|
| Baillio, Jason P | Controls on Variability of Dissolved Greenhouse Gas Concentration and Emissions from Small Streams in Southeastern New Hampshire |
| Parham, Lucy M   | Spatial and Temporal Variation in Degradation of Dissolved Organic Carbon on the Main Stem of the Lamprey River                  |

#### NatRsrc:Wildlife

| Author           | Thesis Title  |
|------------------|---|
| Comeau, Jaclyn V | Assessing the Efficacy of Wildlife Ordinances as a Management Tool for Reducing Human-Bear Conflicts in New Hampshire |
| Fortin, Nicholas | Productivity and Physical condition of White-Tailed Deer in New Hampshire   |
| Smith, Wesley E  | Assessing Translocation of Nu9isance and Rehabilitation of Orphan Black Bears in New Hampshire                        |





## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### NatRsrc:Wildlife&Cons Biology

| Author             | Thesis Title  |
|--------------------|---|
| Andreozzi, Haley A | Ecology and Management of Moose in Northern New England   |
| Karedes, Angela    | Multi-Scale Analysis of Northern Goshawk ( <i>Accipiter Gentilis</i> ) Breeding Habitat in New Hampshire            |
| Siren, Alexej      | Population Ecology of American Marten in New Hampshire<br>Impact of Wind Farm Development in High Elevation Habitat |

#### Natural Resources

| Author                | Thesis Title  |
|-----------------------|---|
| Keeley, Christopher H | Preparing for Climate Change in Three New England Coastal Communities: Lessons on Motivations, Approaches, and Outcomes |

#### Ocean Engr:Ocean Mapping

| Author              | Thesis Title   |
|---------------------|--|
| Azuike, Chukwuma    | A Two-part Process for Assessing the Adequacy of Hydrographic Surveys and Nautical Chart Coverage  |
| Cezairli, Yunus Can | Hydrographic and Oceanographic Measurements for a Hydrokinetic Power Farm in Dardanelles, Turkey and Suggested System for Power Generation |
| Masetti, Giuseppe   | A Geo-Database for Potentially Polluting Marine Sites and Associated Risk Index  |

#### Physics

| Author              | Thesis Title  |
|---------------------|---|
| Rousseau, Marissa L | Energy Resolution Analysis of a Domestic Neutron Imager |

#### Plant Biology

| Author                        | Thesis Title  |
|-------------------------------|---|
| Boraks, Andre Alexander Willy | Viability of Butternut ( <i>Juglans Cinera</i> L.) in the Northeastern United States: An Assessment of the Genetic Diversity, Health, Hybridization and Recruitment of Butternut in the Northeast |
| Hodgdon, Elisabeth A          | Use of cover Crops for Weed Suppression and Nutrient Capture  |

#### Political Science



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author           | Thesis Title  |
|------------------|---|
| Cole, Michael J  | Iran, Sanctions, and Nuclear Proliferation: In Search of a Strategic Alternative      |
| McKinley, Sean P | Run For Your Life: Spectacle Primaries and the Success of 'Failed' Primary Candidates |

#### RMP:Recreation Admin

| Author          | Thesis Title  |
|-----------------|---|
| Pitas, Nicholas | Exploring the Parent-Coach and Child-Athlete Relationship in the Recreational Sport Context |

#### Sociology

| Author                    | Thesis Title  |
|---------------------------|---|
| Bulgar-Medina, Justine A  | The Association Between Sexual Orientation and Labor Market Outcomes      |
| Staunton, Michael Sheldon | Socioeconomic Status, Mastery, and Goal-Striving Stress Among Rural Youth |

#### Writing

| Author              | Thesis Title                           |
|---------------------|--|
| Bubar, John H       | Backcut                                |
| Dewhurst, Tracey L  | Hy-Ho Soda                             |
| Earp, Ambre F       | Matryoshka Doll A Collection of Essays |
| Falvey, Janet E     | Off the Rhumb Line                     |
| Loux, Peter R       | Occupation                             |
| Martin, Dustin S    | Holding Up: Stories                    |
| Paltrineri, Marc L  | A Little Nothing                       |
| Phinney, Jonathan R | You Don't Know Me and Other Stories    |

#### Zoology

| Author | Thesis Title |
|--------|--------------|
|--------|--------------|

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                   | Thesis Title  |
|--------------------------|---|
| Bailey, David S          | Characterizing Winter Flounder ( <i>Pseudopleuronectes americanus</i> ) Nursery Areas Using Otolith Microstructure and Microchemical Techniques |
| Day, Helen               | Predation as a Vehicle to Aid Tunicate Invasion in the Biofouling Community   |
| Maxwell, Sean J          | Distribution of <i>Mysis Diluviana</i> in Nearshore Lake Ontario  |
| Wells, Christopher David | The Failed Introduction of the Sea Anemone <i>Sagarita Elegans</i> in Salem Harbor, Massachusetts   |

### Academic Year of Graduation: Fall 2011 to Summer 2012

#### Biochemistry

| Author    | Thesis Title  |
|-----------|---|
| Huo, Ying | Detection of Trehalose in <i>Porphyra</i> Extracts Using Mass Spectrometry and Gas Chromatography-Mass Spectrometry |

#### Chemical Engineering

| Author        | Thesis Title   |
|---------------|--|
| Buessing, Li  | Energy from Olive Mill Waste: Pyrolysis and Oxidation Kinetics of Olive Mill Waste                               |
| Chai, Jingwen | Multi-Protein Detection of Endothelial Cell Inflammation and Single Cells' Heterogeneity Study                   |
| Deng, Ye      | Transesterification of Waste Vegetable Oil By <i>Thermomyces Lanuginosus</i> Lipase Immobilized on Zeolite ZSM-5 |

#### Chemistry

| Author               | Thesis Title   |
|----------------------|--|
| Chan, Julia Y K      | Synthesis of 6-Thiosubstituted Pentacenes and Study of an Unexpected Photorearrangement of 6-Phenylthiopentacene Dimer |
| McLaughlin, Erin C   | The Road Less Traveled: New Chemistry of Old Reactive Intermediates  |
| Sliter, Brian Thomas | The Site of Protonation of a Distorted Bicyclic Lactam: Nitrogen vs. Oxygen  |

#### Civil Engineering

| Author | Thesis Title |
|--------|--------------|
|--------|--------------|



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                    | Thesis Title   |
|---------------------------|--|
| Bogosh, Michaela Lane     | Comparing the Sustainability of Two Surface Water Treatment Alternatives Using Life Cycle Assessment (LCA)   |
| Chinburg, Noah Steven     | Evaluating the Material Properties of Building Derived Aggregate Using Laboratory Testing Methods  |
| Curry, Michael Andrew     | 1,4 Dioxane Removal From Groundwater Using Point-of-Entry Water Treatment Techniques   |
| Elwardany, Michael Dawoud | Performance of Plant Produced HMA Mixtures With High RAP Content in Terms of Low Temperature Cracking, Fatigue Cracking, and Moisture Induced Damage |
| Emerson, Nicolas Brian    | Simplified Casualty and Building Seismic Damage Assessment Considering Seasonal Effects in New Hampshire   |
| Gaylord, David Damien     | Considerations for Implementing and Researching a Strain Based Structural Health Monitoring System on an In-Service Bridge                           |
| Little, Nathan Hughes     | Assessing Innovative Zero-Valent Iron Separation Processes in an Arsenic Treatment Scheme  |
| Meagher, William C        | A Methodology for Evaluating the Implications of Climate Change on the Design and Performance of Flexible Pavements                                  |
| Peddle, Jason Thomas      | Digital Image Correlation as a Tool for Bridge Load Rating and Long-Term Evaluation  |
| Scholz, Ann M             | Consequences of Changing Climate and Land Use to 100-Year Flooding in the Lamprey River Watershed of New Hampshire                                   |
| Tarbox, Sean J            | Effects of Long Term Oven Aging on Rap Mixtures  |
| Zwerneman, John M         | Investigating the Effect of System Pressure on Trihalomethane Post-Treatment Diffused Aeration   |

#### Communication Sci & Disorders

| Author        | Thesis Title  |
|---------------|---|
| Rocke, Maya R | A Phenomenological Study of Military Veterans With Combat Trauma Enrolled in Post-Secondary Education: Transition, Academic Performance, and Perceptions of Support |

#### Computer Science

| Author             | Thesis Title   |
|--------------------|--|
| Albere, Brian J    | Genotyping on Custom Arrays Using a Parallel Data Pipeline |
| Cannon, Jarad John | Robot Motion Planning Using Real-Time Heuristic Search     |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                 | Thesis Title  |
|------------------------|---|
| Fogal, Thomas John     | Parallel Volume Rendering for Large Scientific Data             |
| Jackson, James David   | The Accessibility and Scalability of Gene Family Analysis       |
| Leighton, Michael John | Faster Optimal and Suboptimal Hierarchical Search               |
| Pilar, David HF        | Visualizing Magnitude and Direction in Flow Fields              |
| Rose, Kevin J          | Real-Time Sampling-Based Motion Planning With Dynamic Obstacles |

#### Early Childhood:Special Needs

| Author            | Thesis Title   |
|-------------------|--|
| Fanning, Leslie C | Symptom Presentation of Pediatric Bipolar and Related Disorderse in Children A Descriptive Study to Improve Educational Understanding and Supports |

#### Earth Sciences

| Author            | Thesis Title   |
|-------------------|--|
| Hanley, Kevin W   | Dissolved Organic Carbon Quantity and Quality in North American Rivers and Streams |
| Steele, Kaitlyn J | Hydrogen Dynamics in Soil in Northern Boreal and Subarctic Sweden                  |

#### Earth Sciences: Geology

| Author                  | Thesis Title   |
|-------------------------|--|
| Carroll, Abigail Rachel | Paleobiological and Paleoclimatological Significance of Stable Isotope Patterns Across Early Eocene Hyracotherium Tooth Rows |
| Cassotto, Ryan          | Implications of Changing Winter Fjord Ice Melanges for Greenland Outlet Glacier Dynamics                                     |

#### Earth Sciences:Ocean Mapping

| Author              | Thesis Title  |
|---------------------|---|
| Abramova, Anastasia | Comparison and Evaluation of Global Publicly Available Bathymetry Grids in the Arctic |

#### Earth Sciences: Oceanography



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author               | Thesis Title  |
|----------------------|---|
| Barner, Alison K     | Investigation of Chromophoric Dissolved Organic Matter as a Freshwater Tracer in the Kennebec River Estuary |
| De Meo, Olivia       | Studies of Net Community Productivity in a Near-Coastal Temperate Ecosystem                                 |
| Schulenberg, Sarah A | Reconstructing the Variability in the Indian Monsoon From the Last Glacial Period to Present                |

#### Electrical Engineering

| Author                   | Thesis Title  |
|--------------------------|---|
| Chinnaswamy, Krithikha   | Climate Change Impact on Reliability of Large Electric Power Transformers in the Northeast United States            |
| Waters, Jonathan Richard | Unconstrained Noninvasive Vital Signs Monitoring for Detection of Obstructive Sleep Apnea With Automated Prevention |

#### Family Studies

| Author                  | Thesis Title   |
|-------------------------|--|
| Andrew, Laura Elizabeth | How Rural Low-Income Mothers Use Resources to Work Non-Standard Schedules  |
| Meub, William W         | New Media Use and Rural Youth Substance Use  |
| Royea, Amber J          | Effects of New Hampshire's Same-Sex Marriage Legislation on Married Same-Sex Couples and Their Families: A Preliminary Study |
| Thyng, Pamela Becker    | The Needs of Rural Homeless Families in Grafton County, New Hampshire: A Qualitative Inquiry                                 |

#### History

| Author            | Thesis Title  |
|-------------------|---|
| Crean, Laura J    | Had Feminists Only Thought of Food: Men's and Women's Relationship with Food, 1963-1981               |
| Nedervelt, Ross M | A Tumultuous Upheaval and Transformation: The Impact of the American Revolution on the Bahama Islands |

#### Justice Studies

| Author             | Thesis Title  |
|--------------------|---|
| Phelan, Lindsey R. | A New Model of Procedural Justice: Legal Legitimacy, Legal Cynicism, and Satisfaction With Government Officials |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author         | Thesis Title                      |
|----------------|-----------------------------------|
| Wefers, Mark L | Rape in Prison: A Hidden Epidemic |

#### Liberal Studies

| Author                | Thesis Title   |
|-----------------------|--|
| Britton, Kathleen Ann | REAL-ATIONSHIPS An Educational Philosophy Advocating for an Increased Effort Towards Authentic Teacher-Student Realtionshops |
| Messa, Stephen M      | Digitally Enhanced: Adorno for the 21st Century  |
| Rodrigues, Carla M    | Undergraduate Latinas' Self-Definition of Academic Success   |

#### Mechanical Engineering

| Author               | Thesis Title   |
|----------------------|--|
| Beckman, Pieter Jere | Factors Impacting the Sensitivity and Resolution of a Tungsten Trioxide Based Gas Sensor           |
| Bray, Justin Patrick | Investigation of Variables for Wireless Capacitive Strain Sensing on a CNC Mill                    |
| Harmon, Andrew J     | Calibration and Characterization of a Low-Cost Wireless Sensor for Applications in CNC End Milling |
| Zhao, Yong           | Comparison of Methods for On-line Calibration of Cutting Force Models in End Milling               |

#### Microbiology

| Author               | Thesis Title  |
|----------------------|---|
| Chapman, Christine A | Identification and Characterization of Photorhabdus Temperata Mutants Altered in Hemolysis and Virulence                          |
| Felix, Cintia R      | Identification and Characterization of Photorhabdus Temperata Mutants Altered in Cell Surface and Symbiosis                       |
| Traverse, Charles C  | Evolutionary Genomics and Ecological Interactions of Biofilm Adaptation   |
| Yu, Jong Whan        | Incidence, Abundance, Postharvest Processing and Population Diversity of Pathogenic Vibrios in Oysters From the Great Bay Estuary |

#### NatRsrc:Environmental Consvrtn

| Author | Thesis Title |
|--------|--------------|
|--------|--------------|



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                  | Thesis Title  |
|-------------------------|---|
| Campbell, Michael James | An Empirical Study of Image Processing Methods for Land Cover Classification and Forest Cover Change Detection in Northeastern Oregon's Timber Resource-Dependent Communities (1986-2011) |
| Frey, Andrea            | A Quantitative Evaluation of Cellular Changes During Fusion Events in the Colonial Ascidians <i>Polyclinum Constellatum</i> and <i>Didemnum Vexillum</i> (Tunicata)                       |
| Herrick, Shawn C        | Modeling Least-Impact ATV Trails in Berlin, NH With Established Fine-Grained Evaluation Criteria (RSA 215-A:43)   |

#### NatRsrc:Forestry

| Author           | Thesis Title  |
|------------------|---|
| Roxby, Gabriel E | Effects of Whole-Tree Harvesting on Site Productivity and Species Composition of a Northern Hardwood Forest |

#### NatRsrc:Wildlife

| Author             | Thesis Title   |
|--------------------|--|
| Broman, Derek JA   | A Comparison of Bobcat ( <i>Lynx Rufus</i> ) Habitat Suitability Models Derived from Radio Telemetry and Incidental Observations |
| Brubaker, Daniel R | Monitoring Occupancy and Abundance of New England Cottontails Using Non-Invasive Genetic Tools                                   |

#### Natural Resources

| Author               | Thesis Title   |
|----------------------|--|
| Burnham, Katharine M | Saprotrophic Fungi as a Mechanism for Vertical Nitrogen Transport in a Chronically Fertilized Northern Hardwood Forest |
| Dinc, Musa           | Throughfall Chemistry in Deciduous and Coniferous Forest Stands at Thompson Farm, New Hampshire                        |
| Herrick, Christina   | Object-Based Image Analysis for Forest-Type Mapping in New Hampshire   |
| Hope, Amanda         | Ecosystem Structure and Function in an Urban, Piped Stream   |
| Hussain, Sana Batool | Optimized Identification of Fecal Pollution Sources in a Rural Tidal Watershed in Coastal New Hampshire                |
| Maynard, Daniel S    | An Investigatiotn of Two Methods for Assessing the Vertical Structure of Forest Stands                                 |
| Meacham, Samuel S    | Unsing Landsat 5 TM Data to Identify and Map Areas of Mangrove in Tulum, Quintana Roo, Mexico                          |





## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Nutritional Science

| Author             | Thesis Title   |
|--------------------|--|
| Beliveau, Amy Rose | Variations in Carotenoids and Retinol in Milk and Cheese From Jersey Cows at an Organic Dairy Compared to a Conventional Dairy Over a Pasture Season |

#### Ocean Engineering

| Author               | Thesis Title   |
|----------------------|--|
| Lanzoni, Jose Carlos | Field Calibration Methodology for a Multibeam Echo Sounder Using a Split Beam Sonar System and a Standard Target |
| Wang, Xinwei         | A Submerged Ocean Wave Energy Converter  |

#### Ocean Engr:Ocean Mapping

| Author         | Thesis Title                              |
|----------------|---|
| Denney, Sean O | A tidal Study of Great Bay, New Hampshire |

#### Plant Biology

| Author           | Thesis Title  |
|------------------|---|
| Ding, Xin        | The Effect of Superman, Agamous, and ACS-7 Gene Manipulations on Sex Determination in Transgenic <i>Fragaria Vesca</i> 'Hawaii-4' |
| Kras, Lauren A   | The Status of Five State-Listed Tidal Plant Species in New Hampshire With Emphasis on Potential Impacts of Sea Level Rise         |
| Uretsky, Jacob B | Development and Evaluation of Interspecific <i>Cucurbita Maxima</i> X <i>Cucurbita Moschata</i> Hybrids for Processing Squash     |

#### Political Science

| Author             | Thesis Title   |
|--------------------|--|
| Azem, Zachary S    | Consequences of a Separatist Platform? The Rise and Fall of the Bloc Quebecois                                   |
| Coker, Matthew C   | Under Supreme Court Review: An Evaluation of the United States Court of Appeals for the Ninth Circuit, 1994-2005 |
| Smith, Andrew Ryan | Belling the Cat: The Neo-Taliban Insurgency in Afghanistan   |

#### Resource Administration & Mgmt



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author          | Thesis Title  |
|-----------------|---|
| Losonci, Ildiko | Valuation of Ecosystem Services: The Case of Orseg National Park, Hungary |

#### Sociology

| Author            | Thesis Title   |
|-------------------|--|
| Benson, Rebecca E | Internet Use and Sense of Community Among Rural Adolescents                    |
| Yearwood, Emily L | The Bi-Directional Relationship Between Juvenile Delinquency and Victimization |

#### Writing

| Author               | Thesis Title                                   |
|----------------------|--|
| Booth, Andrew K      | Paper Llife                                    |
| Bradley, Emily D     | Into the Light: A Memoir of Learning to Let Go |
| Brown, Craig Robert  | Tiny Amounts of Humor, Angst and Melodrama     |
| Campbell, Duncan     | The River and The Burning Field                |
| Clow, Laurent G      | Open and Shut                                  |
| Denning, Ian         | The House That Griffey Built                   |
| Feldman, Jessica C   | Bush Dog                                       |
| Gilmore, Keith A     | Abandoned Monsters                             |
| Johnston, Robert A   | Straight to Vinyl                              |
| Schulte, Alan B      | Wait 'Til Your Father Comes Home               |
| Shimulunas, Lauren A | How You Will Know it is Blind                  |
| Steinberg, Alexa R   | I Wish I Was There Too                         |
| Stratton, William J  | Beneath The Water Was Stone                    |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title             |
|-----------------------|--------------------------|
| Sumner, Christopher D | What You Know About Love |
| Thompson, Victoria L  | The Noticeables          |

#### Zoology

| Author                | Thesis Title   |
|-----------------------|--|
| Brown, Ryan Thomas    | Cryopreservation, Spermination Induction and Computer Assisted Analysis of Summer Flounder ( <i>Paralichthys Dentatus</i> ) Spermatozoa                          |
| Clapp, Amanda R       | Hemoglobin Type, Egg Buoyancy, and Antifreeze Glycoprotein Production as Mechanisms for Adaptive Variation in Gulf of Maine Atlantic Cod ( <i>Gadus Morhua</i> ) |
| Clark, Abigail Susan  | A comparison of Standard and Ventless American Lobster Trap Dynamics   |
| Dubofsky, Elizabeth A | Activity Rythms Expressed by Juvenile American Horseshoe Crabs, <i>Limulus Polyphemus</i>  |
| Goodnight, Seth W     | Field and Laboratory Observations of Two Gulf of Maine Sacoglossans  |
| McCuller, Megan I     | The Influence of Abiotic and Biotic Factors on Two Nudibranchs Feeding Upon <i>Membranipora Membranacea</i> in the Southern Gulf of Maine                        |

### Academic Year of Graduation: Fall 2010 to Summer 2011

#### Animal Sciences

| Author                     | Thesis Title   |
|----------------------------|--|
| Cabral, Rosemarie          | Addition of Varying Amounts of Sodium Bicarbonate to Colostrum Replacer: Effects on IgG Absorption, Serum Bicarbonate, and Hematocrit in Neonatal Calves |
| Chapman, Colleen Elizabeth | Addition of Sodium Bicarbonate to Colostrum: Effects on IgG Absorption and Hematocrit in Neonatal Calves   |
| Talbot, Scott J            | An In Vitro Technique to Estimate Digestibility of Amino Acids in Dairy Cattle   |

#### Biochemistry

| Author              | Thesis Title   |
|---------------------|--|
| Gitschier, Hannah J | Regulation of Photoreceptor Phosphodiesterase by Prenyl Binding Protein and by Other Interacting Proteins in Photoreceptor Cells |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Chemical Engineering

| Author               | Thesis Title   |
|----------------------|--|
| Iuliucci, Joseph Leo | Electrical Properties of Growing Porous Anodic Aluminum Oxide Films      |
| Jia, Xiaoxiong       | Synthesis of Cadmium Selenide-Gold Hybrid Nanorods                       |
| Li, Weihua           | Buoyancy-Driven Motion of Bubbles in the Presence of Soluble Surfactants |

#### Chemistry

| Author                    | Thesis Title  |
|---------------------------|---|
| Ajaz, Aida                | High Energy Routes to Reactive Intermediates: Computational and Experimental Studies              |
| Berezutskiy, Gennadiy N   | A Model Study of Adlayer Pattern Formation of a Linear Molecule on Square and Triangular Lattices |
| Garcia-Cardona, Elizabeth | Synthesis of 1,4,7-Triazacyclononane Pendant-Armed Chelators and their Metal Complexes            |
| Hart, Andrew H            | Building and Deployment of an Automated, In Situ Greenhouse Gas Gas Chromatographic System        |
| Wang, Han                 | Trivalent Metal Complexation of Pendant-Armed Cross-Bridged Cyclams                               |

#### Civil Engineering

| Author                | Thesis Title  |
|-----------------------|---|
| Anderson, Evan D      | Long Term Performance of High Rap Sections -Case Studies  |
| Anderson, John        | A Comparative Study of Reactive Caps for Polycyclic Aromatic Hydrocarbons in Sediment                             |
| Blomeke, Amy C        | Determination of Hydraulic Conductivity Using the Permeafor   |
| Farrin, Cris-Hawk     | Cold Weather Concreting   |
| Foxlow, Jennifer J    | Performance Evaluations of HMA Containing Reclaimed Asphalt Pavement and Reclaimed Asphalt Shingles               |
| Furatian, Laith       | The Effect of Suspended Solids During UV/H <sub>2</sub> O <sub>2</sub> Advanced Oxidation of Municipal Wastewater |
| Goldstein, Courtney M | Regional Harmonization Procedure for Prioritization of Recycled Material Specifications                           |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author               | Thesis Title   |
|----------------------|--|
| Hargy, James A       | Measuring Residual Strength of Liquefied Soil With the Ring Shear Device   |
| Nogaj, Ireneusz Mark | Sensitivity Analyses of Flexible Pavement Performance in VT, NY and MA using the Mechanistic-Empirical Pavement Design Guide |
| Steele, Matthew L.   | Sensor Installation for the Local Calibration of the Mechanistic Empirical Pavement Design Guide in New Hampshire            |
| Welch, John A.       | Development of a Structural Parameter Estimation Program for Finite Element Model Updating                                   |

#### Computer Science

| Author                | Thesis Title   |
|-----------------------|--|
| Dionne, Austin Joseph | Heuristic Search Under a Deadline  |
| Karell, Michael J.    | Mobile Undersea Routing Protocol   |
| Larsen, Bradford J    | Compiling an Array Language to a Graphics Processor  |
| Zarick, Ryan Andrew   | The Impact of Network Latency on the Synchronization of Real-World IEEE 1588-2008 Devices Using 1588 and non-1588 Aware Switches |

#### Counseling

| Author              | Thesis Title   |
|---------------------|--|
| DePasquale, Chad E  | Net Resiliency: A Study of Risk and Protective Factors in Single and Two-Parent Families |
| Edwards, Courtney J | A Mentor Training Module Designed to Build Resiliency for Homeless Emerging Adults       |

#### Earth Sciences

| Author             | Thesis Title  |
|--------------------|---|
| Noyce, Genevieve L | Effect of Carex Rostrata Removal on CH <sub>4</sub> Emissions From a Temperate Peatland |

#### Earth Sciences: Geology

| Author               | Thesis Title  |
|----------------------|---|
| Batchelder, Julianne | Paleomagnetism of the Kittery Formation: A Record of Tectonism and Rotation |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Earth Sciences: Ocean Mapping

| Author          | Thesis Title  |
|-----------------|---|
| Kuenzel, Nicole | Quantitative Morphological Analysis of Submarine Canyon-Channel Systems on the U.S. Atlantic Continental Margin |

#### Earth Sciences: Oceanography

| Author                 | Thesis Title  |
|------------------------|---|
| Christensen, Michael K | The Frequency and Cause of Shallow Winter Mixed Layers in the Gulf of Maine |

#### Electrical Engineering

| Author                | Thesis Title  |
|-----------------------|---|
| Farrar, Michael A.    | Using Voice to Tag Digital Photographs on the Spot            |
| Foley, Matthew Joseph | Control of a Large Scale Wind Turbine Utilizing a Fluid Drive |

#### Family Studies

| Author             | Thesis Title                               |
|--------------------|--|
| Cohen, Taylor Deva | The Foster Parent Experience of Attachment |

#### Genetics

| Author               | Thesis Title  |
|----------------------|---|
| Kaplan, Ulkucan      | Phenotypic Characterization of Palmitoyltransferase Mutants of Arabidopsis Thaliana |
| Orcheski, Benjamin B | The Genetics of Sex Determination in Fragaria Virginiana: A Candidate Gene Approach |
| Thompson, Megan M    | Analysis of Arabidopsis Thaliana Protein Phosphatase 2A C Subunit Expression        |

#### History

| Author                     | Thesis Title  |
|----------------------------|---|
| Bratten, Jonathan          | War for the Soul of Empire: Colonial British Protestants in the French and Indian War, 1754-1763. |
| McCaughey, Brendan Michael | The big Book & The Sword: A Study of Native American Disappointment With White Morality           |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author           | Thesis Title  |
|------------------|---|
| Pirelli, Shawn E | Vital Allies: The Colonial Militia's Use of Indians in King Philip's War, 1675-1676 |
| Winters, Terri S | Toward an Environmental Conservatism  |
| York, Carole A.  | Western Maine Saints: The First Mormons of Western Maine 1830-1890                  |

#### Hydrology

| Author           | Thesis Title   |
|------------------|--|
| Zuidema, Shantar | Identifying Groundwater Contributions to Baseflow in a Temperate Headwater Catchment |

#### Justice Studies

| Author          | Thesis Title                                       |
|-----------------|--|
| Giardina, Brian | Capital Punishment and Specific Offense Deterrence |

#### Liberal Studies

| Author              | Thesis Title  |
|---------------------|---|
| Clark, Geoffrey E   | Arctic Ambitions The Photographs of the Lady Franklin Bay Expedition of 1881-1884 George W. Rice Photographer |
| Duprez, Robert Noel | Islamic Perspectives on the Crusades: Past and Present  |

#### Math:Applied Math

| Author            | Thesis Title   |
|-------------------|--|
| Bozzuto, Lisa Ann | Mathematical Analysis of Blood Flow Model Through Channels with Flexible Walls |

#### Mechanical Engineering

| Author             | Thesis Title   |
|--------------------|--|
| Bachant, Peter     | Experimental Investigation of Helical Cross-Flow Axis Hydrokinetic Turbines, Including Effects of Waves and Turbulence |
| Bamberger, Marc R  | On the Downstream Evolution of the Mean Momentum Field in Turbulent Shear Wake Flows                                   |
| Campbell, Carin P. | Deep Ocean Delivery System   |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                          | Thesis Title  |
|---------------------------------|---|
| Eren, Firat                     | The Effect of Cutting Force Model Coefficient Variability on Process Planning in Milling  |
| Harding, Matthew J              | Design and Development of a Debris Flow Tracking "Smart Rock"   |
| Jenkins, Benjamin M             | Accelerometer Calibration for NASA's Magnetospheric Multiscale Mission Spacecraft   |
| Johnston, Alex James            | Analytical and Numerical Modeling of Performance Characteristics of Cross-Flow Hydrokinetic Turbines  |
| Li, Ke                          | Langmuir Circulation in the Presence of Lateral Density Gradients   |
| Nangle, Danielle D              | A Two-Dimensional Hexagonal Network Model of Alveolar Mechanics   |
| Parkhi, Anjali                  | An Experimental and Analytical Study of the Mechanism of Material Modification When a Bias is Applied Between AFM Tip and Gold and Highly Oriented Pyrolytic Graphite |
| Timoshchuk, Nikolay Viktorovich | On the Ability of Indentation to Capture the Anisotropic Elastic Properties of the Pyrolytic Carbon   |
| VanBenthysen, Reid              | Investigation of Microscale Electromagnetic Forming   |

#### Microbiology

| Author                  | Thesis Title  |
|-------------------------|---|
| Beauchemin, Nicholas J  | Discovering Signaling Events in the Actinorhizal Symbiosis  |
| Flynn, Kenneth M        | Interactions Between Adaptive Mutations in the Environment and the Consequences for Adaptation in Escherichia Coli                  |
| Schuster, Brian Michael | Microbial Interactions with Oysters from the Great Bay Estuary: Characterization of Endemic Vibrio cholerae and Oyster Metagenetics |

#### NatRsrc:Environmental Consvrtn

| Author            | Thesis Title  |
|-------------------|---|
| Farrell, Jillan S | Outreach and Citizen Engagement in the Winnicut River Watershed: A Participatory Action Study |
| Storch, Laura     | Nonlinear Evaluation of Stock Assessment and Marine Ecosystem Models                          |

#### NatRsrc:Forestry

| Author | Thesis Title |
|--------|--------------|
|--------|--------------|



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author               | Thesis Title   |
|----------------------|--|
| Dubois, Garret D.    | Evaluation of Post Harvest Conditions Contributing to Attacks by the Red Turpentine Beetle, <i>Dendroctonus Valens</i> Leconte at the Massabesic Experimental Forest in Southern Maine |
| Sullivan, Franklin B | Interrelations Among Leaf and Canopy Nitrogen, Optical and Structural Traits   |

#### NatRsrc:Water Resources

| Author         | Thesis Title   |
|----------------|--|
| Mora, Jordan W | The Effects of Historic Earthen Barriers on Northern New England Tidal Marshes |

#### NatRsrc:Wildlife

| Author                         | Thesis Title  |
|--------------------------------|---|
| Bergeron, Daniel H             | Assessing Relationships of Moose Populations, Winter Ticks, and Forest Regeneration in Northern New Hampshire |
| Gabrielsen, Charlotte Graziano | Effects of Habitat Fragmentation and Water Quality on Wood Frog Population Genetic Structure in Vernal Pools  |
| Weidman, Toni L                | An Evaluation of Supplemental Food to Increase Winter Survival of Cottontail Rabbits                          |

#### Natural Resources

| Author                  | Thesis Title   |
|-------------------------|--|
| Green, Ashley Victoria  | Herbage Mass Accumulation in an Intensive Rotational Grazing System at UNH's Organic Dairy Research Facility |
| MacLean, Richard Graham | Abiotic Immobilization of Nitrate in Forest Soil: A Double Label Approach                                    |
| Morse, Nathaniel B      | Impacts of Suburbanization on Food Web Stoichiometry of Detritus-Based Streams                               |
| Rudko, Alexis M.        | An Evaluation of Habitat Models for the Common Loon ( <i>Gavia immer</i> )                                   |

#### Nutritional Science

| Author               | Thesis Title   |
|----------------------|--|
| Nash, Jessica Taylor | The Effect of In Vivo PBDE Treatment on Hepatic Phosphoenolpyruvate Carboxykinase (PEPCK) Enzyme Kinetics in Male Wistar Rats          |
| Pearlman, Suzanne L  | Genes Differentially Expressed at 1 Day, 6 Weeks, and 6 Months of Age in Aortas of Spontaneously Atherosclerotic White Carneau Pigeons |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Occupational Therapy

| Author               | Thesis Title  |
|----------------------|---|
| Schreiber, Noelle C. | The Impact of Sensory Stimuli on the Stress Response of Children with Autism Spectrum Disorders |

#### Ocean Engineering

| Author                    | Thesis Title   |
|---------------------------|--|
| Margelowsky, Gary R       | Numerical Simulations of Combined Wave-Current Bottom Boundary Layers        |
| Rodriguez-Abudo, Sylvia B | Characterization of the Wave Bottom Boundary Layer Over movable Rippled Beds |

#### Ocean Engr:Ocean Mapping

| Author              | Thesis Title                               |
|---------------------|--|
| Greenaway, Samuel F | Linearity Tests of a Multibeam Echosounder |

#### Physics

| Author                  | Thesis Title  |
|-------------------------|---|
| Harris, Brendan Stewart | Observational Aspects of IMF Draping Around the Magnetosphere |

#### Plant Biology

| Author          | Thesis Title  |
|-----------------|---|
| Hadadian, Zahra | Genomic Resource Development for a Diploid Mint: Mentha Longifolia          |
| Martin, Clifton | Growing Winter Sprouting Broccoli in Unheated High Tunnels in New Hampshire |

#### Political Science

| Author                    | Thesis Title  |
|---------------------------|---|
| DiLorenzo, Matthew Daniel | Nationalism, the Anti-Conquest Norm, and Lockean Cultures of Anarchy  |
| Kucher, Charles           | Asset Forfeiture: State Restrictions and Equitable Sharing  |
| Tibbetts, Walter          | Without the Consent of the Governed: Why National Health Care Reform Passed in 2010 Despite Public Opinion Against It |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Psychology

| Author            | Thesis Title  |
|-------------------|---|
| Steiner, Kristina | Individual Differences in Updating Information During Reading |
| Walsh, Erinn K    | Belief Revision in the context of Reading Comprehension       |

#### RMP:Recreation Admin

| Author                | Thesis Title  |
|-----------------------|---|
| Russell, Kimberly A   | Identifying Conflict Between Winter Recreational Trail Users in Middlesex Fells Reservation |
| Thies, Kathryn Elaine | The Perceived Benefits Associated with Attending College Transition Programs                |

#### Sociology

| Author                  | Thesis Title   |
|-------------------------|--|
| Lopez, Thomas M         | Dominance in a Dating Relationship and Violence Approval as Partial Mediating Factors Between Violent Socialization and Perpetrating Dating Partner Violence |
| Schaefer, Andrew Paul   | How Age and Religiosity Affect Forgiving Others  |
| Staley, Michael Jeffrey | Sex, Infection, and Trust: Condom Use Among Gay Men and Their Perceptions of HIV   |
| Young, Justin R         | The Color of Labor: The Changing Racial and Spatial Distribution of Middle-Skill Employment  |

#### Writing

| Author                  | Thesis Title          |
|-------------------------|-----------------------|
| Cinilia, Marla          | Invasive Species      |
| Dame, Evgeniya Igorevna | Russia Without Men    |
| Doster, Amanda L        | Permission To Go Home |
| Fink, Nathan J          | Help Is On The Way    |
| Forrest, Rosanna        | Hush, Hush, Old Girl  |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                    | Thesis Title   |
|---------------------------|--|
| Gellesch, Marcel F        | Pose!  |
| Glasson, Megan L          | Brunch is Hell and Other Essays                      |
| Keller, Jenny Lynn        | Jump The Fence Over                                  |
| Mangan, Michael A         | You're Not a Man Until Your FAther is Dead: A Memoir |
| Manzi, Edward Anthony     | Prisoner Cowboy                                      |
| Nading, Tanya             | Torn All Up  |
| Ranfeld, Elizabeth Anne   | Teen Maniac  |
| Reardon, Kristina         | Crumbling Walls                                      |
| Taylor, Travis E.         | One Pine: A Novel                                    |
| Thompson, Matthew Randall | Underman   |
| Weatherly, Patrick Alan   | Everything That Evaporates Must Be Bottled           |

#### Zoology

| Author          | Thesis Title   |
|-----------------|--|
| Ford, Travis    | Evaluating Sampling-Induced Stress in Atlantic Cod ( <i>Gadus morhua</i> )   |
| Fulton, Beth    | The Spatial and Temporal Distribution, Population Growth Strategies and Options for the Removal of the Invasive Shore Crab <i>Carcinus maenas</i> in Two New Hampshire Estuaries |
| Ward, Daniel P. | The Influence of Stocking Density and Acoustic Conditioning on the Behavior and Growth of Atlantic Cod, <i>Gadus Morhua</i>  |

#### Academic Year of Graduation: Fall 2009 to Summer 2010

##### Animal Sciences

| Author           | Thesis Title   |
|------------------|--|
| Duncan, Alice R. | Disruption of Cytokeratin 18-Containing Intermediate Filaments in Bovine Luteal Cells: Effects on Fas Expression, Progesterone Secretion, and FasI-Induced Apoptosis |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author               | Thesis Title   |
|----------------------|--|
| Forcina, Jennifer J. | Genetic Over-Expression of Cytokeratin 18 in Bovine Luteal Cells: Effects on Intermediate Filament Formation and Fas Ligand-Included Apoptosis                                       |
| Fredin, Shane M.     | Evaluation of In Vitro Methods to Determine the Digestibility of Amino Acids in Rumen Undegraded Corn Silage   |
| Greenbacker, Kelly A | The Effects of Chlortetracycline, Lasalocid, and the Combination on Growth, Health, Apparent Total Tract Nutrient Digestibility, and Nitrogen Retention of Post-Weaned Dairy Heifers |

#### Biochemistry

| Author               | Thesis Title   |
|----------------------|--|
| Lu, Gang             | Design and Implementation of a Statistical Analysis Tool for Two Biological States               |
| Olson, Katrina Nunes | Truncated Mortalin in Animal Cancer  |
| Wiswall, William C.  | Characterization of T24D1.4(ok809) a Putative Alpha-1,2 Glucosyltransferase in <i>C. Elegans</i> |

#### Chemical Engineering

| Author               | Thesis Title                            |
|----------------------|---|
| Mulumba, Nkongolo    | Production of Biodiesel from Microalgae |
| O'Connor, Michael R. | Enzymatic Reactions in Microdevices     |

#### Chemistry

| Author            | Thesis Title   |
|-------------------|--|
| Chartier, Ryan T. | Aerosol Extinction Measurements with a New Multipass Aerosol Differential Optical Absorption Spectrometer (A-DOAS): Laboratory Validation and Initial Ambient Measurements |
| Chung, Lee Lee    | Measuring Paralytic Shellfish Toxins in Mussels from New Hampshire Coastal Waters Using Zwitterionic Hydrophilic Liquid Chromatography/Electrospray Mass Spectrometry      |
| Dunn, Joseph M    | A Versatile Synthetic Approach Towards the Synthesis of New Polycyclic Aromatic Hydrocarbons Using Scholl, Grignard and Umpolung Chemistries                               |

#### Civil Engineering



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author               | Thesis Title   |
|----------------------|--|
| Brogan, Philip A     | Digital Image Correlation Application to Structural Health Monitoring  |
| Brooke, Ethan        | Assessing Post Treatment Aeration Variables to Reduce Trihalomethanes for Small Systems  |
| Clark, Corey J       | Comparing the Stiffness and Strength of Natural Aggregate to Building Derived Aggregate  |
| Clayton, Joshua S.   | Probabilistic Seismic Hazard Analysis for Acceleration-Sensitive Nonstructural Components Attached to Shear Wall Structures                  |
| Cloutier, Scott A.   | Evaluation of Remediation Agents for DDT- and PCB-Contaminated Wetlands  |
| DiGennaro, Nicholas  | Examination of Thermal Impacts from Stormwater BMPs  |
| Friend-Gray, Owen P. | Improving Efficiencies and Modeling a Cyclic Suspended Ion Exchange (Sixc) Drinking Water Pre-Treatment System                               |
| Fuller, Ashlee L.    | Impact of Advanced Pretreatment on the Feasibility of UV/H <sub>2</sub> O <sub>2</sub> Treatment for Degradation of Organic Micropollutants  |
| Gyles, Ethan C       | Assessing the Role of Protists in Removing E.Coli in Slow Sand Filters   |
| Hall, Steven J.      | Determining the Effective PG Grade of Binder in RAP Mixtures   |
| Hrobak, Daniel F.    | Attenuation of Hydrogen Sulfide from Landfill Gas Study and Exploration of Construction and Demolition Debris Characteristics and Production |
| Lefebvre, Paul J.    | The Instrumentation, Testing, and Structural Modeling of a Steel Girder Bridge for Long-Term Structural Health Monitoring                    |
| Lemay, Gary S        | Stream Temperature Impacts of Culverts and Impervious Areas  |
| Mitchell, Luke F.    | Properties of Asphalt Mixtures Containing RAP  |
| Pepler, Paul T.      | Assessing Arsenic Removal by Zero Valent Iron Under Various Water Quality and Precoat Filtration Conditions                                  |
| Sherrard, James A    | Urban to Urban-Green Development: An Experimental and Modeling Study in Vegetated Roofs for Stormwater Reduction                             |
| Tarabdkar, Ketaki M. | Accelerated Carbonation of Contaminated Sediments and its Application  |
| Tokson, Jessica L.   | The Effect of Particle-Associated Viruses on Disinfection Processes in Water Treatment   |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Vuyovich, Carrie M. | Assessing the Accuracy of Passive Microwave Estimates of Snow Water Equivalent in Data-Scarce Regions for Use in Water Resource Applications: A Case Study in the Upper Helmand Watershed, Afghanistan |

#### Communication Sci & Disorders

| Author           | Thesis Title  |
|------------------|---|
| Warner, Emily E. | Is a Communication Event Stressful for Individuals with Expressive Aphasia? |

#### Computer Science

| Author              | Thesis Title   |
|---------------------|--|
| Kulkarni, Shilpa M. | Comparative Genomics Exploration Tools                           |
| Vohr, Samuel H.     | Error-Driven Adaptive Resolutions for Large Scientific Data Sets |

#### Counseling

| Author                    | Thesis Title   |
|---------------------------|--|
| Andrews-Ahearn, Edwina E  | Grief, Grieving and Death  |
| Banker, Robin M.          | Socially Prescribed Perfectionism and Limerence in Interpersonal Relations   |
| Barlow, Bonnie A          | The Effects of Intuition and Introversion on the Ability to Create Iconic Mental Images in Adult Populations                           |
| Caras, Stephanie R.       | The Association Between Parenting Style and Life Satisfaction in Adulthood   |
| Marston, James Carleton F | The Effectiveness of Tiered, RTI Model on Decreasing the Frequency of Disruptive Behavior of Students in an Alternative School Setting |
| Rousselle, Tara           | Centeredness: A Qualitative Study on the Mind-Body Connection  |

#### CSD:Lang&LitDisabilities

| Author             | Thesis Title   |
|--------------------|--|
| Harwood, Hannah A. | Oral Language Milestone Acquisition in Children Adopted from China |

#### Earth Sciences



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Goodrich, Jordan P. | Identifying Temporal Patterns and Controlling Factors in Methane Ebullition at Sallie's Fen, A Temperate Peatland Site, Using Automated Chambers |
| Treat, Claire C     | Modeling Permafrost Stability in Peatlands with Climate Change and Disturbance   |

#### Earth Sciences: Geology

| Author            | Thesis Title   |
|-------------------|--|
| LeCain, Rebecca M | Magnetostratigraphy of the Hell Creek and Lower Fort Union Formations in Northeast Montana |

#### Earth Sciences: Oceanography

| Author      | Thesis Title                                |
|-------------|---|
| Szeto, Mimi | Are the World's Oceans Optically Different? |

#### Electrical Engineering

| Author               | Thesis Title   |
|----------------------|--|
| Aho, Jacob P         | Advanced Control of Large Scale Wind Turbines  |
| Fekete, Andras K     | Implementation of a Dive Computer  |
| Franzheim, Albert W. | A Micro-Transponder for Precision Tracking of Underwater Targets                                       |
| Gealy, James G       | Exploration of a Free Space Optical Telemetry System for Formation Flying Sounding Rocket Sub-Payloads |
| Li, Xiaolu           | Bio-Inspired Log-Polar Based Color Image Pattern Analysis in Multiple Frequency Channels               |

#### Family Studies

| Author          | Thesis Title  |
|-----------------|---|
| Harris, Sabrina | What is the Glue that Holds Work and Family Life Together? Perceptions of Work and Family Balance Among Working New Hampshire Parents |
| Kline, Jenna    | Child Sexual Abuse in the Boy Scouts of America, 1970-1984  |

#### Genetics





## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author               | Thesis Title  |
|----------------------|---|
| Poulsen, Elizabeth G | Using Pentaploids as Tools for Studying Genomic Composition and Allele Transmission Patterns in Octoploid <i>Fragaria</i> |

#### History

| Author                | Thesis Title   |
|-----------------------|--|
| Beliveau, Kathleen C. | John Robinson: The Man They Would Not Let Us Forget  |
| Crocker, Tessa C.     | 'Ambassador Without Portfolio' Alistair Cooke's America on the British Airways                   |
| Kotruch, John C       | The Political Assassination of Edmund Randolph: George Washington's Presidential Affair of Honor |
| Stringer, Gregory P.  | Book I of William the Breton's Philippide: A Translation   |

#### Hydrology

| Author                | Thesis Title   |
|-----------------------|--|
| Campbell, Jennifer E. | Spatial and Temporal Groundwater Recharge Patterns in a Temperate Climate: An Investigation at the Burley Demeritt Farm in Lee, NH |
| Stewart, Robert J     | Separation of River Network Scale Nitrogen Removal Among Main Channel and Two Transient Storage Compartments                       |

#### Justice Studies

| Author             | Thesis Title  |
|--------------------|---|
| Beaulieu, Abbie L. | Seriousness Perceptions of Computer Crime vs. Traditional Crime                           |
| French, Jessie Lee | Gender Bias in the Legal Field: Experiences of Female Attorneys and Law Students          |
| Gostjev, Feodor A. | Psychiatric Status, Self Control and Violence: Application of the General Theory of Crime |

#### Kinesiology

| Author              | Thesis Title   |
|---------------------|--|
| Magle-Haberek, Anna | The Influence of the Coach-Athlete Relationship on Coaching Efficacy   |
| Oliver, Benjamin G. | Evaluating the Impact of Outdoor Orientation on Incoming Students' Perceptions of Social Norms About Alcohol Use on Campus |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title  |
|---------------------|---|
| Vernon, Franklin L. | The Experience of Co-Instructing on Extended Wilderness Trips |

#### Materials Science

| Author          | Thesis Title   |
|-----------------|--|
| Perry, Brian S. | Investigation of Radical Entry and Diffusion Within Latex Particles During Emulsion Polymerization |

#### Mechanical Engineering

| Author                   | Thesis Title   |
|--------------------------|--|
| Guntur, Srinivas Karthik | Optimization Studies on the Ducted Wind Turbine  |
| Hauptman, Zachary        | Characterization of a Low-Speed Boundary Layer Wind Tunnel   |
| Jenkins, Nicholas S.     | A Vortex Pair Near a Density-Gradient Interface  |
| Kasikci, Tugce           | Experimental Investigation of Key Assumptions in Analytical Failure Criteria for Sheet Metal Forming   |
| Mros, Catherine          | Analytical Model Prediction and Experimental Investigation of Nanoforming of Bulk Metallic Glass       |
| Wang, Lijie              | Investigation of Strain Gradients and Magnitudes During Microbending                                   |
| Wright, James E.         | Development and Validation of a Robust Model to Predict the Response of Wave Energy Conversion Devices |

#### Microbiology

| Author                     | Thesis Title   |
|----------------------------|--|
| Dapkiewicz, Laura C Benton | Biofilm Genetics of Burkholderia Cenocepacia   |
| Gallagher, Elizabeth M.    | Frequency of Reovirus Detection in Biosolids: Comparison of the EPA CFR 503 Technique to Integrated Cell Culture - Quantitative PCR                          |
| Majko, Michelle M          | Elucidating the Microbial Community Within a Trichloroethene Contaminated Competent Bedrock Aquifer Located at Pease International Tradeport, Portsmouth, NH |
| Olson, Nathanael D.        | nifH Diversity Associated with Montastraea Cavernosa Identified Using an Optimized Primer Protocol   |
| Rowedder, Holli N.         | Identification of Photorhabdus Temperata Motility Mutants Altered in Insect Pathogenesis   |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### NatRsrc:Environmental Consvrtn

| Author            | Thesis Title   |
|-------------------|--|
| Cottle, Morgan A. | Conflict Resolution and Community Support for Conservation in the Northern Forest: A comparative Case Study from Maine |
| Therrien, kim L   | Age and Age STructure of an Invasive Plant, Lythrum Salicaria  |

#### NatRsrc:Forestry

| Author         | Thesis Title   |
|----------------|--|
| Cate, Erica J. | A Feasibility Study: Forest Carbon Stocks and Stock Change of the White Mountain National Forest |

#### NatRsrc:Water Resources

| Author               | Thesis Title  |
|----------------------|---|
| Difranco, Emily M.   | Spatial and Temporal Trends of Dissolved Nitrous Oxide in the Lamprey River Watershed and Controls on the End-Products of Denitrification |
| Dunlap, Catherine R. | Seasonal Nitrate Dynamics in an Agriculturally Influenced New Hampshire Headwater Stream  |
| Galvin, Michelle     | Hydrologic and Nutrient Dynamics in an Agriculturally Influenced New England Floodplain   |

#### NatRsrc:Wildlife

| Author                  | Thesis Title   |
|-------------------------|--|
| Fickenscher, Johanna L. | Insect Responses to Invasive Shrubs in Early-Successional Habitats   |
| Goulet, Celine          | A Multi-Scale Evaluation of Eastern Hognose Snake ( <i>Heterodon platirhinos</i> ) Habitat Selection at the Northern Extent of its Range |

#### Natural Resources

| Author                  | Thesis Title   |
|-------------------------|--|
| Shamhart, Julee A.      | Isotopic Analysis of Arctic Ground Squirrel Tissues and Potential Food Sources                             |
| Walsh-Emond, Jennifer L | Patterns of Population Structure and Productivity in Saltmarsh Sparrows                                    |
| Wicklein, Haley F.      | Variation in Foliar Nitrogen and Albedo in Response to Nitrogen Fertilization and Elevated CO <sub>2</sub> |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Nursing

| Author               | Thesis Title  |
|----------------------|---|
| Boyd, Timothy L.     | The Impact of High-Fidelity Human Patient Simulation on Clinical Judgement of Nursing Students: A Pilot Study |
| Meyers, Jamie L      | The Relationship Between Learning Styles and Nursing Students' Satisfaction with Online Education             |
| Puglisi, Patricia M. | Job Satisfaction of New Hampshire Nursing Faculty   |

#### Nutritional Science

| Author              | Thesis Title  |
|---------------------|---|
| Hennigar, Stephen R | Exposure to Polybrominated Diphenyl Ethers (PBDEs) Suppresses the Release of Pro-Inflammatory Products by Alveolar Macrophages in Vitro |

#### Ocean Engineering

| Author              | Thesis Title   |
|---------------------|--|
| Pickett, Timothy S. | Evaluation of the Time Tension Line Cutter (TTL) as a Whale-Safe Fishing Gear Option |

#### Physics

| Author         | Thesis Title   |
|----------------|--|
| Park, Jinyoung | Electron Transitions of Propagation Characteristics of Dipolarization Fronts Observed by Cluster |

#### Plant Biology

| Author            | Thesis Title  |
|-------------------|---|
| Cherry, Smita     | Regulation of Polyamine Metabolism in Transgenic Poplar Cell Cultures |
| Pleticha, Lucy E. | Morphological Variation in Codium Fragile in the Northwest Atlantic   |

#### Political Science

| Author            | Thesis Title  |
|-------------------|---|
| Brown, Tanisha S. | Does Democracy Impact the Lives of the Poor in Nicaragua?   |
| Smith, Michael T  | Explaining Partition: Reconsidering the Role of the Security Dilemma in the Cyprus Crisis of 1974 |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Psychology

| Author         | Thesis Title  |
|----------------|---|
| Smith, Emily R | Keeping Track of Spatial Information in Reading Comprehension |

#### Reading

| Author              | Thesis Title   |
|---------------------|--|
| Meehan, Elizabeth S | Investigating Attributions of Academic Success and Failure in Adolescents  |
| York, Elizabeth A   | Meaningful Measurement: Is Fluency a Valid and Reliable Measure of Reading Progress for Struggling Adolescent Readers? Examining the Efficacy of Pearson's Aimsweb for Struggling Adolescent Readers |

#### Resource Administration & Mgmt

| Author         | Thesis Title  |
|----------------|---|
| Downes, Mary A | Residential Solar Hot Water Determinants of demand in New Hampshire |

#### RMP:Recreation Admin

| Author              | Thesis Title  |
|---------------------|---|
| Pernak, Rochelle N. | Potential for Conflict Index of Management Options at Two New Hampshire Beaches |

#### Sociology

| Author          | Thesis Title   |
|-----------------|--|
| MacKay, Skye M. | Race and Poverty: Does Geographical Location Matter?   |
| Mills, Meghan L | Unconventional Mental Health Treatment: Reexamining the Racial Disparity in Treatment Seeking Behavior |

#### Writing

| Author               | Thesis Title                               |
|----------------------|--|
| Chelko, Maria R      | Upside Down and Shining                    |
| Chesley-Park, Amanda | Rooting: In Search of Indigenous Identitiy |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author               | Thesis Title  |
|----------------------|---|
| Flaherty, Ryan P.    | The Wreck   |
| Graziano, Nathan J.  | When We Were Locusts  |
| Johnson, Astra L.    | Apartments and Cells  |
| Kingston, Matthew P. | The Time & Temperature Building   |
| O'Neill, Shannon C.  | Mending   |
| Parys, Bryan R.      | Wake, Sleeper   |
| Reynolds, Susan E    | Balancing on Edges  |
| Simard, Timothy S    | Gravy Fries and Sleepless Nights: One Man's Unhealthy Obsession with Montreal |
| Stickney, Sarah E.   | Breakfast in Transit  |
| White, Andrew D      | The Poison Jar and Other Stories  |
| Yuan, Rebecca D.     | Memory of the Gods  |

#### Zoology

| Author                | Thesis Title  |
|-----------------------|---|
| Chouinard, Adam J.    | Investigating Pheromone Variability in a Terrestrial Woodland Salamander  |
| Fenderson, Lindsey E. | Landscape Genetics of the New England Cottontail: Effects of Habitat Fragmentation on Population Genetic Structure and Dispersal          |
| Gamelin, Emily F.     | Aspects of the Reproduction of an Invasive Crab, <i>Hemigrapsus sanguineus</i> , in Northern and Southern New England                     |
| Murby, Amanda Lee     | Assessing Spatial Distributions of Cyanobacteria and Microcystins in NH Lakes with Implications for Lake Monitoring                       |
| Walker, Abigail B.    | Laver ( <i>Porphyra</i> Spp.) and Soy Protein Concentrate as Alternative Proteins in Diets for Juvenile Atlantic Cod, <i>Gadus Morhua</i> |

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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Animal Sciences

| Author                | Thesis Title  |
|-----------------------|---|
| Ferguson, Darren E    | Temporal Expression of Progesterone and Proteins Associated with Prostaglandin F <sub>2a</sub> - Induced Luteolysis in the Sheep                |
| Morrill, Kimberley M. | Anionic Salts in the Prepartum Diet and Addition of Sodium Bicarbonate to Colostrum Replacer and their Effects on IgG Absorption in the Neonate |

#### Chemical Engineering

| Author                  | Thesis Title  |
|-------------------------|---|
| Fu, Boyi                | Effect of Organic Solvents and Cosolvents on Lipase-Catalyzed Transesterification of Canola Oil     |
| Jones, Paetrice O.      | Cellulose Hydrolysis by Immobilized T. Reesei Cellulase   |
| Suman, Ekta             | Mathematical and Experimental Analysis of the Steadystates in a Simple Microvascular Network System |
| Usman Ibrahim, Sheik A. | Study of Additives used in a Copper Via Filling Chemistry   |

#### Chemistry

| Author                 | Thesis Title   |
|------------------------|--|
| Butland, Leanna D.     | Design and Construction of a Chemical Ionization Mass Spectrometer for Ambient Nitryl Chloride Analysis  |
| Cleary, Sean M.        | Packing Effects in Mixed Lennard-Jones Clusters and Potential Energy Functions for Alkylthiolates and C <sub>60</sub> on the Gold (111) Surface          |
| Henderson, Timothy J   | Tandem Zinc-Carbenoid Mediated Chain Extension-Aldol Chemistry of $\beta$ -Carbonyl Imides   |
| Jiao, Hongqin          | N-Linked Glycans Characterization and Biomarker Discovery by Sequential Mass Spectrometry  |
| Maniatis, Stephanie A. | Development of Microwave-Assisted Methods to Aid in Carbohydrate Analysis  |
| Martin, David J        | C <sub>2</sub> -Symmetric Dibenzo-Annulated Cross-Bridged Cyclam: Synthesis, Functionalization, and Copper Complexation                                  |
| Nielsen, Leif C.       | The Measurement of Volatile Organic Compounds During ICARTT 2004 and Experimental Studies of Chlorine Atom Reactions with $\alpha$ - and $\beta$ -pinene |
| Voukides, Alicia C.    | Computational Studies on Complex Reaction Mechanisms   |

#### Civil Engineering

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                   | Thesis Title  |
|--------------------------|---|
| Damiano, Lisa L          | Electricity Production from the Management of Municipal Solid Waste Leachate with Microbial Fuel Cells                      |
| Fowler, George D.        | Measuring Suspended Sediment Characteristics to Identify Accurate Monitoring Techniques in Stormwater Runoff                |
| Rivera, Felix A.         | Evaluation of the Bailey Method as a Tool for Improving the Rutting Resistance of Mix Designs Using New Hampshire Aggregate |
| Robert, Christopher W.   | Transverse Joint Configuration Development and Testing for a Modular Bridge Deck Replacement System                         |
| Salzer, David L          | Rapid Bridge Deck Replacement   |
| Santoso, Patrick William | Structural Testing of the New England Precast Concrete Bridge Rail  |
| Sipple, Jesse D          | Structural Modeling and Monitoring of the Rollins Road Bridge for Condition Assessment                                      |
| Wise, Donald E.          | Sampling Techniques for Sediment Pore Water in Evaluation of Reactive Capping Efficacy                                      |

#### Counseling

| Author                | Thesis Title  |
|-----------------------|---|
| Andrews, Jennifer R   | A Model for Integrating Collaborative Life-Story Writing into Counselor Training Programs               |
| Baddeley, Mark Albert | A Qualitative Study of coping with Unemployment   |
| Derbyshire, Todd S.   | Correctional Group Treatment for Victims of Sexual Assault  |
| Deutsch, Amy D        | Psychoeducational and Therapeutic Group Counseling for Central American Female Immigrants               |
| Gray, Sara L.         | Masculine Gender Roles and Therapy: A Conceptual Workshop   |
| Marder, Susan         | Self-Efficacy and the Role of Friendship During the College First-Year Experience                       |
| Morrow, Sara C.       | A Survey of School Counselor Attitudes Regarding Animal-Assisted Interventions                          |
| Mulhearn, Erika M.    | A Comparative Study of the Dominant Character Strengths of Mental Health and Business Graduate Students |
| Scuderi, Leslie A     | Self-Injury Behavior in Adolescents: An Education and Prevention Model                                  |
| Wong, Shannon L.      | Impact of Media Exposure, Ethnicity and Body Mass Index on the Body Image of College Women              |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author               | Thesis Title   |
|----------------------|--|
| Woodard, Corianne S. | Chronic Pain as the Result of Traumatic Injury: A Group Counseling Model for Survivors |

#### CSD:Lang&LitDisabilities

| Author              | Thesis Title                                      |
|---------------------|---|
| Garcia, Josefine M. | The Lived Experience of Adolescents with Dyslexia |

#### Earth Sciences

| Author                      | Thesis Title  |
|-----------------------------|---|
| Cleveland, Meredith         | Analysis of Organic Aerosol in Houston, TX, through Aerosol Mass Spectrometry and Proton Nuclear Magnetic Resonance Spectroscopy  |
| Fahnestock, Maria Florencia | Temporal and Spatial Variations in Hydrothermal Fluid Abundances of Degassing Metals Across an Eruptive Cycle at 9 50'N East Pacific Rise   |
| Hoff, Claire J.             | Mycorrhizal Colonization and Nutrient Supply Rate Influence Elemental and Isotopic Tracers of Calcium Cycling in Plant-Substrate Systems  |
| Luxford, Jeffrey A.         | Evaluating the Performance of Model-Derived Wind Forecasts at Summit, Greenland During the Summer of 2008   |
| McDermott, Jill M.          | Elemental and Sr Isotope Constraints on Couples High- and Low-Temperature Hydrothermal Fluids throughout an Eruptive Cycle at 9 50'N East Pacific Rise                                      |
| Place, Philip Fulton        | Observations of Nucleation-Mode Particle Events and Characterization of Organic Atmospheric Particulate Matter at a Rural New England Site  |
| Reichert, Krista            | Amino Acid Paleothermometry in the Summer Lake Basin, Oregon, Using Fossil Ostracodes from the Middle to Late Pleistocene   |
| Sawyer, Virginia R.         | Height of the Planetary Boundary Layer During Icealot 2008  |
| Scheuer, Eric M             | Observations of Arctic Haze from the NCAR C-130 During TOPSE(2000) and Evidence of HNO <sub>3</sub> Uptake and Redistribution by Cirrus Clouds During TC4(2007) Obtained from the NASA DC-8 |
| Spierre, Susan G.           | Extreme Precipitation Trends in New England   |

#### Earth Sciences: Geology



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                   | Thesis Title   |
|--------------------------|--|
| Barkman, Julie Elizabeth | On the Generation of Isotopic Disequilibrium During Crustal Anatexis of Ancient Metasedimentary and Granitic Rocks   |
| Howley, Michael W.       | A Late Glacial and Holocene Chronology of the Castner Glacier, Delta River Valley, Alaska  |
| Locke, Jennifer A.       | Hafnium Isotopic Insights into the Evolution of Mantle Source Contributions to Primitive Lavas Erupted in Turkana, East African Rift System                |
| Taggart, Jean R          | Developing a 'Little Ice Age' Glacial Chronology in the Southern Peruvian Andes using Lichenometry and Cosmogenic <sup>10</sup> Be Surface Exposure Dating |
| Tsukui, Kaori            | Paleomagnetism of Eocene Volcanic Tuffs from Laramide Foreland Basins: Implications for the Geomagnetic Polarity Time Scale                                |

#### Earth Sciences:Ocean Mapping

| Author              | Thesis Title   |
|---------------------|--|
| Felzenberg, Janice  | Detecting Bedform Migration from High-Resolution Multibeam Bathymetry in Portsmouth Harbor, New Hampshire, USA                 |
| Sweeney, Edward M.  | Geological Interpretations of a Low-Backscatter Anomaly Found in 12-KHZ Multibeam Data on the New Jersey Continental Margin    |
| Wardwell, Nathan C. | Offshore Vertical Datum Separations Derived from Post-Processed Kinematic (PPK) Heights Observed Along a Scheduled Ferry Route |

#### Electrical Engineering

| Author                | Thesis Title   |
|-----------------------|--|
| Atkinson, Prescott B. | The Reduction of Broadband Crosstalk Interference Between Multiple Conductors in a Backplane Interconnect and its Performance Impact on Gibalt Digital Communication Signals |
| Cassias, Ian M.       | Project54 Vehicle Telematics for Remote Diagnostics, Fleet Management and Traffic Monitoring   |
| Elhart, Ivan          | Apco Project 25 Wireless Data Services Over Land Mobile Radio Channel for Smaller Law Enforcement Agencies   |
| Jankowski, Tomasz M.  | An Architecture and Technology for Ambient Intelligence Node   |
| Memarovic, Nemanja R. | The Influence of Personal Navigation devices on Drivers' Visual Attention on the Road Ahead and Driving Performance  |
| Nichols, Jeffrey S    | Design and Application of a Wireless Torque Sensor for CNC Milling   |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                     | Thesis Title   |
|----------------------------|--|
| O'Donnell, Brian Nickerson | Modeling the Signal Processing of a Multi-Sonar System to Determine Interference Solutions |
| Palinko, Oskar             | Effects on Different Push-to-Talk Solutions on Driving Performance                         |

#### History

| Author            | Thesis Title   |
|-------------------|--|
| Bozzi, Jevon W.   | The Sewanee Football Narrative: Christianity, Southern Honor, and Intercollegiate Football at the University of the South, 1890-1899 |
| Smith, Whitney E. | The Federal Art Project in Provincetown, Massachusetts the Impact of a Relief Program on an Established Art Colony                   |

#### Hydrology

| Author           | Thesis Title   |
|------------------|--|
| Fickett, Sarah M | Thermal Exchange Processes within Shallow fractured Bedrock: Applications for Standing Column Wells                        |
| Truslow, Danna B | Temperature Moderation in a Coastal Coldwater Stream A Study of Surface Water, Groundwater, and Hyporheic Zone Interaction |

#### Justice Studies

| Author            | Thesis Title  |
|-------------------|---|
| Cutler, Matthew J | A Compatibilist Theory of Justice and Desert  |
| Fisher, Robert W. | Collective Forgiveness and the Unforgivable   |
| Taylor, Joseph J. | Court Appointed Forensic Interviewers of Non-Victim Child Witnesses: Weighing the Needs of Reliability, Child Protection, and Litigant's Rights |

#### Materials Science

| Author             | Thesis Title                                   |
|--------------------|--|
| Chirat, Mathieu S. | Auto-Adaptive Multistage Curing Epoxy Coatings |

#### Mechanical Engineering

| Author | Thesis Title |
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author               | Thesis Title   |
|----------------------|--|
| Blanchard, Jeremy E. | Numerical Investigations of Langmuir Circulation and Internal Waves                          |
| Cui, Yanjun          | Tool Wear Monitoring for Milling by Tracking Cutting Force Model Coefficients                |
| McLaughlin, Kyle R.  | Investigation of a Stress Concentration Factor for Analytical Stress Based Failure Criterion |
| Siopis, Michael S.   | Investigation of Electrical-Assisted Forming at the Microscale                               |

#### Microbiology

| Author                  | Thesis Title   |
|-------------------------|--|
| Perry, Lauren A.        | Experimental Evolution of <i>Vibrio Fischeri</i> to Squid Symbiosis    |
| Wrocklage, Sarah Comeau | The Distribution of Beneficial Mutations and their Pleiotropic Effects |

#### NatRsrc:Environmental Consvrtn

| Author              | Thesis Title  |
|---------------------|---|
| Beem, Nora T.       | Eelgrass in the Great Bay Estuary, New Hampshire and Maine; Monitoring Eelgrass Decline and Educating Local Students        |
| Fong, Lindsey P.    | Expanding the Availability of Sustainable Seafood: Uncovering Barriers for Retailers  |
| Jacques, Katie H    | Effects of Urbanization on the Size and Spatial Distribution of Wetlands in New Hampshire                                   |
| Klein, Emily S      | A New Perspective: Atlantic Herring ( <i>Clupea Harengus</i> ) as a Case Study for Time Series Analysis and Historical Data |
| Kornbluth, Aaron B. | Tracking Bacterial Pollution in the Cains Brook/Mill Creek Watershed: Implications for Policy and Management                |

#### NatRsrc:Forestry

| Author            | Thesis Title   |
|-------------------|--|
| Didas, Colleen    | Sampling and Classification of Tree Holes Within a Northeast Temperate Forest System       |
| Heath, Brianna L. | Evaluating Scale to Achieve Optimal Image Classification Accuracy in New Hampshire Forests |

#### NatRsrc:Water Resources

| Author | Thesis Title |
|--------|--------------|
|--------|--------------|



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title   |
|-----------------------|--|
| Glode, Joanne S       | Effects of Vegetated Buffers on Salt Marsh Plant Composition and Groundwater Nitrogen Uptake                                     |
| Sokoloff, Paul D.     | Estuarine Water Column Filtration by <i>Zostera Marina</i> L. (Eelgrass) and <i>Crassostrea Virginica</i> (Eastern Oyster)       |
| Stonebraker, Austin C | Investigating the Free Amino Acid Contribution to Dissolved Organic Nitrogen Along a Flowpath in the Lamprey River Watershed, NH |
| Wilderman, Susan E    | Contributions of Groundwater Seepage to the Water and Nutrient Budget of Mendums Pond Barrington, New Hampshire                  |

#### NatRsrc:Wildlife

| Author              | Thesis Title   |
|---------------------|--|
| Coster, Stephanie S | Use of Genetic Tagging to Estimate Abundance and Detect Spatial Patterns of Black Bears in New Hampshire |
| Theriault, Joanne E | Effects of Forested Buffers and Wetland Characteristics on Vernal Pool Macroinvertebrate Assemblages     |
| Tutein, Emma F      | Orientation of Vernal Pool Amphibians in an Industrial Forest Landscape                                  |

#### Natural Resources

| Author              | Thesis Title  |
|---------------------|---|
| Carlson, Martha R   | An Assessment of Stress in <i>Acer Saccharum</i> as a Possible Response to Climate Change   |
| Dickerman, Erica H  | Extrapolating Hyperspectral Anthocyanin Indices to Multispectral Satellite Sensors-Applications to Fall Foliage in New England                            |
| Dolan, Katelyn Anne | Using Icesat's Geoscience Laser Altimeter System to Assess Large Scale Forest Disturbance Caused by Hurricane Katrina                                     |
| Kessler, Will R.    | Spectral Effects of a Calcium Amendment on Red Spruce Foliage at Laboratory and Stand Scale   |
| MacLean, Meghan E   | Evaluating Accuracy Issues in Mapping Benthic Habitats: An Investigation in the Causes of Misclassification and the Importance of Segmentation Parameters |
| Vagos, Kristina     | The Effect of Plant-Soil Feedback and Competition on the Invasion of New Hampshire Thickets by Non-Native Shrubs  |

#### Nursing

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author          | Thesis Title   |
|-----------------|--|
| Britt, Karen S. | New Graduate Nurses' Perceptions of Simulation Training  |
| Keane, Kathleen | Validity and Reliability of the Critical Care Pain Observation Tool: A Replication Study   |
| Tanis, Sandra   | How Nurses Perceive Patient Suffering  |
| Vining, Kerri   | The Effect of Situation, Background, Assessment, Recommendation (SBAR) Education on the Quality of Student Nurses Handoff Report |

#### Nutritional Science

| Author                 | Thesis Title   |
|------------------------|--|
| Allgood, Erin L        | The Effect of Diet and Polybrominated Diphenyl Ether (PBDE) Exposure on Adipocyte and Whole Body Metabolism in Male Wistar Rats                  |
| Ferguson, Katharine R. | A Nutrition Education Program to Increase the Consumption of Whole Grains Among College Students at the University of New Hampshire Dining Halls |

#### Occupational Therapy

| Author           | Thesis Title   |
|------------------|--|
| Backes, Jason J. | Exploring Decision Making by Occupational Therapists in a School Setting |

#### Ocean Engineering

| Author          | Thesis Title   |
|-----------------|--|
| Despins, Ryan R | Evaluation of Multiple Small Volume Aquaculture Cage Systems |

#### Ocean Engr:Ocean Mapping

| Author                      | Thesis Title  |
|-----------------------------|---|
| Moser, Marc S.              | Bathymetric Uncertainty Model for the L-3 Klein 5410 Sidescan Sonar |
| Weirathmueller, Michelle J. | Acoustic Ranging in a Dynamic, Multipath Environment                |

#### Physics

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title  |
|---------------------|---|
| Stamnitz, Timothy C | Comments on the Relation of M-Theory and Supergravity |
| Zaffke, Stephen C.  | Testing and Calibration of the IBEX Lo-Res Collimator |

#### Plant Biology

| Author             | Thesis Title   |
|--------------------|--|
| Hofmann, Laurie C. | An Assessment of the Biodiversity and Bioremediation Potential of Distromatic <i>Ulva</i> spp. (Chlorophyta) in the Great Bay Estuarine System of New Hampshire and Maine, U.S.A |

#### Political Science

| Author                 | Thesis Title   |
|------------------------|--|
| Arwa, Garrett O.       | Oil vs. Democracy: Oil Rent, Social Groups, and Democratization in Middle East Monarchies                              |
| Boettner, James A.     | Neo-Conservatism and Foreign Policy  |
| Carder, Benjamin U.    | Journalism of Affirmation?   |
| Kash, Laura E.         | The Transformative North Atlantic Treaty Organization: An Alliance's Out-of-Area Policy and Journey to Afghanistan     |
| Kyriacou, Elizabeth S. | The Limits of Democracy and Economic Growth: Institutionalized Inequality in Peru                                      |
| Raimundo, Ian M.       | Saudi Arabia's Use of Air Power Capabilities to Secure its National Security Assets in the Northern Persian Gulf Arena |
| Zoeller, Kristyn Call  | Why Latinas Swing Left: Ideological Self-Identification in Conservative Chile  |

#### Psychology

| Author           | Thesis Title  |
|------------------|---|
| Stewart, Emily S | Effect of Cholinergic Deafferentation of Prefrontal Cortex on Working Memory for Familiar and Novel Odors |

#### Sociology

| Author            | Thesis Title   |
|-------------------|--|
| Carson, Jessica A | Substance Use Among New Hampshire Adolescents: Attitudes as Predictors of Substance Use Behavior |



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### Master's Theses from Fall, 1990 to Present

| Author                   | Thesis Title  |
|--------------------------|---|
| Mitiguy, Angela M        | The Effects of Perceived Risk and Responsibility on the Acceptance of a Human Papillomavirus Vaccine by College Men |
| Vanderminden, Jennifer A | The Social Construction of Disability and the Modern-Day Healer   |

#### Writing

| Author             | Thesis Title                         |
|--------------------|--------------------------------------|
| Borowicz, Karin M. | Winter Plumage                       |
| Donohue, Robert E. | Ticino's Flow                        |
| Erdmann, Sara M.   | How to Go Missing and Never Be Found |
| Gosztyla, Mark A   | The Weaponry of the Native Peoples   |
| Ingraham, Karen E  | Granite Reflections                  |
| Robie, Jessie M.   | The Cult of Wayne                    |
| Webster, Nathan S  | Can't Give This War Away             |
| Wilkins, Brian J.  | Hermit Kingdom                       |

#### Zoology

| Author                   | Thesis Title  |
|--------------------------|---|
| Allan, Elisha B.         | Rapid Identification of New England Freshwater Copepods Using a Novel Genetic Barcode   |
| Breton, Timothy S        | Spawning Stock Identification of Atlantic Cod ( <i>Gadus Morhua</i> ) in U.S. Waters using Pan I and Microsatellite Genetic Markers                           |
| Eno, Celeste C.          | Karyotyping and Localization of Genes on the Chromosomes of the Sea Urchins, <i>Strongylocentrotus Drobachiensis</i> and <i>Strongylocentrotus Purpuratus</i> |
| Page, Laura C.           | Distribution of Epibionts and their Effects on the Marine Snail <i>Littorina Littorea</i> in Northern New England   |
| Rillahan, Christopher B. | The Behavior of Atlantic Cod, <i>Gadus Morhua</i> , in an Offshore Net Pen  |



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### Master's Theses from Fall, 1990 to Present

| Author               | Thesis Title  |
|----------------------|---|
| Siceloff, Laughlin B | Fine-Scale Activity, Distribution, and Habitat Utilization of Atlantic Cod ( <i>Gadus morhua</i> ) on the Ipswich Bay Spawning Ground |
| Wyatt, Lauren H.     | Effects of Sedimentation and Periphyton Communities on Embryonic Rainbow Smelt, <i>Osmerus Mordax</i>                                 |

#### Academic Year of Graduation: Fall 2007 to Summer 2008

##### Animal Sciences

| Author               | Thesis Title   |
|----------------------|--|
| Allen, Jennifer T.   | Constitutive Expression of Jagged-1 in 3t3-L1 Preadipocytes Suppresses Adipogenesis and Adipose Tissue Development |
| Marston, Susan P     | Microbial and Nutritional Changes of Wet Brewers Grains Inoculated with a Commercial Preservative                  |
| Merrill, Lisa Condon | Factors Affecting Insulin-Stimulated In Vitro Glucose Oxidation in Rat Epididymal Adipocytes                       |

##### Biochemistry

| Author               | Thesis Title  |
|----------------------|---|
| Bushold, Geoffrey J. | Development, Production, Purification, and Activity of Recombinant Lamprey Conadotropin in S2 Drosophila and Chinese Hamster Ovary Cell Lines |

##### Chemical Engineering

| Author           | Thesis Title   |
|------------------|--|
| Morgan, Jason M. | Study of gas diffusion layers in direct methanol fuel cells (DMFC) |
| Shen, Xiangping  | Transesterification of Waste Oil by Candida Lipase                 |

##### Chemistry

| Author         | Thesis Title  |
|----------------|---|
| Cho, Joonhyung | I. Complexation of FE(II), NI(II), CU(II) and ZN(II) by Hexadentate Tripodal Aminopyridyl Chelators. II. The Potential of Curcumin in Medicine: Synthesis and Iron Coordination Chemistry of Curcuminoids |
| Joe, Jis       | Fungal Glycosphingolipids: Characterization of Structures and Interactions with Plant Defensins   |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Owuor, Elizabeth A. | Studies of the Structures, Biosynthesis and Function of Fungal Glycosphingolipids  |
| Terova, Orjana      | Synthesis, Characterization and Inertness Studies of Gallium (III) and Indium(III) Complexes of Dicarboxymethyl Pendant-Armed Cross-Bridged Cyclam |

#### Civil Engineering

| Author                    | Thesis Title   |
|---------------------------|--|
| Carter, Robert K          | Geochemical weathering of granular byproduct materials   |
| Cunningham, Joseph J.     | Protistan Predation And TCE Biodegradation In A Fractured Rock Aquifer   |
| Derocchi, Mark J.         | Recycled construction and demolition materials in roadway base/subbase applications  |
| Greenwood, Scott L        | An environmental characterization of unbound mining residuals from the tri-state mining district   |
| Houle, Kristopher M.      | Winter Performance Assessment of Permeable Pavements   |
| McMahon, James F          | Removing Radium-226 Contamination from Ion Exchange Resins used in Drinking Water Treatment  |
| Melendez Loaiza, Kelly A. | An Investigation of Recycled/Industrial Materials to Attenuate Hydrogen Sulfide Resulting from the use of Construction and Demolition Debris Fines |
| Pac, Douglas R.           | Rapid Test Method for Determining Alkali-Silica Reactivity Expansion in Concrete and Aggregate   |
| Sturtevant, Jeffrey R.    | Performance of Rigid Pavements Containing Recycled Concrete Aggregates   |

#### Communication Sci & Disorders

| Author               | Thesis Title  |
|----------------------|---|
| Calvert, Margaret T. | Identifying Issues in Acquired Brain Injury Recover that Lead to a Productive and Fulfilling Life |
| Johnson, Alla A.     | Factors Related to the Rejection and/or Abandonment of AAC Devices                                |
| Williams, Jesse E.   | Educating the General Public about Brain Injuries   |

#### Computer Science

| Author | Thesis Title |
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### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title  |
|-----------------------|---|
| Burns, Ethan A        | Implementation and comparison of iSCSI over RDMA  |
| Kim, Hyojin           | Satellite-Based Auroral Tomography and Time-Varying Volume Reconstruction                         |
| Mitchell, Peter W.    | The Perceptual Optimization of 2D Flow Visualizations Using Human-in-the-Loop Local Hill Climbing |
| Schaeffer, Stephen J. | An Augmented Haptic Interface as Applied to Flow Visualization                                    |

#### Counseling

| Author                    | Thesis Title   |
|---------------------------|--|
| Daisy, Brianna J.         | Deaf people in a hearing world: A qualitative study of cultural identity issues  |
| Parent, Jessica Chierepko | Evaluating the Serious and Violent Offender Reentry Initiative Within and Across the New England Region                              |
| Strachan, Ann C           | Career self-efficacy psycho-educational group model for emerging adults using positive psychology interventions                      |
| Wickman, Laura M.         | Efficacy of available treatments for children and adolescents with a behavioral diagnosis as measured by resiliency and CAFAS scores |

#### CSD:EarlyChildIntervention

| Author              | Thesis Title  |
|---------------------|---|
| Ho, Tibbany N       | Communication/Educational Programs for Students with Angelman Syndrome in Including Classrooms: A Look at Best Practices              |
| Winters, Carolyn C. | Social and Communication Patterns that can be Detected Early in 12-Month Old Infants Later Diagnosed with an Autism Spectrum Disorder |

#### CSD:Lang&LitDisabilities

| Author               | Thesis Title  |
|----------------------|---|
| Shepperd, Kristin D. | The Interpretation of Sarcasm by Typically Developing Children and Children with LLD in the School Age Population |

#### Early Childhood Education

| Author          | Thesis Title  |
|-----------------|---|
| Graham, Linda D | Community literacy as seen through the eyes of families |



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### Master's Theses from Fall, 1990 to Present

#### Earth Sciences

| Author                  | Thesis Title   |
|-------------------------|--|
| Anderson, Casey H.      | Measurements of Gas-Phase Water-Soluble Organic Carbon                     |
| Burakowski, Elizabeth A | Trends in Wintertime Climate Variability in the Northeastern United States |

#### Earth Sciences: Geology

| Author                 | Thesis Title  |
|------------------------|---|
| Marcillo Lara, Omar E. | Digital Seismo-Acoustic Signal Processing Aboard a Wireless Sensor Array for Volcano Monitoring |

#### Electrical Engineering

| Author                   | Thesis Title   |
|--------------------------|--|
| Bond, Timothy E.         | Prototype Mixed-Signal Hardware for Public Safety Radio Interoperability   |
| Brandt, James A.         | High voltage bias waveform generator for an RF MEMS microswitch  |
| Cartier, Marc B.         | A measurement based comparison of full-wave and quasi-static methods for baseband modeling of plated through hole via structures     |
| Gaudreau, Christopher M. | Project54 Handheld System Development and Pilot Deployment   |
| Gu, Fan                  | Blending Techniques for Underwater Photomosaics  |
| Jayakumar, Satheesh      | Non-Invasive Keyboard Fatigue Monitoring System for Improving User Performance and Reducing Incidences of Repetitive Strain Injuries |
| Landino, Darren M.       | Intelligent Airlift System for Submersible Cage Aquaculture  |
| Lanzoni, Jose Carlos     | Software-Defined Radio Using Labview and the PC Sound Card: A Teaching Platform for Digital Communications                           |
| McMahon, Benjamin G.     | Computer modeling analysis of broadband mobile antennas  |
| Plumlee, Christopher L.  | Application Development Process for GNAT, A SOC Networked System   |
| Sankaran, Anupama        | Statistical Characterization of Correlation-Based Time/Frequency Synchronizers for OFDM  |



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| Author              | Thesis Title  |
|---------------------|---|
| Spaulding, Keith P. | Measuring the Elf Response of an Acupuncture Meridian Compared to a Control Channel |

#### Genetics

| Author            | Thesis Title  |
|-------------------|---|
| Ballok, Alicia E. | GacA Regulation of Luminescence in the Symbiotic Bacterium <i>Vibrio fischeri</i>                             |
| Ellis, Crystal N  | The experimental evolution of host adaptation of the emerging pathogen <i>Burkholderia cenocepacia</i>        |
| Roy, Richard A.   | A transcriptome comparison of <i>Caenorhabditis elegans</i> cultured in laboratory and soil-like environments |

#### History

| Author              | Thesis Title  |
|---------------------|---|
| Buttram, Timothy E. | "Swallowing Mexico without any grease": The absence of controversy over the feasibility of annexing all Mexico, 1847-1848           |
| Iggulden, Emily M   | The "Loyalist Problem" in the Early Republic: Naturalization, Navigation and the Cultural Solution, 1783-1850                       |
| Snell, Rachel       | Watchmen of the new Jerusalem: Jedidiah Morse, the Bavarian Illuminati and the refashioning of the Jermiad Tradition in New England |
| Strang, Cameron B.  | "The invisible lines between us": Border making in Anglo-America, 1750-1800   |

#### Hydrology

| Author            | Thesis Title  |
|-------------------|---|
| Frades, Matthew C | Hydrologic Analysis of the Headwaters Lamprey River Watershed using Water Isotopes                                |
| Thouin, Joseph A  | The Biogeochemical Influences of Nitrate, Dissolved Oxygen, and Dissolved Organic Carbon on Stream Nitrate Uptake |

#### Justice Studies

| Author              | Thesis Title  |
|---------------------|---|
| Boulter, Deirdre A. | Family Structure and Adolescent Delinquency: Examining the Influence of Parenting and Extended Family Support |
| Burdi, Louis        | The Role of Peer Networks in Mediating and Moderating Racial Disparities in Youth Violence                    |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                   | Thesis Title   |
|--------------------------|--|
| Drucker, Sarah B.        | The Relationship Between the Public Institute of Higher Education and the Student: Philosophical Issues Raised by Current Alcohol Consumption Policies |
| Vanhoogenstyn, Andrew J. | Knowledge and Perceptions of "Cyberterrorism"  |

#### Kinesiology

| Author             | Thesis Title  |
|--------------------|---|
| Beightol, Jesse D. | The effect of an experiential, adventure based "anti- bullying initiative" on levels of resilience: a mixed methods study |
| Lane, Jeffrey S.   | The Effectiveness of an Adventure Travel Summer Camp Program on the Life Effectiveness of Adolescents                     |

#### Liberal Studies

| Author           | Thesis Title  |
|------------------|---|
| Fernald, Jody R. | Slavery in New Hampshire: Profitable Godliness to Racial Consciousness  |
| Labrecque, Kelly | Persuasion by Design: World War I, The Committee on Public Information, and the Effectiveness of Good Poster Design |

#### Materials Science

| Author               | Thesis Title   |
|----------------------|--|
| Boukhal, Zakaria     | Molecular Engineering of Polymer Nanoparticles for Drug Delivery   |
| Cao, Ming            | Synthesis and Properties of Poly(Itaconic Acid)  |
| Hu, Shunfu           | Design of Atomospheric Pressure Plasma CVD Process for Deposition of Silicon Nitride Thin Films using Dielectric Barrier Discharge |
| Nguyen, Jonathan Kim | Dual Microcapsule System for Autonomous Self-Healing Coatings  |

#### Math:Applied Math

| Author            | Thesis Title   |
|-------------------|--|
| Johnson, Erica G. | Controlled Transitions Between Orbits in Nonlinear Systems         |
| Loring, Burlen    | Numerical And Adaptive Grid Methods For Ideal Magnetohydrodynamics |



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### Master's Theses from Fall, 1990 to Present

#### Mechanical Engineering

| Author               | Thesis Title  |
|----------------------|---|
| Borrelli, Michael J. | An autonomous orbit transfer controller for the NASA magnetospheric multiscale satellite                                      |
| Derov, Matthew J.    | Investigation of a stress based failure criterion for sheet metal   |
| Farrar, Michael S.   | A Comparative Analysis of Control Techniques for Formation Flying Spacecraft in an Earth/Moon-Sun L2-Centered Lissajous Orbit |
| Javorek, Bryan       | Calibration of a Milling Force Model using Feed and Spindle Power Sensors   |
| Lewis, Diana J.      | Atmospheric Ozone Detection Using A Tin Oxide Solid State Sensor  |
| Rason, Kavic W.      | Nonoscale Molding of Bulk Matallic Glass  |

#### Microbiology

| Author            | Thesis Title  |
|-------------------|---|
| Niemann, James M. | The Identification, Characterization, and Expression of Truncated Hemoglobin Genes in the Nitrogen-Fixing Actinorhizal Symbiont Frankia               |
| Terrio, Donna L.  | The Role of OmpD in Adherence of Salmonella Enterica Serovar Typhimurium to Macrophages and the Effect of Mannan-Binding Lictin in Initial Attachment |

#### NatRsrc:Forestry

| Author              | Thesis Title  |
|---------------------|---|
| Barrett, Kathleen M | The effects of using prescribed fire or mowing to maintain early successional wildlife habitat                    |
| Kenning, Robert S.  | Field efficiency and bias of several methods for downed wood and snag inventory in western North American Forests |
| Richardson, John B  | Patterns of Aboveground Biomass Accumulation in a Northern Hardwood Forest  |

#### NatRsrc:Water Resources

| Author            | Thesis Title   |
|-------------------|--|
| Bourakovsky, Anna | Influence of Watershed Suburbanization on Leaf Litter Decomposition and the Microbial Activity in Four Streams in Southeastern New Hampshire |



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### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Potter, Jody D      | Denitrification Drives Total Nitrate Uptake in Small Puerto Rican Streams    |
| Traer, Katherine A. | Controls on Denitrification in a Northeastern Coastal Suburban Riparian Zone |

#### NatRsrc:Wildlife

| Author           | Thesis Title   |
|------------------|--|
| Boland, Kelly M. | Impact of Predation and Hunting on the Eastern Cottontail Rabbits at Cape Cod National Seashore, Massachusetts |

#### Natural Resources

| Author             | Thesis Title   |
|--------------------|--|
| Badger, Daniel R.  | Developing a Kalman Filter Approach to Home Range Estimation Applied to the Atlantic Bluefin Tuna ( <i>Thunnus Thynnus</i> ) |
| Berger, Kathryn A. | Evaluation and Improvement of Model Algorithms for Predicting Belowground Carbon Allocation in Forests                       |
| Cormier, Tina A    | Statistical and Cartographic Modeling of Vernal Pool Locations: Incorporating the Spatial Component into Ecological Modeling |

#### Nursing

| Author            | Thesis Title   |
|-------------------|--|
| Cantara, Susan L. | The Effect of Preoperative Stoma Site Marking on Quality of Life in Patients Undergoing Ostomy Surgery |
| O'Brien, Alyssa J | Correlating health locus of control and risk for postpartum depression                                 |
| Taylor, Morgan A. | The relationship between autonomy and job satisfaction among registered nurses                         |

#### Ocean Engineering

| Author              | Thesis Title   |
|---------------------|--|
| Horton, Jonathan F. | Dynamic Responses of a 20-Ton Capacity feed Buoy in an Open Ocean Environment  |
| Moceri, David P.    | The evaluation of the instrumentation of an acoustic measurement buoy designed to monitor the underwater acoustic environment during pile driving activity |
| Risso, Ashley M.    | Structural Analysis of a Small Volume Offshore Aquaculture Cage System Utilizing Numerical Modeling and Scaled Physical Testing                            |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Ocean Engr:Ocean Mapping

| Author       | Thesis Title  |
|--------------|---|
| Schmidt, Val | Underwater Tracking of Humpback Whales (Megaptera Novaeangliae) with High-Frequency Pingers and Acoustic Recording Tags |

#### Plant Biology

| Author            | Thesis Title  |
|-------------------|---|
| Mahoney, Lise L   | Investigation of Cyanidin and Pelargonidin Contents in the Genus Fragaria L   |
| Nettleton, Jeremy | Ecology, Distribution, Quantification, and Impact of Introduced, Asian Porphyra Yezoensis F. Yezoensis Ueda and Porphyra Yezoensis F. Narawaensis A. Miura in the Northwestern Atlantic |

#### Political Science

| Author              | Thesis Title  |
|---------------------|---|
| Crocker, James A.   | Peace on G-d's Terms: The ideological project of Christian Zionism  |
| Kesling, Kristin D. | Climate change policy: Why Germany leads and the United States lags   |
| Lee, Rina           | Northeast Asian regional economic integration: Sino-Korean bilateral trade, 1992-2007   |
| Parshley, Susan D   | To the full court or 3JX? How does the supreme court of the State of New Hampshire sort cases?  |
| Platt, Rachel A.    | Recovery policy. The Endangered Species Act and the Yellowstone Grizzly Bear (Ursus arctos horribilis): A case study analysis of the role and function of environmental organizations |
| York, Matthew T.    | Post-Cold War Russian Foreign Military Assistance to Iran: Advancing the National Interest, or the Special Interest?  |

#### Psychology

| Author            | Thesis Title  |
|-------------------|---|
| Bemis, Rhyannon H | "I remember when I learned that!": Gender differences in the use of episodic memory |
| Dobias, Joshua J  | Temporal dynamics of the Venetian Blind Effect                                      |

#### Reading



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title   |
|-----------------------|--|
| Petrozzelli, Annmarie | Three Points of the Phonics Triangle: An Equilateral Relationship among Pseudoword Reading, Name Reading, and Spelling |

#### Resource Economics

| Author            | Thesis Title   |
|-------------------|--|
| Vachon, Andria R. | Economic and Environmental Considerations for Construction and Demolition (C&D) Debris Management and Policy |

#### RMP:Recreation Admin

| Author          | Thesis Title  |
|-----------------|---|
| Butch, Scott C. | A Study of Organizational Culture in Campus Recreation: A Competing Values Approach   |
| Ott, Matthew R. | An Analysis of the Impact of Service Quality on Satisfaction Value, and Future Intentions within Campus Recreation using Performed-Based Measures |

#### Sociology

| Author                        | Thesis Title  |
|-------------------------------|---|
| Dillon, Leslie Nichole        | Role Stress, Role Resources, and Mental Health Outcomes Among Recreational Runners  |
| Hinchee, Brian M.             | Family context of children and youths experiencing online interpersonal victimization   |
| Kalosky, Jillian M.           | Reentering the community a criminal: A case study of jail inmates released from the Strafford County Department of Corrections      |
| Keller, Alexander C.          | Parents and Peers: Assessing the Impact of Same-Sex Parent-Adolescent and Same-Sex Peer Adolescent Associations on Teen Delinquency |
| Turcotte-Seabury, Catherine A | The impact of federal violence against women grants upon two New Hampshire cities: Case disposition and police report writing       |

#### Writing

| Author                | Thesis Title        |
|-----------------------|---------------------|
| Gutierrez, Stephen M. | The anarchist's son |
| Smith, James T.       | Stitching Granite   |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author          | Thesis Title   |
|-----------------|--|
| Vanharen, Amy K | Fearless search: The heroic story of the White Mountains' elite volunteer search and rescue team |

#### Zoology

| Author                | Thesis Title   |
|-----------------------|--|
| Capone, Mark K.       | Early performance of constructed oyster reefs in Great Bay, NH   |
| Colburn, Heidi Regina | Investigation of the Sex Determination Mechanisms in Summer Flounder ( <i>Paralichthys Dentatus</i> ) and Black Sea Bass ( <i>Centropristis Striata</i> )                            |
| Godkin, Warren T.     | The Effect of Cyanobacteria and their Chemical Cues on the Surface Area of the Third Thoracic Limb of <i>Daphnia</i>   |
| Hobbs, Erin Gordon    | Distribution and feeding behavior of early life stages of the Northern Shrimp, <i>Pandalus borealis</i> , in relation to the spring phytoplankton bloom in the western Gulf of Maine |

#### Academic Year of Graduation: Fall 2006 to Summer 2007

##### Animal Sciences

| Author               | Thesis Title  |
|----------------------|---|
| Klein, Courtney E.   | Transient Changes in Blood-Brain Barrier Integrity, Thermotolerance, and Heat Shock Protein Expression Following Brief, Hyperthermia in an In Vitro Model |
| Marone, Adele J.     | An analysis of accelerated atherosclerosis in the hyperglycemic hyperlipidemic Syrian F[1]B hamster   |
| Shea, Erin C.        | Serum IgG concentrations of neonatal calves fed colostrum replacer supplemented with lactoferrin  |
| Wilkinson, Nicole G. | MHC (B) Complex Recombinant Immune Response   |

##### Biochemistry

| Author      | Thesis Title   |
|-------------|--|
| Liu, Yuting | Characterization of the Activation and Allosteric Regulation of Photoreceptor Phosphodiesterase (PDE6) |

##### Chemical Engineering

| Author                | Thesis Title  |
|-----------------------|---|
| Ferrentino, Justin M. | Microalgal Oil Extraction and In Situ Transesterification |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title                           |
|---------------------|--|
| Gill, Maninder Kaur | Simulation and Control of Process      |
| Saripalli, Priya M. | Degradation of Methyl Tert Butyl Ether |

#### Chemistry

| Author               | Thesis Title   |
|----------------------|--|
| Childers, Matthew L. | I. Complexation of Fe(II), Co(II), Ni(II) and CU(II) by exadentate tripodal aminopyridyl chelators II. Binding preferences for Zn(II) relative to Ni(II) and Cu(II) in novel tetradentate aminopyridyl chelators |
| Li, Jingwei          | The Coordination Chemistry of a Chelating Tricycle Bisamidine and a New Synthetic Route to a C2-Symmetric Tricycle Bisamidine  |
| Lindell, Allison L.  | Synthetic Approaches to CIS, CIS-1,3,5- Triaminocyclohexane (Tach) and Tach-Based Ligands  |
| Pu, Qinglin          | The Tandem Zic-Mediated Chain Extension-Iodomethylation Reaction and its Applications  |

#### Civil Engineering

| Author              | Thesis Title  |
|---------------------|---|
| Briggs, Joshua F.   | Performance Assessment of Porous Asphalt for Stormwater Treatment                                     |
| Gaudreau, Rebekah J | Structural modeling of full depth concrete deck panels  |
| Lachance, Aaron M.  | Properties of Asphalt Mixtures Containing RAP   |
| Pitre, Jonathan G.  | Improving the sound absorbing capacity of portland cement concrete pavements using recycled materials |
| Rauch, Linda M.     | Treatment of Dioxin/Furan and PCN Contaminated Sediments with Palladized Magnesium                    |
| Roche, John T       | Modeling of a Sort Sensitive Marine Silty Clay Deposit for a Landfill Expansion Study                 |
| Unger, Michael C.   | The Role of the Schmutzdecke in E. Coli Removal in Slow Sand and Riverbank Filtration                 |

#### Communication Sci & Disorders

| Author | Thesis Title |
|--------|--------------|
|--------|--------------|

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title   |
|-----------------------|--|
| Bauerly, Kimberly R.  | The Dynamic Relationship of Sentence Complexity, Childhood Stuttering, and Grammatical Development |
| Hughes, Kristen Doran | Evidence Based Practice for Emergent Literacy Intervention for Children who use AAC                |

#### Computer Science

| Author           | Thesis Title   |
|------------------|--|
| Henley, Morel R. | Software Tools for Comparing Genomic Sequence  |
| Kim, Myung-Sun   | Simple authentication and security layer incorporating extensible authentication protocol                    |
| Shams, Sadaf     | Volume Visualization of Time-Varying Data Using Parallel, Multiresolution and Adaptive-Resolution Techniques |
| Todd, Stephen J. | Comparing the XAM API with File System Programming   |

#### Counseling

| Author                  | Thesis Title  |
|-------------------------|---|
| Atwater, Brent R        | A graduate career services program for a regional business school: Facilitating the career growth and development of MBA students               |
| Baker, Jason R.         | Attachment bond, parental death, and parental divorce as predictive variables of depression.  |
| Jordan, Tara            | A Psychoeducational Group Designed for the Social Supporters of Sudden Infant Death Syndrome Parents  |
| Khawlane, Sophia Dongas | The Bicultural World of Daughters of Greek Immigrants: Acculturation and Psychological Adjustment   |
| Laroche, Katie L.       | The facilitation of well-being through direct contact with family-of-origin for securely attached children in residential out-of-home placement |
| Libby, Erin D           | Gender socialization : implications for gender differences in self-concept among adolescents  |
| Lijoi, Jennifer L.      | The relationship between variations of physical activity and psychological well-being in a clinical population                                  |
| Long, Ryan M.           | Cybercounseling : a comparison of the elements of counseling sessions face-to-face and over instant message                                     |
| McCutchen, Marisa A     | Awareness of a mental health diagnosis and its correlation with an individual's self-esteem, self-efficacy, and subjective social status        |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title   |
|-------------------|--|
| Regal, Cheryl D.  | Aiding Foster Children in Their Construction of Self: Clinical Intervention Strategies for Children in Care  |
| Rizk, Dahlia      | Moving beyond choosing us or choosing them : the role of self-esteem, self-efficacy, and perception of discrimination in the development of Arab American racial identity status |
| Roy, Heather J.   | The male perspective : the psychological experience of a male whose wife is diagnosed with breast cancer   |
| Sable, Sarah E    | Overview of the methods of physical improvement and the prevalence of steroid use in high school male student athletes   |
| Wenzler, Fritz P. | Completing the circle : the mindset and therapeutic implications of the wilderness solo  |

#### Earth Sciences

| Author              | Thesis Title  |
|---------------------|---|
| Fopiano, Jason D.   | Use of EPA's Industrial Waste Management Evaluation Model (IWEM) to Support Beneficial use Determinations     |
| Lambert, Thomas D.  | The Effect of Air Pollution and Time Spent Outdoors on Pulmonary Function in a Diverse New England Population |
| Phillips, Stephen C | High frequency measurements of soil carbon dioxide flux at Harvard Forest                                     |

#### Earth Sciences: Geology

| Author              | Thesis Title   |
|---------------------|--|
| Schorzman, Kerri C. | Geochemical Evolution of Basaltic Tuya in Iceland During the Last Deglaciation |

#### Earth Sciences: Oceanography

| Author            | Thesis Title  |
|-------------------|---|
| Bates, Michael J. | Modeling physical controls on northern shrimp ( <i>Pandalus borealis</i> ) dispersal, retention and settlement success in the Gulf of Maine |

#### Electrical Engineering

| Author              | Thesis Title  |
|---------------------|---|
| Bogucki, Robert A.  | Augmented Reality Device for First Response Scenarios   |
| Bourbeau, Edward A. | A Prototype System for Human-Computer Interaction Logging, Post-Processing, and Data Visualization for the Project54 System |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title  |
|---------------------|---|
| Glynn, James M      | Acoustic calibration and bathymetric processing with a Klein 5410 sidescan sonar              |
| Jadhav, Deepak R.   | Word boundary detection   |
| Khankin, Maxim      | Quantitative Assessment of In-Vehicle-Generated EMI in a Real-World Environment               |
| Kundoor, Meghana R. | Design and Implementation of a 10 Gigabit Ethernet XAUI Test Systems                          |
| Ramsey, Eric R.     | A Software Based Apco Project 25 Data Transmission Base Station for Local Police Headquarters |

#### Family Studies

| Author                 | Thesis Title  |
|------------------------|---|
| Ruset, Codruta Aurelia | Is Romanian Mothers' Employment Status During a Child's First Year of Life Correlated with School-Age Children's Behavior Problems? |

#### Genetics

| Author                 | Thesis Title   |
|------------------------|--|
| Challa, Vasavi R.      | Analysis of ADC2 and SAMDC1 Expression and the Effects of Transgenic Manipulation of Polyamine Biosynthesis on Flower Development in Arabidopsis |
| Chervincky, Kathryn M. | Clacium Dependant Protein Kinases in Physcomitrella Patens   |
| Ser, Jennifer R.       | A survey for sex determination systemsin [sic] East African Lake Malawi cichlids   |

#### History

| Author            | Thesis Title  |
|-------------------|---|
| Allen, Bethany H. | The Annals of Hildesheim  |
| Baures, Heather L | The Use of John Adams as a Historical Character 1789-1874                       |
| Kilinc, Aykut     | Oil, Honor and Religion: United States Foreign Policy Towards Turkey, 1923-1927 |

#### Hydrology

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title  |
|-------------------|---|
| Marbet, Hallie J. | Hydrogeologic characterization of fractured rock : Site 32, Portsmouth, New Hampshire |

#### Justice Studies

| Author              | Thesis Title   |
|---------------------|--|
| Bulcock, Jennifer A | How Kant Would Chose to Die: A Kantian Defense of Euthanasia |
| Skinner, Jacob W.   | Power and Punishment in Nietzsche                            |

#### Kinesiology

| Author                | Thesis Title  |
|-----------------------|---|
| Kern, Michael D.      | Teacher Concerns About Service learning   |
| Moore, Kristina Lynne | "My Parents Made me do it!" Parental Influences on Self-Handicapping: Athletes' Perception and Goal Orientation |

#### Liberal Studies

| Author             | Thesis Title  |
|--------------------|---|
| Hunter, Cheryl A.  | Mythological heroes and the presence of the hero and journey archetypes in The Lord of the Rings and Harry Potter |
| Magrath, Lauren R. | The effect of involvement on collegiate binge drinking : an examination of competing social theories              |
| Scaife, Michael O. | Ecological resources within Advaita Vedanta   |

#### Materials Science

| Author             | Thesis Title  |
|--------------------|---|
| Barasc, Marine J.  | Molecularly Imprinted Polymers for the Detection of Caffeine in Water                           |
| Cabane, Etienne    | Nanoparticle Mediated Oral Delivery of Insulin  |
| Crosbie, Diane E.  | Catalytic emulsion polymerization of norbornene   |
| Roy, Sayantan      | Analyte Rebinding of Optimized Molecularly Imprinted Polymers in Water                          |
| Zimmerman, John H. | Fabrication and Tribological Properties of Hard Thin Films with Solid Lubricant Microreservoirs |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Mechanical Engineering

| Author                | Thesis Title   |
|-----------------------|--|
| Conrad, Rebecca A.    | Development and Characterization of a Side Scan Sonar Towfish Stabilization Device   |
| Desfosses, Bennett W. | An improved power threshold method for estimating tool wear during milling   |
| Luo, Lu               | Thin-Film Dynamics Above a Periodically-Stretched Alveolar Substrate   |
| Mushaweh, Neil A.     | An observer-based attitude and nutation control and flexible dynamic analysis for the NASA Magnetospheric Multiscale Mission                           |
| Olson, Oliver L.      | A comparative study of the Extended Kalman Filter and Sliding Mode Observer for orbital determination for formation flying about the L2 Lagrange point |
| Raymond, Jason J.     | Development of a Numerical Model to Predict Impact Forces on a North Atlantic Right Whale During Collision with a Vessel                               |
| Turmelle, Chad A      | Development of a 20-ton capacity open ocean aquaculture feed buoy  |
| Wolff, Gregory T.     | Retinal Tracking System Design for Smart Flashblindness Non Lethal Weapon  |

#### Microbiology

| Author                    | Thesis Title  |
|---------------------------|---|
| Benton, Christopher S     | Activation of Toll-Like Receptor 2 Through TLR2-LRR Binding Synthetic Peptides      |
| Wrocklage, Christopher C. | Salmonella Enterica Serovar Typhimurium Promotes Apoptosis in Activated Neutrophils |

#### NatRsrc:Environmental Consvrtn

| Author               | Thesis Title   |
|----------------------|--|
| Coletti, Heather A.  | Correlating Sea Otter Density and Behavior to Habitat Attributes in Prince William Sound, Alaska: A Model for Prediction             |
| Ikemoto, Rika        | Improving the Policy Making Process in Municipal Solid Waste Management: Learning From Minamata-City, Japan                          |
| Thomas, Robert Q     | Consequences of Fine-Scale Heterogeneity on Predictions of the Carbon Cycle Using Lidar Data and a Height-Structured Ecosystem Model |
| Wingard, Hanna Sofia | Invasion of transition hardwood forests by exotic Rhamnus frangula: Chronology and site requirements.                                |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### NatRsrc:Soil Science

| Author                | Thesis Title  |
|-----------------------|---|
| Errickson, William J. | Red Clover as a Living Mulch: Implications for Sustainable Agriculture and Environmental Conservation   |
| O'Reilly, Lindsay     | Potential methane production and oxidation in shallow-water adapted wetland plant communities : Investigating a diversity-function relationship |

#### NatRsrc:Water Resources

| Author               | Thesis Title   |
|----------------------|--|
| Flint, Shelby A      | Impacts of palustrine wetlands on surface water quality in the Lamprey River watershed, NH                   |
| Legere, Kathleen A.  | Nitrogen Loading in Coastal Watersheds of New Hampshire: an Application of the Sparrow Model                 |
| Peter, Christopher R | Can Plant Competition and Diversity Reduce the Success of Exotic Phragmites Australis Invading a Slat Marsh? |

#### NatRsrc:Wildlife

| Author                   | Thesis Title  |
|--------------------------|---|
| Freidenfelds, Nicole A.  | An Experimental Approach to Understanding the Impact of Vernal Pool Buffer Size on Wood Frogs ( <i>Rana Sylvatica</i> )                                   |
| Musante, Anthony         | Characteristics and Dynamics of a Moose Population in Northern New Hampshire  |
| Tash, Jeffrey P.         | Status, Distribution and Broad Scale Habitat Features Associated with Remnant Populations of New England Cottontails ( <i>Sylvilagus Transitionalis</i> ) |
| Veysey Powell, Jessica S | Effects of Forrest Clear Cutting on Spotted Salamander ( <i>Ambystoma Maculatum</i> ) Migration   |

#### Natural Resources

| Author           | Thesis Title   |
|------------------|--|
| Dailey, Gail D   | Methyl Halide Production in Fungi  |
| Rivers, David O. | Assessing the Suitability of the Eelgrass ( <i>Zostera Marina L.</i> ) Deep Edge as an Indicator of Water Clarity in Estuarine Systems |
| Saas, Eric J.    | Microbial functional capacity among natural and created wetlands in Ohio, U.S.A  |

#### Nursing

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Curtis, Catherine Z | Utilization of Evidence Based Practice Principles to Implement Organizational Values |
| Riley, Eileen       | Breastfeeding Attitudes of Junior and Senior Nursing Students                        |

#### Occupational Therapy

| Author              | Thesis Title  |
|---------------------|---|
| Bellen, Jennifer L. | Mothers of Children with Developmental Disabilities: A Study of the Meaning of Leisure Occupations          |
| Morell, Lauryn J.   | What Really is the Difference Between Occupational Therapy and Physical Therapy in a Skill Nursing Facility |

#### Ocean Engineering

| Author               | Thesis Title  |
|----------------------|---|
| Fullerton, Brett G.  | Development of two automated feed buoys for submerged fish aquaculture net-pens |
| Leung, Kimberly D.   | Hydrodynamic modeling of Hampton/Seabrook Harbor, New Hampshire                 |
| Rice, Glen Alexander | Investigation of a Submerged Four-Bay Mooring System for Aquaculture            |

#### Ocean Engr:Ocean Mapping

| Author               | Thesis Title   |
|----------------------|--|
| Soares Rosa, Luis A. | Seafloor Characterization of the Historic Area Remediation Site Using Angular Range Analysis |

#### Physics

| Author                 | Thesis Title   |
|------------------------|--|
| Hamilton, Kathleen E.  | Generation and Measurement of Surface Plasmon Coupled Emission |
| Marcolongo, Anthony C. | Kaon Nucleon Scattering in Lattice QCD                         |

#### Plant Biology

| Author          | Thesis Title  |
|-----------------|---|
| Papineau, Amy C | Sexual Compatibility and Seed Germination in Nolana Species |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author           | Thesis Title   |
|------------------|--|
| Rice, Charles F. | Expression Profiling of the Spermidine Synthase3 (SPDS3) and Spermine Synthase (SPMS) Genes During the Life of Aribidopsis |

#### Political Science

| Author                | Thesis Title   |
|-----------------------|--|
| Gupta, Jennifer E.    | Independent or undeclared : the role of the undeclared voter in the New Hampshire presidential primary   |
| Johnson, Brad         | A case study in natural resource policy : Yellowstone cutthroat trout ( <i>Oncorhynchus clarki bouvieri</i> ) in the Greater Yellowstone Ecosystem |
| Labore, Craig J       | An examination of the nursing home industry  |
| Noloboff, Nicholas R. | The Family in Tocqueville's Democracy in America: Understanding Difference in the Age of Equality  |
| Wright, Lori Gula     | Swing Voters? Roman Catholics From 1992 to 2004  |

#### Psychology

| Author                       | Thesis Title  |
|------------------------------|---|
| Bucolo, Donald O             | Race Salience in Defense Attorney Opening and Closing Statements : The Effects of Ambiguity and Juror Attitudes |
| Stiegler-Balfour, Jennifer J | The accessibility of spatial information : two competing views  |

#### Reading

| Author            | Thesis Title   |
|-------------------|--|
| Wellman, Irene H. | A New Focus on the Social Side of Literacy: Community, Play, and Heterogeneous Grouping in an After School, Student Publishing Program |

#### Resource Administration & Mgmt

| Author            | Thesis Title  |
|-------------------|---|
| Rogers, Shannon H | Characterization of public and stakeholder objectives in environmental management : the application of conjoint analysis and other survey tools to the management of the Lamprey Rive |
| Steltzer, Eric    | Cape Wind- Public Values and Perceptions: Application of Contingent Valuation Method  |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### RMP:Recreation Admin

| Author             | Thesis Title  |
|--------------------|---|
| Foss, Rebecca L.   | The Nonprofit HUMAN Service Sector: Understanding an Organization's Capacity to Innovate            |
| McLaughlin, Sean R | The effects of knowledge and integrative complexity on acceptance of federal wilderness designation |

#### Sociology

| Author               | Thesis Title   |
|----------------------|--|
| Gibb, Sarah L.       | Transcending the Body: The Role of Divine Mind in the Practice of Christian Science Healing    |
| Marks, Rachel A.     | The Effects of Market Transition on the Distribution of Health Care in China: 1991-2000        |
| Redman, Amy L        | Hospice Nurses, Spiritual Development and a Changing Health Care Paradigm                      |
| Schreiner, Karen E.  | The Disneyization of Service Work in Financial Organizations                                   |
| Shattuck, Anne M     | Job Characteristics and the Psychological Well-Being of Older Workers                          |
| Stransky, Michelle L | Perceptions of a Generation Gap by Contact and Perceptions of Intergenerational Responsibility |

#### Writing

| Author                | Thesis Title                                 |
|-----------------------|--|
| Abbott, Kate          | Bare skin in the rain                        |
| Fetters, Lee D.       | Children in Ohio                             |
| Goldberg, Midge C     | Postscripts                                  |
| Horvath, Timothy D.   | Goodbye in many languages                    |
| Larrabee, Hannah R.   | Virgo : poems                                |
| Longfellow, Elizabeth | Backward heart                               |
| Tandon, Jason         | Give over the heckler and everyone gets hurt |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author           | Thesis Title  |
|------------------|---|
| Waldon, Laura M. | An (un)civil battle : behind the struggle for the nation's first same-sex marriages |

#### Zoology

| Author              | Thesis Title   |
|---------------------|--|
| Bailey, Meredith A. | A Test of the Nutrient-Productivity Model in the Gulf of Maine USING the Intertidal Mussel <i>Mytilus Edulis</i>   |
| Bonner, Kaitlin M.  | Evaluation of a Putative Entomopathogenic <i>Caenorhabditis</i> (Nematoda: Rhabditid) and Associated <i>Serratia</i> (Proteobacteria: Enterobacteriaceae)                                      |
| Carlson, Sonya C.   | Toxin Producing <i>Microcystis Aeruginosa</i> a Trade off in the Verticle Distribution of Three <i>Daphnia</i> Species as Predicted by the Ideal Free Distribution with Costs Model            |
| Fuda, Kristen M.    | Environmental Effects on Early Life Stages of American Shad ( <i>Alosa Sapidissima</i> ) and Rainbow Smelt ( <i>Osmerus Mordax</i> )   |
| Kean, William S.    | Reproductive ecology variation and molecular phylogeography in the garter snakes of northern New England ( <i>Thamnophis sirtalis sirtalis</i> L. 1758, and <i>T.s. pallidulus</i> Allen 1899) |
| Strait, Katie A.    | The Effects of Photoperiod and Water Temperature on the Reproductive Development of Black Sea Bass, <i>Centropristis Striata</i>   |
| Teck, Sarah J       | Native Gastropods and Introduced Crabs: Shell Morphology and Resistance to Predation in the New England Rocky Intertidal Zone  |
| Tornick, Jan K      | Nest Guarding and Aggression in the Red-Backed Slamander, <i>Plethodon Cinereus</i>  |
| Westerman, Erica L  | Impacts of changing water temperatures on the life histories of two invasive ascidians in the Gulf of Maine : <i>Botryllus schlosseri</i> and <i>Botrylloides violaceus</i>                    |

#### Academic Year of Graduation: Fall 2005 to Summer 2006

##### Animal Sciences

| Author             | Thesis Title   |
|--------------------|--|
| Carlyon, Melissa K | The Expression of Heat Shock Protien 70, Heat Shock Protein 90 and Heat Shock Factor 1 within the Bovine Midcycle Corpus Luteum After Stimulation with Temperature in Vitro and PGF2a In Vitro and in Vivo |
| Cherry, Jessica A  | Microvascular Endothelial Cells of the Bovine Corpus Luteum: A Comparative Study of the Estrous Cycle and Pregnancy  |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title   |
|--------------------|--|
| Crawford, Carly A. | Effects of Essential Oil Supplementation of Corn Silage Based Diet Fed to Lactating Holstein Dairy Cows  |
| Gilman, Martha L.  | Proteomic Differences Between Atherosclerosis-Susceptible White Carneau and Atherosclerosis-Resistant Show Racer Pigeon Aortic Smooth Muscle Cell Cultures |
| LaMarca, Craig J.  | Effects of STZ Induced Hyperglycemia and Hyperlipemia on PPAR $\gamma$ and ABCA1 in a Hamster Model of Atherogenesis                                       |
| Ricketts, Bryon F. | Temporal Expression of Protein Mediators During PGF $2^*$ -Induced Luteolysis in Sheep   |
| White, Rebecca A.  | Lactoferrin and the Neonatal Calf: IGG Absorption Intestinal Development, and Intestinal Function  |

#### Biochemistry

| Author             | Thesis Title  |
|--------------------|---|
| Baron, Michael P.  | The Relationship Between Estradiol and Gonadotropin Releasing Hormone (GnRH) in the Brain of the Sea Lamprey, <i>Petromyzon Marinus</i> |
| Terew, Jennifer M. | Characterization of a 17 kDa Phosphodiesterase 6 Interacting Protein and Cone Photoreceptor Isolation and Purification                  |
| Tierney, Julie A.  | Isolation and Characterization of TLR2-LRR-Binding Peptides   |

#### Chemical Engineering

| Author               | Thesis Title   |
|----------------------|--|
| Bulusu, Vinod        | An Experimental Study on the Buoyancy- Driven Motion of Air Bubbles in Square Channels |
| Coggon, Robert A.    | Transesterification of Trolein by Solid Catalysts                                      |
| Dalton, Jason J.     | Evaluation and Modeling of Evacuated Cryogenic Insulations                             |
| Dupont, Alison Welch | Remediation of Methyl Tert-Butyl Ether in Water  |
| Lao, Jessie          | Analysis of Blood Flow Dynamics in a Simple Microvasuclar Network                      |
| Zhang, Jian          | Zeolite 4A and Zeolite 5A Manufacturing Process Simulation and Optimization            |

#### Chemistry

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title   |
|-----------------------|--|
| Collette, Floraine M. | Supramolecular Engineering of Vesicles Via Self-Assembly: Application to Drug Delivery |
| Konrad, Kaleen M      | Theoretical and Experimental Studies of Reactive Organic Molecules                     |
| Lee, Wei-chih         | Group 12 and Group 13 Metal Complexes of Cross- Bridged Tetraamine Macrocycles         |

#### Civil Engineering

| Author                | Thesis Title   |
|-----------------------|--|
| Bicja, Josif          | Post-Yield Nonlinear Behavior of Structural Steel Beam-Column Elements   |
| Calante, Irina        | Optimization of PCB Dechlorination with Palladized Magnesium in Marine and Freshwater Sediments  |
| Collins, James R      | Use of Native Biodosimetry to Validate MPHO and LPHO UV Reactors   |
| Gonzalez, Carolina E. | Permeable Reactive Barriers for Contaminant Control in Beneficial use Applications in Highways   |
| Marusic, Mirjana      | Multi-Axial Anisotropic Material Behavior Using a Collection of Yield Surfaces to Model the Stress-Space Coupling Phenomena  |
| Morgan, Thomas J      | Development of an Alternative Laboratory Compaction Method for Granular Fill Materials   |
| Nourse, William A.    | Development and Evaluation of a Sediment-Based Flowable Fill and the Creation of Models for Key Physical Properties  |
| Scott, Hugh C         | Mitigating Alkali Silicate Reaction in Recycled Concrete   |
| Townsend, Bryan R.    | UV Inactivation of MS-2 Bacteriophage in Combined Sewer Overflow: An Evaluation of the Impact of UV Technologies, Water Quality and Pretreatment on UV Disinfection Efficiency |
| Weymouth, Thomas S    | Evaluation of Characterization Techniques for Beneficial use of Underutilized Slag Materials   |
| Wildey, Robert A.     | Stormwater Management Measures and Fecal Indicator Bacteria  |

#### College Teaching

| Author            | Thesis Title   |
|-------------------|--|
| Cofrin, Michael P | Psychopathological Symptoms and Their Relation to Paranormal Belief and Illusory Judgement |

#### Communication Sci & Disorders





## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Chouinard, Lynda D. | Early Identification of Children with Asperger Syndrome: Communication Characteristics   |
| Woodacre, Emily E.  | A Comparison of the First Fifty Words of Typically Developing Children to the First Fifty Words of Typically Developing Children Exposed to Manual Communication |

#### Computer Science

| Author                 | Thesis Title  |
|------------------------|---|
| Goel, Sachin           | Performance Evaluation of TCP Over IEEE 802.11              |
| Haque, Ehteshamul      | Modified IPACT Scheme for Ethernet Passive Optical Networks |
| Sayles, Christopher R. | Accelerated Mesh Building Using GPU-Based Depth Peeling     |

#### Counseling

| Author                      | Thesis Title   |
|-----------------------------|--|
| Bowen, Erin F               | The Power of Film: A Model For the Use of Group Cinimatherapy in the Therapuetic Treatment of Clinically Depressed Adolescents |
| Burcalow, Sarah Muller      | An Intervention Tool for use Against Gender Stereotypes in Childeren   |
| Dionne, Nicole M.           | Exercise as a Form of Treatment for Children Diagnosed with ADHD: A Treatment Manual   |
| Edwards, Michael            | Does Nature Matter? The Role of Environmental Stressors on Restoration and Psychophysiological Symptoms                        |
| Hanes, Christopher W.       | The Reciprocal Relationship Between Social Information Processing Deficits and Levels of Aggression                            |
| Hopey, Adam S.              | Counselors-in-training: A Correlation Study of Nonverbal Sensitivity and Empathy   |
| Horton, Jennifer A.         | A Model Leadership Curriculum for Managers of an Eden Alternative Nursing Home   |
| Rowe, Jennifer L            | Abstract A Training Model of the Effects of Mental Rehearsal on the Performance of Elite Collegiate Nordic Skiers              |
| Scribner, Melinda A.        | Surviving Intimate Partner Violence and Rape: A Case Study   |
| Swogger, Nicholasandreas H. | Dialectical Behavior Therapy for Community Mental Health Shaping a Model from Relevant Literature                              |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                   | Thesis Title   |
|--------------------------|--|
| Torney, Donna St. Pierre | Parenting Self-Efficacy, Family Resiliency and Mindfulness: A Holistic Model for a Parenting Education Group Utilizing Mindfulness Meditation Training |

#### Earth Sciences

| Author                   | Thesis Title   |
|--------------------------|--|
| Denoncourt, Catherine L. | Calibration of cosmogenic CL-36 production rates from postglacial lava flows in Iceland                                      |
| Krusic, Anna G.          | Pliocene Glacial Geology and Climate in McMurdo Dry Valleys, Antarctica  |
| Ziemba, Luke D           | Particle Acidity and Particle Number Concentration Events at a Rural Site in New England: Seasonal Trends and Source Regions |

#### Earth Sciences: Geology

| Author            | Thesis Title  |
|-------------------|---|
| Eller, Michael P. | Radar Facies and Structure of the Late Pleistocene Marine and Deltaic Outwash Deposits near the Glacial-Marine Limit in Coastal New Hampshire |
| Kerwin, Charles M | Structure and Bedrock Geology of the Massabesic Gneiss Complex in Southern New Hampshire  |

#### Earth Sciences: Oceanography

| Author            | Thesis Title  |
|-------------------|---|
| Brown, Takashi K. | Non-Reactive Gas Dynamics in the Pascataqua Estuary Inlet |

#### Economics

| Author           | Thesis Title  |
|------------------|---|
| Coffield, J. E.  | Major League Baseball's Labor Market Revised: The Addition of Superstar Players |
| Karlsson, Joakim | Incidence of Ticket Taxes and Fees in U.S. Domestic Air Travel                  |

#### Electrical Engineering

| Author                          | Thesis Title                                  |
|---------------------------------|---|
| Ayalasomayajula, Chandra Sekhar | Keyboard use as a Predictor for onset fatigue |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                              | Thesis Title  |
|-------------------------------------|---|
| Beckwith, Jonathan A.               | A Matlab and Software Defined Radio Approach to Teaching Digital Communications                       |
| Clark, Timothy R.                   | Simulating Gaussian Crosstalk for DSL Testing   |
| Grabowski, Marcin                   | Telematic Systems for Automotive Applications   |
| Kim, Sung Yun                       | Prototype Remote Vehicle Diagnostics for Police Cruisers  |
| Lynskey, Eric R                     | Conformance Testing Epon Devices  |
| Nagaraju, Bhagirathi                | Trigraph Latency As a Method to Infer Fatigue   |
| Plante, Matthew A.                  | A Software Defined Radio Communication Laboratory Experience  |
| Sharma, Chanchal                    | Prototype Distributed GUI for the Project54 System  |
| Sharma, Nishi                       | Impact of Differential Modal Delay on Optical Link Performance in Multimode Fibers                    |
| Srimattirumalaparlerlamudi, Brund A | System to Measure Typing Force, Speed to Estimate Fatigue   |
| Subhani, Shibli                     | Non-Invasive and Seamless Technology to Monitor Fatigue for Long Term Typing on a Laptop Cursor Plate |
| Zhou, Jianhua                       | A User Friendly System to Measure Electromyographic Activity of Dancers                               |

#### Family Studies

| Author           | Thesis Title  |
|------------------|---|
| Glesner, Talia J | Rural Low-Income Mothers Experiences with Foster Care |

#### History

| Author           | Thesis Title  |
|------------------|---|
| Kiefer, Anna E.  | "Through an Almost Impenetrable Wood": Logistics and the British Army in North America, 1755-1758 |
| Rice, Jonathan B | The Pragmatic Peace: The American Peace Movement and the Washington Naval Conference              |

#### Hydrology

| Author | Thesis Title |
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title  |
|---------------------|---|
| Proto, Paul J.      | The Significance of High Flow Events in the Lamprey River Basin, New Hampshire, For Annual Elemental Export and Understanding Hydrologic Pathways |
| Romesser, Eileen T. | Water Allocation Methodology to Maintain Instream Flows in Unregulated Rivers: Case Study Applied to the Lower Sunwanne River, Florida            |

#### Justice Studies

| Author             | Thesis Title  |
|--------------------|---|
| Roberts, Patrick A | Change in Family and Peer Adverse Life Circumstances in Relation to Juvenile Firesetting  |
| Soule, Janine M.   | Television Exposure, Feelings of Fear and Confidence in the United States Government: Is the Government Using the Media to Create a Culture of Fear |
| Torres, Julian E.  | Marx's Humanism   |

#### Kinesiology

| Author             | Thesis Title   |
|--------------------|--|
| Laws, Amanda E.    | Examining the Relationship Between Psychological Skills and Confidence in Goal Keepers |
| McKee, Margaret M. | Aggressive Tendency and Moral Function in Elite Girls' Ice Hockey                      |

#### Liberal Studies

| Author            | Thesis Title  |
|-------------------|---|
| Calamari, Rita    | Wonderland  |
| Lardas, Kristin L | The lens of fear : expanding and contracting the aperture in cinema's new global thriller                 |
| Lee, Margaret A.  | A Study of the Psychological Effects of Early Childhood Emotional Trauma on the Poetry of Alfred Tennyson |

#### Mechanical Engineering

| Author            | Thesis Title   |
|-------------------|--|
| Jacobson, Douglas | Mult-Tooth End Mill Runout Estimation  |
| Schuyler, Chad K. | Feedrate Optimization and Tool Condition Monitoring of Flat End Milling Operations Utilizing Spindle Motor Power |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author         | Thesis Title   |
|----------------|--|
| Towle, Erick C | Improving the Spatial Ability of Engineering Students: Development of Tools and Procedures |

#### NatRsrc:Environmental Consvrtn

| Author             | Thesis Title   |
|--------------------|--|
| Silva, Hudson C.   | Carbon Dioxide Fluxes from Coarse Woody Debris in Undisturbed and Logged Areas at the Tapajos National Forest in Brazil                                    |
| Tardie, Peter S    | A Change Detection Analysis: Using Remotely Sensed Data to Assess Development in Essex County, Massachusetts from 1990 to 2001                             |
| Toepfer, Michael A | Settlement Pattern Analysis of 18th-Century European Settlements Using a Geographic Information System: A Case Study of One Northern New England Community |

#### NatRsrc:Forestry

| Author                 | Thesis Title   |
|------------------------|--|
| Bishop, Jesse B        | An Evaluation Of The Effect of Terrain Normalization on Classification Accuracy of Landsat ETM-Imagery           |
| Eisenhaure, Stephen E. | Alterations in Soil Acidity and Nutrient Composition Following Fire Use at Four New England Forest Sites         |
| Fast, Andrew J D       | A Comparison Between Catastrophic Wind Damage and Endemic Damage in Bartlett Experimental Forest, New Hampshire  |
| Huntley, Ryan D.       | Characterizing Vegetation Associated with Cenotes in Quintana Roo, Mexico using Remote Sensing and Field Methods |

#### NatRsrc:Soil Science

| Author            | Thesis Title  |
|-------------------|---|
| Lloyd, Kirsten L. | The Relationship between Fine Root Chemistry and Foliar Chemistry among Northeastern U.S Tree Species |
| Smith, Heather    | Microbial Community Structure and Function in Response to Soil Warming                                |

#### NatRsrc:Water Resources

| Author              | Thesis Title  |
|---------------------|---|
| Errickson, Lauren A | Relationship Between Groundwater Quality and Landscape Characteristics in the Lamprey River Watershed |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author         | Thesis Title   |
|----------------|--|
| Smagula, Amy P | A watershed evaluation of Partridge Lake, Littleton, New Hampshire : Development of a hydrologic and total phosphorus budget |

#### NatRsrc:Wildlife

| Author              | Thesis Title   |
|---------------------|--|
| Johnson, Vanessa S. | Examining the Role of Spatial and Temporal Scale on the Prevalence of Invasive Shrubs in Early-Successional Habitats |
| Scarpitti, David L. | Seasonal Home Range, Habitat Use, and Neonatal Habitat Characteristics of Cow Moose in Northern New Hampshire        |

#### Natural Resources

| Author            | Thesis Title  |
|-------------------|---|
| Sallade, Sarah K  | Patterns and Processes of Soil Carbon Dynamics in a Northeastern United States Forest                       |
| Schilz, Mariya H. | Understanding changes in aboveground biomass and height with elevation at Hubbard Brook Experimental Forest |
| Watanabe, Naoko   | Abiotic Retention of Nitrogen and Dissolved Organic Matter by Forest Mineral Soils                          |

#### Nursing

| Author           | Thesis Title   |
|------------------|--|
| Paris, Pamela E  | A Comparison of Preceptor Attributes Important to the Development of Effective Teaching/Learning Relationships |
| Rizwana, Rizwana | Current Intrapartum Care Practices in India  |

#### Nutritional Science

| Author          | Thesis Title   |
|-----------------|--|
| Hoppe, Andrea A | The Effects of Polybrominated Diphenyl Ethers (PBDEs) on Adipocyte Functionality: In Vivo and In Vitro   |
| Olley, Bryony J | Longitudinal Changes in Zinc Transporter Relative Protein Abundance in Response to Moderately Excess Zinc in an in Vitro Blood-Brain Barrier Model |

#### Occupational Therapy

| Author | Thesis Title |
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                     | Thesis Title   |
|----------------------------|--|
| Bodkin, Leslie J           | Early Intervention and Occupational Therapy: A Study of Expert Early Intervention Occupational Therapist               |
| Donoghue, Carrie P         | Influencing of Using the School Version of the Assessment of Motor and Process Skills on Occupational Therapy Practice |
| Granda, Jessica L.         | Early Intervention and Occupational Therapy: A Study of Expert Early Intervention Occupational Therapist               |
| Slater, Amy Draper         | Inhibition Taping for the Treatment of Lateral Epicondylitis   |
| Stewart-Whipple, Jessica L | Evaluation of a New Fall Risk History Survey for Clinical Use in an Acute Care Hospital                                |
| Ward, Danielle B.          | Occupational Therapy at the High School Level: An Expert's Perception  |

#### Ocean Engineering

| Author              | Thesis Title  |
|---------------------|---|
| McGillicuddy, Glenn | Characterization of Weak Rope Through the Design and Construction of a Portable Tensile Testing Machine |

#### Ocean Engr:Ocean Mapping

| Author              | Thesis Title   |
|---------------------|--|
| Brennan, Richard T. | An Uncertainty Model for the Tidal Constituent and Residual Interpolation (TCARI) Method of Water Level Correction |

#### Physics

| Author          | Thesis Title   |
|-----------------|--|
| Legere, Jason S | Developing a Compton Polarimeter to Measure Polarization of Hard X-Rays in the 50-300 KeV Energy Range |

#### Plant Biology

| Author           | Thesis Title   |
|------------------|--|
| Bestic, Amy E.   | Micronutrients in Horticulture: Sources and Testing  |
| Bradley, Adam F. | The Flora and Vegetation of Timber Island, Lake Winnepesaukee, New Hampshire                                     |
| Brese, Robin L.  | The Development and Utilization of EST (Expressed Sequence Tag) Resources in the Diploid Strawberry Model System |
| Quintana, Andrea | Studies of Flower Color in <i>Anagallis monelli</i> L.   |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                  | Thesis Title   |
|-------------------------|--|
| Serapiglia, Michelle J. | Nitrogen Metabolism in Red Spruce  |
| Shields, Melanie E      | Construction and Characterization of a Large-Insert Genomic Library for <i>Fragaria</i> (Rosaceae) |

#### Political Science

| Author                  | Thesis Title  |
|-------------------------|---|
| Bena, Michael A         | CAN LESS MEAN MORE IN INTERNATIONAL AID: Public Opinion of International Assistance in Ghana  |
| Bramlett, Stephanie S   | Media, Race, and Attitudes Towards People on Welfare  |
| Cole, Benjamin R        | Framing Shenzhou: Creating a Sino-American Space Race   |
| Gosline, Christopher E. | Conflict, Trade, and Economic Interdependence: An Investigation of Interstate Trade Ties and their Effect on Hostility Levels within the Post-Cold War Period |
| Powell, Nicole          | Elite Perceptions and the Adoption of an Extremist Policy of Genocide: A comparative Case Study of Armenia and Rwanda   |

#### Psychology

| Author                | Thesis Title  |
|-----------------------|---|
| Morris, Carol Selover | Parent-Child Conversations about the Past: Correlations with Socioeconomic Status and Parenting Style |

#### Sociology

| Author           | Thesis Title   |
|------------------|--|
| Dumais, Diana L. | Talking About Abortion: A Qualitative Examination of Women's Abortion Experiences  |
| Fox, Susan W     | The Relationship Among Stress, Choice, and Depression for Parents in the In-Home Support Program                                 |
| Keirns, Tracy A  | Too Much of a Good Thing? Association Between Extracurricular School Activities with Depression and Substance Use in Adolescents |
| Kelly, Maura F.  | U.S Television News Representations of Welfare, 1992-2004  |

#### Zoology

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Elzey, Scott P.     | Investigations of Sexual Dimorphisms in the Dentition of Four Skate Species from the Western Gulf of Maine               |
| Galuardi, Benjamin  | Geolocation of Pop-up Satellite Archival Tags: Optimal Smoothing of Sea Surface Temperature for Kalman Filter Estimation |
| Kneebone, Jeffrey R | Validated Age and Growth Estimates for the Tiger Shark <i>Galeocerdo cuvier</i> , in the Western North Atlantic          |
| Watters, Jessa L.   | Foraging behavior in two lizard species : <i>Sceloporus virgatus</i> and <i>Sceloporus jarrovi</i>                       |

### Academic Year of Graduation: Fall 2004 to Summer 2005

#### Animal & Nutritional Sciences

| Author           | Thesis Title   |
|------------------|--|
| Morrell, Jesse S | The Effects of Exogenous Dheas (Dehydroepiandrosterone-Sulphate) on Adiposity and Energy Utilization in Female Swine |

#### Animal Sciences

| Author             | Thesis Title   |
|--------------------|--|
| Cowles, Kathryn E. | Lactoferrin Addition to an Intensified Milk Replacer Feeding Regimen   |
| Liptak, Amy R      | Cooperative Expression of Monocyte Chemoattractant Protein-1 Within the Bovine Corpus Luteum: Evidence of Immune Cell-Endothelial Cell Interactions in a Co-Culture System |
| Sullivan, Brian T  | Cellular Susceptibility to Cytokine-Induced Apoptosis: Influence of Cytokeratin-18 Expression  |

#### Biochemistry

| Author                | Thesis Title  |
|-----------------------|---|
| Houde, Estelle M.     | Characterization of the Specificity of Peptides Containing the Motif [G/P]-(3)[L/V/I/F]                       |
| Jose, Michael J       | The Localization of AHK1 and CK12 in <i>Arabidopsis Thaliana</i>  |
| Valeriani, Beverly A. | Regulation of Bovine Cone Photoreceptor Phosphodiesterase by CGMP Binding and by its Inhibitory Gamma Subunit |

#### Chemistry

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Eichert, Heather S. | New Methods for Quantitative Glycosphingolipidomics: Development and Application to <i>C. elegans</i> Glycobiology |
| Li, William H.      | New Synthetic Routes to Strained Organic Molecules   |

#### Civil Engineering

| Author                    | Thesis Title  |
|---------------------------|---|
| Bacca-Cortes, Gabriel F.  | Land Use Influence on the Characteristics of Groundwater Inputs to the Great Bay Estuary, New Hampshire   |
| Deming, Diana P.          | Bioventing of No. 2 Fuel Oil: Effects of Air Flowrate, Temperature, Nutrient Amendment and Acclimation    |
| Miranda, Isabel A.        | The Effects of Land-Applied Biosolids on Infiltration Water Quality                                       |
| Provost, Jeffrey C        | Evaluating Microbial Challenges to Precoat Filtration   |
| Tsiatsios, Christopher J. | An Assessment of Metal Release From Contaminated Estuarine Sediment Using Batch and Column Leaching Tests |

#### Communication Sci & Disorders

| Author                     | Thesis Title   |
|----------------------------|--|
| Lipsky, Jacqueline Russell | An Investigation of Preschool Oral Language Improvements Through Ladders to Literacy |

#### Computer Science

| Author            | Thesis Title   |
|-------------------|--|
| Chadda, Ankur V   | Quality of Service Testing Methodology   |
| Chen, Xionghui    | A Graphical User Interface Model for Scientific Data Visualization and Exploration   |
| Clark, Kevin D.   | Evaluating the Performance of Hyperion, A Distributed Shared Memory Implementation of Java                                       |
| Cosgrove, David W | Coverage Path Planning Using Path Transform Motion Planning to Determine Complete Coverage Routes for Bathymetry Mapping Vessels |
| Ma, Kevin J       | Web Service-Based SNMP   |
| Merrell, Myles E. | Scheduling Humans: Balancing Flexibility with Predictability   |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Natham, Karthikeyan | A New Method for Perceptually Optimized Visualization of Two Layered Flow Fields |
| Patel, Minti        | Design and Implementation of ISCSI Extensions for RDMA                           |
| Quinn, Matthew A.   | Automatic Illustration of Ocean Currents   |
| Tessier, James V.   | Benchmarking and Analysis of Fault Protection Performance in Computer Networks   |
| Velingkar, Amit A   | Combined Spatial and Directional Queries on Complex Scenes                       |
| Xu, Fanny D.        | An Architecture for Public Internet Disks  |

#### Counseling

| Author               | Thesis Title  |
|----------------------|---|
| Andrews, Eric S      | The Implementation and use of Client Information Management Software Technology in Mental Health Counseling Settings  |
| Campbell, Morgan M.  | A School-Based Mentoring Model for Adolescent Females Aimed at Increasing Self-Concept, Academic Achievement, and a Healthy Lifestyle                             |
| Dowling, Anne Venier | Is it Rape or Bad Sex: Towards a Conceptual Model of Factors Affecting Young Women's Naming Process of a Nonconsensual Sexual Experience with a Male Acquaintance |
| Dyer, Kristi L.      | A Therapeutic and Educational Group Model in Support of Parents Experiencing the Empty Nest Transition  |
| Gay, Carol L.        | Re-Visioning Relationship: A Group Therapy Model for Women Survivors of Domestic Violence   |
| Long, Celeste M.     | A Comparison Of Reintegration of Special Education Students with Severe Emotional Difficulties Following in-District and Out-of-District Placements               |
| Massey, Lisa Feldman | Obesity and Overweight in People Diagnosed with Schizophrenia: Weight Management in a Residential Setting   |

#### Early Childhood:Special Needs

| Author            | Thesis Title   |
|-------------------|--|
| Bogaard, Claire J | Exploring the Emotional Perspectives of Pediatricians Who Care for Children with Chronic Illness and Disabilities and Their Effects on Parent-Professional Relationships |

#### Earth Sciences



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title  |
|-------------------|---|
| Fischer, Emily V. | Ozone and Bulk Aerosol Measurements at Mount Washinton: Relationships to Air Mass Transport                           |
| Russo, Rachel S   | Impact of Regional Transport on Atmospheric Chemistry in Two Regions Part I: The Western Pacific Part II: New England |
| Voisin, Daniel T. | A 2000-Year History of Antarctica Volcanism From Tephra in the Siple DOME Ice Core                                    |

#### Earth Sciences: Geology

| Author             | Thesis Title   |
|--------------------|--|
| Schulz, Jeffrey E. | Metamorphic Petrology and Structural Implications of the Calcareous (Unnamed) Member of the Berwick Formation Within the Epping 7.5 Minute Quadrangle Southeast, New Hampshire |

#### Economics

| Author                 | Thesis Title   |
|------------------------|--|
| Carruthers, Celeste K. | The Effectiveness of DUI Legislation: Evidence from traffic Fatalities and Self-Reported Offenses, 1987-1996 |

#### Electrical Engineering

| Author                        | Thesis Title  |
|-------------------------------|---|
| Allen, Corey L                | FPGA To Asic Technology Migration Of Fingerprint Authentication Microsystem   |
| Brogan, Daniel S              | Narrow-Beam Monopulse Technique for Bathymetry and Seafloor Acoustic Backscatter Imagery with a Volume Search Sonar |
| Krishnamoorthy, Visak         | Promotions and Event Management Tool (PEMT) Development Using .NET Technology (ASP.NET)                             |
| Krstovski, Kriste             | Handheld Project54 Speech User Interface  |
| Srinivasa-Raghavan, Prashanth | Network Management Using NET-SNMP   |
| Surineni, Shravan K.          | Software Defined Radio Prototyping of IEEE 802.11 Wireless Lan Protocols  |
| Turner, Laslo                 | Project54 Speech User Interface Performance Evaluation  |
| Wilson-Remmer, Kaitlin J.     | Automatic Vehicle Location in New Hampshire Law Enforcement   |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title   |
|--------------------|--|
| Zoksimovski, Arsen | Underwater Communication Channel Characterization in the Southern California Off-Shore Range |

#### Family Studies

| Author                 | Thesis Title                               |
|------------------------|--|
| Ryan-Kern, M Elizabeth | Young Women's Perceptions of Sexual Desire |

#### History

| Author             | Thesis Title  |
|--------------------|---|
| Ramsey, Meeghan E. | Super K: Henry Kissinger and the Nixon Administration |

#### Hydrology

| Author             | Thesis Title   |
|--------------------|--|
| Cullity, Alison K. | Trends in New England Hydroclimate as Reflected in the Record of the Pemigewasset River at Plymouth, NH                                      |
| Faivre, Emily B.   | A Bioeomorphological Model of Stream Health for Mountain Streams in North Georgia  |
| Lisichenko, Peter  | The Application of the Rosgen Method of Stream Classification to the Hancock Branch Watershed, White Mountain National Forest, New Hampshire |
| Lowry, Brian P     | Evapotranspiration Estimation Methods for Sacramento Soil Moisture Accounting Model Streamflow Predictions                                   |

#### Justice Studies

| Author                | Thesis Title  |
|-----------------------|---|
| Burbank, Melissa Anne | Stressed Out or Out of Control? A Test of Stress/Strain and Control Theories of Criminal Behavior Across Race |
| McClary, Michael J    | Police Occupational Identity and Family Violence  |

#### Kinesiology

| Author            | Thesis Title  |
|-------------------|---|
| Reefe, Kathryn L. | The Effectiveness of an Intentionally Focused, Residential Summer Camp Experience on the Social Skill Development of Pre-Adolescent Youth |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author     | Thesis Title  |
|------------|---|
| Tan, May G | Examining the Impact of an Outward Bound Singapore Program on the Life Effectiveness of Adolescents |

#### Liberal Studies

| Author              | Thesis Title   |
|---------------------|--|
| Anderson, Cheryl A. | Female Prostitution and the Women's Movement in Vivtorian England  |
| Sommese, Cheryl M.  | The Cloth and Sin: Covered Sexual Abuse and the Catholic Hierarchy |
| Wright, Zebulon C   | I am the Universe The Universe is my Body                          |

#### Materials Science

| Author                | Thesis Title  |
|-----------------------|---|
| Blais, Christopher B. | Atmospheric Pressure Deposition of Silicon Nitride Thin Films Using a Dielectric Barrier Discharge as a Plasma Source |
| Ogier, Julien E.      | Polyurethane Polymerization Kinetics  |
| Zhang, Mingxia        | Preparation of Transparent Antifouling Coatings by Miniemulsion Polymerization  |

#### Mechanical Engineering

| Author              | Thesis Title   |
|---------------------|--|
| Jovovic, Vladimir   | Flow-Field Reconstruction From Surface Signatures Via an Adjoint Equations Approach                                |
| Kestler, Kenneth J. | Development of Special Finite Elements for Dynamic Analysis of Flexible Structures in the Moving Fluid Environment |
| Moondra, Sumit      | Numerical Simulation Investigations to Support a Stress Based Failure Criterion for Sheet Metal Forming            |

#### Microbiology

| Author                     | Thesis Title   |
|----------------------------|--|
| Katz, Bradley D.           | Evaluation of Bacteriophage and Enteric Virus Inactivation in Alkaline Stabilized Biosolids Intended for Land Application              |
| Mascio, Carmela Tindara M. | Purification of the Staphylococcal ArsB Protein in Escherichia Coli C41 (DE3) Cells Which Enable over- Production of Membrane Proteins |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                  | Thesis Title  |
|-------------------------|---|
| Taylor, Michael Anthony | Determination of the Integration Site of pCD1 Within the Chromosome of <i>Yersinia pestis</i> |

#### NatRsrc:Environmental Consvrtn

| Author                | Thesis Title  |
|-----------------------|---|
| Girod, Carolyn M.     | Evaluating United States Carbon and Fire Management Strategies through Ecosystem Models |
| Magness, Katherine B. | Development of Fishing Policy in the Gulf of Maine, Late 19th Century                   |
| Wilhelm, Jennifer Ann | Natural Relationships: The Human-Nature Experience Within School Garden Programs        |

#### NatRsrc:Soil Science

| Author             | Thesis Title                                  |
|--------------------|---|
| Alexander, Jess E. | Foliar and Soil Chemistry in Northern Bohemia |

#### NatRsrc:Water Resources

| Author               | Thesis Title  |
|----------------------|---|
| Macy, Jordan G.      | Initial Effects of Nitrogen Additions in two Rainforest Ecosystems of the Luquillo Mountains, Puerto Rico |
| Madden, Nadia T.     | Scaling Up: Estimates of Basin-Scale Riparian Nitrogen Flux in the Rio Icacos, Puerto Rico                |
| O'Donnell, Tracey E. | Suburbanization, Water Quality and Property Values in Three Northern Forest Watersheds                    |
| Strauss, Jessica L.  | Detachment of <i>Escherichia coli</i> From Saturated Porous Media in Laboratory Columns                   |

#### NatRsrc:Wildlife

| Author                   | Thesis Title   |
|--------------------------|--|
| Eckert, Matthew D.       | Estimating Field Metabolic Rate of Captive Deer in Winter: A Comparison of Three Methods   |
| Mattfeldt, Sandra D.     | Effects of Wetland Isolation and Surrounding Landscape Characteristics on Vernal Pool-Dependent Amphibians                         |
| Suomala, Rebecca Waldron | Migrant Songbird Species Distribution, Behavior, and Habitat Use During Stopover: A comparison of Two Islands in The Gulf of Maine |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Natural Resources

| Author             | Thesis Title  |
|--------------------|---|
| Fleeger, William E | Building Social Infrastructure: Creating and Sustaining Community Capacity for Ecosystem-Based Management A Case Study of the Ashland watershed |
| Ingraham, Peter A  | Detecting Rich Mesic Forest: A Remote Sensing and Geographic Information Systems Approach   |

#### Nursing

| Author            | Thesis Title  |
|-------------------|---|
| Dudek, Pamela J   | The Relationship Between Perceived Work Environment and Intent to Leave of Operating Room Nurses  |
| McLain, Dorothy A | Computer Based Nutritional Education: Does it Effect the Choices Adolescents Make About Nutrition |
| Wolfe, Kim L      | The Relationship Between Empowerment of Nurses and Self-Actualization                             |

#### Nutritional Science

| Author                   | Thesis Title   |
|--------------------------|--|
| Gauthier, Nicole A.      | ZnT-1 mRNA Expression in Response to Excess Zinc in Brain Capillary Endothelial Cells  |
| Gerweck, Catherine A.    | The Effect of Egg Consumption on Macular Pigment Optical Density and Serum Carotenoid and Lipid Concentrations in Females Ages 21-53 |
| Gowdy-Johnson, Brooke M. | Effects of Hyperglycemia on Inflammation in Hamster Atherogenesis  |
| Moutsoulis, Athena A.    | Dietary Conjugated Linoleic Acid Appearance in Human Breast Milk   |
| Sheehan, Joseph P.       | Effect of Zeaxanthin Supplementation on Retinal and Serum Biomarkers   |

#### Occupational Therapy

| Author                  | Thesis Title   |
|-------------------------|--|
| Hatch, Jennifer         | The Effects of Massage on Motor Performance and Weight Gain in Infants and Toddlers    |
| Spear, Patricia Shepard | Betwixt and Between: Transition From Early Intervention to Special Education Preschool |

#### Ocean Engineering

| Author | Thesis Title |
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title                                       |
|-------------------|--|
| Aydinoglu, Zeynep | Hydrodynamic Modeling of the Great Bay Estuary, NH |

#### Ocean Engr:Ocean Mapping

| Author                | Thesis Title  |
|-----------------------|---|
| Malik, Mashkoor Ahmad | Identification of Bottom Fishing Impacted Areas Using Multibeam Sonar and Videography |

#### Plant Biology

| Author                     | Thesis Title   |
|----------------------------|--|
| Argyross, Aaron N.         | Myristoylation of Calcium-Dependent Protein Kinases From Arabidopsis Thaliana  |
| Cui, Hua                   | Effects of Nitrogen Fertility and Plant Density on Vegetative and Reproductive Development in Seed Pumpkin (Cucurbita Pepo L.)   |
| Currier, Victoria Davidson | The Effect of Long Day Exstension on Flowering and Fruit Size in Strawberry (Fragaria annassa, Duch)   |
| Nazaire, Mare              | A Study of the Vegetation and Floristic Diversity of Two Peatland Complexes of Post-Settlement Origin in Lake Umbagog National Wildlife Refuge, Coos County, New Hampshire |
| Ouellette, Amy B           | Effects of Reflective Interrow Mulch and Plant Density on Yield of Fresh Market Tomoato  |
| Palmatier, Billy J         | Factors Effecting the Settling and Vertical Distribution of the Cyano Bacteria, Planktothrix Rubescens; An Artificial Water Column Experiment                              |

#### Psychology

| Author            | Thesis Title  |
|-------------------|---|
| Lassonde, Karla D | The Activation of Predictive Inferences: Understanding What Information is Made Available in Memory |

#### Reading

| Author               | Thesis Title   |
|----------------------|--|
| Gahm, Holly H.       | The Impact of Bimodal CComputer Software on Reading Comprehension and Rate on Adolescent Learners          |
| Johnson, Ehrin Clegg | The Impact of Word Prediction and Speech Synthesis Software on the Written Language of Adolescent Learners |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Resource Administration & Mgmt

| Author        | Thesis Title  |
|---------------|---|
| Girard, Peter | Savings and Satisfaction: A Look at Decision Making Regarding Privatization and Cooperative Management in the Production of Municipal Services in New Hampshire |

#### Resource Economics

| Author             | Thesis Title  |
|--------------------|---|
| Wiersma, Joshua B. | Social Benefits and Economic Impacts of Cooperative Research to New England Fishing Communities |

#### Sociology

| Author                | Thesis Title   |
|-----------------------|--|
| MacKinnon, Timothy D. | Analyzing Protest Outcomes in an Anti-Globalization Context                      |
| Ridgeway, Theresa M.  | The Social Structure of Non-Lethal Violence Testing Blackian-Derived Predictions |

#### Teacher Leadership

| Author                   | Thesis Title  |
|--------------------------|---|
| D'Agostino, Michelle Lyn | Perceived Problems and Concerns of Beginning Teachers: Implications and Recommendations |

#### Zoology

| Author                | Thesis Title  |
|-----------------------|---|
| Barry, Thomas M       | Molecular and Behavioral Investigations of Photoreception in The Green Sea Urchin, <i>Strongylocentrotus Droebachiensis</i>           |
| Benton, Christopher B | Investigations into Sex Determination and Sex Change in Black Sea Bass, <i>Centropristis Striata</i> L.                               |
| Greene, Jennifer K.   | Succesional Development of Fouling Communities on Aquaculture Fish Cages in the Western Gulf of Maine                                 |
| Henninger, Heidi P    | Sound Production and Detection in the American Lobster, <i>Homarus Americanus</i>   |
| Meyer, John J.        | Top-Down Effects on the Benthic Invertebrate Community in the Western Gulf of Maine Closure Area: A Measure of Reserve Effectiveness? |
| Rennels, Suzanne A    | Ecology of the Smooth Skate, <i>Malcoraja Senta</i> , and the Little Skate, <i>Leucoraja Erinacea</i> , in the Western Gulf of Maine  |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                   | Thesis Title   |
|--------------------------|--|
| Schnaittacher, Gwynne M. | An Investigation Of The Feeding Behavior Of Juvenile Atlantic Halibut ( <i>Hippoglossus hippoglossus</i> L.) and Its Application To Commercial Aquaculture |

#### Academic Year of Graduation: Fall 2003 to Summer 2004

##### Animal Sciences

| Author            | Thesis Title  |
|-------------------|---|
| Allen, Jillien F. | Expression of Cyclooxygenases-1 and -2, Steroidogenic Acute Regulatory Protein, and Heat Shock Protein-70 During Prostaglandin F <sub>2</sub> Alpha-Induced Luteolysis in Sheep |
| Reid, Eric D      | The Effects of Oral Chlortetracycline on Breeding Age Dairy Heifers   |
| Schuling, Sarah E | Urea Supplementation in a Corn Silage Based Diet Fed to Lactating Holstein Dairy Cows   |

##### Biochemistry

| Author                 | Thesis Title  |
|------------------------|---|
| Couture, Megan J.      | Differential Binding of Phosphorylated and Nonphosphorylated Estrogen Receptor Peptides to Proteins: Implication for Activation of Estrogen Receptors and SRC Family Kinases in Tamoxifen-Resistant Breast Cancers                        |
| Fisher, Jeremy R       | Isolation and Characterization of CCR4-LRR Binding Peptides   |
| Kavanaugh, Scott I     | Gonadotropin Releasing Hormone (GnRH) in Chordates: The Cloning of the GnRH Precursor and the Distribution of GnRH in the Tunicate <i>Clona intestinalis</i> and Seasonal Changes of GnRH in the Atlantic Hagfish <i>Myxine glutinosa</i> |
| Li, Jie                | Analysis of two-component signaling systems in <i>Arabidopsis thaliana</i>  |
| Root, Adam R.          | The relationship between gonadotropin releasing hormone (GnRH) and gamma amino butyric acid (GABA) in the brain of the sea lamprey, <i>Petromyzon marinus</i>   |
| Schultz, Bernardine M. | Microencapsulation of GnRH Analogs  |

##### Chemical Engineering

| Author            | Thesis Title                                    |
|-------------------|---|
| Koppula, Karuna S | Study of Gas Diffusion Layers in Pem Fuel Cells |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                   | Thesis Title  |
|--------------------------|---|
| Mannava, Poorna chand D. | Mercury Remediation by Dielectric Barrier Discharge     |
| Sanchez Garcia-Monco, F. | Enzyme Catalyzed Production of Biodiesel from Olive Oil |

#### Chemistry

| Author                    | Thesis Title   |
|---------------------------|--|
| Bennion, Beau B.          | Application of Mass Spectrometry to Structural and Functional Characterization of Glycosphingolipids   |
| Bullock, Kevin H          | Analytical chemical techniques for the detection and study of carbohydrates  |
| Fichter, Kerry A.         | Synthesis and Characterization of Ruthenium (II), Palladium (II), and Lanthanide (III) Bisamidine Complexes  |
| Huang, Jing               | Proteomic Study of a Novel Mussel Glycoprotein Involved in Biomineralization   |
| Kalainoff, Melinda Zapata | Statistical Thermodynamic Properties of Pure and Mixed Atomic Clusters on a 2-D Square Lattice   |
| Naggar, Estee F.          | Structural Characterization of the N-Linked Glycans of the Extrapallial Glycoprotein of the Mollusk Mytilus Edulis   |
| Przyborowska, Ann M.      | Complexation of Fe(II), Fe(III), Cu(II), and Zn(II) by Hexadentate Tripodal Aminopyridyl Chelators and the Role of Oxidative Dehydrogenation in Iron Complexes |
| Westover, David J.        | Synthesis and Characterization of Nitrated Poly (4-Hydrozostyrene) Microspheres as pH and Cation Sensors   |
| Zang, Jia                 | Development of Capillary Electrophoresis- Methods for Establishing Purity and Structural Integrity of Ferritins  |
| Zhou, Hua                 | Synthesis and Lithium Complexation of N-Aryl Cross-Bridged Macrocyclic Tetraamines   |

#### Civil Engineering

| Author               | Thesis Title   |
|----------------------|--|
| Aulisio, Deana Anne  | Dechlorination of Polychlorinated Biphenyls in Sediments Using Colloidal Zero-Valent Iron                      |
| Berg, Christopher D. | Clay Mobilization and Permeability Alteration in Sand by Surfactant Addition                                   |
| Bisirri, William M.  | Characterizing Fatigue Behavior of Concrete Materials Using a Dissipated Energy Approach                       |
| Brandt, Jamie G.     | Estuarine Copper Pollution Mitigation Utilizing Cation Exchange Resins in Conjunction with Membrane Filtration |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                     | Thesis Title  |
|----------------------------|---|
| Farabaugh, Steven E.       | Impact of Preozonation on the Ultraviolet Absorbance of the Water as it Relates to Ultraviolet Disinfection System Design |
| Fontaine, Nicola Ballester | Synergistic Disinfection of Adenovirus Type 2 and Study of Potential Biodosimetry Surrogates of Adenovirus                |
| Gaithuma, David R.         | Alternative Surrogates for Monitoring of Ultraviolet Disinfection Performance   |
| Grant, Geoffrey M          | Nutrient Enhanced in situ Bioremediation of a Petroleum Contaminated Salt Marsh   |
| Hadnagy, Emese             | The Evaluation of Competitive Adsorption on Selected Arsenic Adsorbents   |
| Martin-Doole, Melanie M.   | Factors Contributing to DXAA Formation During Chloramination  |
| Milender, Kenneth W.       | Debris Avalanche Hazards in Franconia Notch, New Hampshire  |
| Partinoudi, Vasiliki       | Riverbank Filtration as a Viable Pretreatment and Treatment Method  |
| Sadkowski, Stanley S       | The Use of Drilling Parameters on a Bedrock Bioremediation Project in Southeaster New Hampshire                           |
| Scangas, Angie Miles       | A Decision Support System (DSS) for Stormwater Management System Selection  |
| Weimer, Mindy L.           | Evaluation of Metal Availability from Portland Cement Manufactured with Contaminated Dredged Material                     |

#### Computer Science

| Author              | Thesis Title  |
|---------------------|---|
| Godsay, Chaitanya K | Experimental Evaluation of DOCSIS 1.1 Upstream Performance  |
| Kraft, Claire E.    | Design and Implementation of iFCP   |
| Kulkarni, Mugdha A  | The Effect of TCP Parameters on iSCSI Performance   |
| Shastri, Yamini     | Performance Evaluation of the iSCSI Protocol  |
| Stoddard, Jacob H.  | Tangent Driven Interpolative Subdivision  |
| Sullivan, Briana M. | Linking audio and visual information while navigating in a virtual reality kiosk display              |
| Tang, Xuan          | Integration Block Oriented Data Iteration with Multidimensional Caching for Large Scientific Datasets |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author | Thesis Title  |
|--------|---|
| Ye, Li | Representation of Adaptive Resolution Rectilinear Cell Data |

#### Counseling

| Author             | Thesis Title   |
|--------------------|--|
| Bizier, Brian M.   | Toward Mindful Conceptualization of Psychosis and Its Treatment      |
| Carey, Erika A.    | Hearing Each Voice: Counseling Learning Disabled Children in Schools |
| Nazzaro, Mary Beth | Effects of Daily Running on Depressive Symptoms of Children          |
| Richards, Karen N. | Filial Play Therapy  |

#### Early Childhood Education

| Author            | Thesis Title  |
|-------------------|---|
| Gomez, Rebecca E. | Story as Cultural Evolution: Young Children's Breach Narratives About Public Trauma |

#### Earth Sciences

| Author            | Thesis Title   |
|-------------------|--|
| Fernald, Erin M.  | The Roles of Anagenesis and Cladogenesis in Determining Rates of Morphological Evolution                                       |
| Irons, Zackary M. | Source Region Identification of Extreme Water-Soluble Nitrate and Sulfate Aerosol Concentrations at the New Hampshire Seacoast |

#### Earth Sciences: Geology

| Author          | Thesis Title   |
|-----------------|--|
| Hamzi, Walid M. | High Resolution Magnetostratigraphic Correlation across the Paleocene/Eocene Boundary in the Bighorn Basin, Northwestern Wyoming |

#### Earth Sciences: Oceanography

| Author | Thesis Title |
|--------|--------------|
|--------|--------------|

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title  |
|-------------------|---|
| Novak, Michael G. | Chromophoric Dissolved Organic Matter CDOM Form Estuarine, Coastal, and Offshore Waters of the Gulf of Maine: Measurement Techniques and Relationship to Dissolved Organic Carbon DOC |

#### Economics

| Author          | Thesis Title   |
|-----------------|--|
| Zhao, Min Qiang | Welfare Analysis in Discrete Choice Models: A Monte Carlo Simulation Study |

#### Electrical Engineering

| Author             | Thesis Title  |
|--------------------|---|
| Chan, Jason E.     | High-Frequency Modeling of Strip-Line Losses                                  |
| Crowley, Todd A.   | Biometric Driver's License Interoperability Test Bed                          |
| King, Brian J.     | Anode Electronics Development Realized in Very Large Scale Integration Design |
| Kozomora, Nevenka  | Modular System Software Architecture for the Pocket PC                        |
| Mocny, Jakub       | SOC Prototyping for Biometric Authentication                                  |
| Salah, Mohammad H. | Skill Transfer and Improvement Framework for a Simulated Robot                |
| Skrygulec, Artur   | Verification and Validation of the Biometrics Fingerprint System              |

#### Family Studies

| Author            | Thesis Title   |
|-------------------|--|
| Monahan, Diane M. | Parents' Perceptions: Family Communication About Sexual Issues |

#### Genetics

| Author         | Thesis Title                              |
|----------------|---|
| Howe, Aimee E. | The Genetic Basis of Red Color in Tilapia |

#### History



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title   |
|--------------------|--|
| Blake, Meredith B. | A Symbol of Neutrality: The British Foreign Enlistment Act |

#### Hydrology

| Author             | Thesis Title   |
|--------------------|--|
| Clarner, Philip J. | The Development and Testing of Generalized Resistance Flow Equations for Estimating Water-Surface Profiles |
| Ericson, Jason P.  | Relative Sea Level Rise in Deltas: Sources of Change and Future Implications                               |

#### Kinesiology

| Author                    | Thesis Title   |
|---------------------------|--|
| Ferencevych, Taras Sofron | The Development and Design of an Instrument to Measure Self-Authorship in Outdoor Education Programs |

#### Liberal Studies

| Author              | Thesis Title   |
|---------------------|--|
| Cavanaugh, Kevin P. | Establishment Clause Application: A Comparison Between Non-Traditional and Traditional Religions |
| Moser, Randolph S.  | The Psychedelic Revolution: From Myths of Liberation to the Liberation of Myths                  |

#### Mechanical Engineering

| Author                | Thesis Title  |
|-----------------------|---|
| Bravar, Matthew N.    | Analytical Model for Tailor Welded Blank Forming  |
| Koprubasi, Kerem      | Spacecraft Attitude and Angular Rate Estimation Using Sliding Mode Observers  |
| Nagaraju, Maruthi I.  | Large-Reynolds-Number Pseudospectral Simulations of Langmuir Circulation and Low-Mode Internal Waves using Hyperviscosity |
| O'Donnell, Michelle M | Linear Stability of the Discretely-Stratified Stokes-Ekman Layer  |

#### Microbiology

| Author | Thesis Title |
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title  |
|--------------------|---|
| Daniel, Imola      | The Opsonizing Effect of Porcine Mannan-Binding Lectin on Human U397 Macrophage-like Cells and its Effect on Tumor-Necrosis Factor-Alpha Production |
| Hansen, Karyn J.   | Investigating Aichi and Other Enteric Virus Presence in Wastewater Samples in the United States   |
| Moody, Krishna L.  | The Effects of the Stringent Response and Camp on Shiga-Like Toxin Production by Escherina Coli O157:H7   |
| Noel, Kristin R.   | Inclusion Body Formation in Acinetobacter Sp. RAG-1 and Other Bacteria During Growth on Alkanes   |
| Uhlenhake, Jill C. | Role of Outer Membrane Protein -C in Adherence of Salmonella Enterica Serovar Typhimurium to Human Neutrophils and Release of Interleukin-8         |

#### NatRsrc:Environmental Consvrtn

| Author                      | Thesis Title  |
|-----------------------------|---|
| Cummings, Meghan E.         | Approaches to Sustainability in Forested Regions: Measures of Forest Sector Dependence and Exploration of the Maine Sawmill Industry in the Northern Forest Bioregion |
| Nery Nascimento, Lucigleide | Assessing Progress Toward Ecological Sustainability in the Hudson River Ecosystem (NY) through Citizen Participation  |
| West, David K.              | Incorporating Globe Data into a Remotely-Sensed Change Detection Analysis of Androscoggin County, Maine   |

#### NatRsrc:Forestry

| Author              | Thesis Title   |
|---------------------|--|
| Asahina, Haruka     | Establishment of Mid-Tolerant Hardwoods in an Ecological Reserve: A Dendrochronological Study                  |
| Lennartz, Steven P. | Pixel- Versus Segement -Based Image Processing Thechniques f or Forest Cover Type Mapping Using Ikonos Imagery |

#### NatRsrc:Soil Science

| Author                | Thesis Title  |
|-----------------------|---|
| Kopsell, Amanda Gayda | Soil Phosphorus Thresholds and Runoff Content of New Hampshire Agricultural Lands |

#### NatRsrc:Water Resources

| Author | Thesis Title |
|--------|--------------|
|--------|--------------|

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Bozek, Catherine M  | Impacts of Seawalls on Salt Marsh Plant Communities in the Great Bay Estuary New Hampshire   |
| Eberhardt, Alyson L | Fish Versus Human Corridors: The Impacts of Road Culverts on Nekton Community Composition and Movement in New England Salt Marshes |

#### NatRsrc:Wildlife

| Author               | Thesis Title  |
|----------------------|---|
| MacGillivray, Lisa A | Effects of Sublethal Atrazine Exposure and Multiple Natural Stressors on <i>Rana sylvatica</i> Tadpoles   |
| Todd, Amy E.         | Population Distribution and Vegetative Structure of Brood Rearing Habitat of Spruce Grouse ( <i>Falco canadensis</i> ) in the White Mountain National Forest of New Hampshire |

#### Nursing

| Author           | Thesis Title                                     |
|------------------|--|
| Lynch, Daniel J. | Pet Bereavement: Elder Experience with Pet Death |

#### Nutritional Science

| Author              | Thesis Title   |
|---------------------|--|
| Vieira, Victoria J. | Insulin Resistance: A Possible Risk Factor for Atopy and Asthma Development in Women |

#### Occupational Therapy

| Author                     | Thesis Title  |
|----------------------------|---|
| Merrill, Kristen MacDonald | The Relationship Between Sensory Processing and Functional Performance in Children                                  |
| Waller, Laurie A           | Examination of the Effects of Increased Handwriting Instruction Time on Printing Legibility of First Grade Children |

#### Plant Biology

| Author           | Thesis Title  |
|------------------|---|
| Berg, Melanie A. | Physiological Factors Involved in Peduncle Maturation in <i>Cucurbita Pepo</i> L. |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author               | Thesis Title   |
|----------------------|--|
| Chretien, Robert L.  | Characterization of S-Adenosylmethionine Decarboxylase (samdc) and Arginine Decarboxylase (adc) Genes from Daucus Carota and their Expression During Somatic Embryogenesis |
| Mitchell, Jeffrey J. | The Expression of Polyamine Biosynthetic Genes: Arginine Decarboxylase (ADC2) and S-Adenosylmethionine Decarboxylase (SAMDC1)  |
| Wik, Ronald M.       | The Effect of Iron Form, Substrate-pH, and Iron Efficiency on Plant Nutritional Status   |

#### Political Science

| Author              | Thesis Title   |
|---------------------|--|
| Whitaker, Robert A. | Down the Stretch They Come- An Analysis of the Use of Metaphors in Associated Press News Coverage of the 2004 New Hampshire Presidential Primary |

#### Psychology

| Author            | Thesis Title   |
|-------------------|--|
| Hallmark, Joel T. | The activation of Multiple Predictive Inferences in a Constraining Context |

#### Resource Administration & Mgmt

| Author              | Thesis Title   |
|---------------------|--|
| Caporossi, Gregg A. | Comparison of Hypothetical Willingness-To-Pay Vs. Actual Payment for Open Space Via Public Referenda |
| Saunders, Shanna    | Unit Pricing for Solid Waste Management: How PAYT is Working in New Hampshire Communities            |
| Scribner, Kevin P.  | The Economic Impact of Mondadnock Community Hospital   |

#### Sociology

| Author              | Thesis Title   |
|---------------------|--|
| Callahan, James J.  | Forms of Social Control In Lowell, Massachusetts: 1845-1850  |
| Halter, Stephanie J | The Relationship Between Adolescent Social Bonds and Delinquency: Are Attachments to Parents, Schools, and Peers Protective Factors? |
| Helton, Jesse J.    | Type of Disability, Type of Maltreatment, and Child Protective Service Decisions Among a National Sample of Abused Children          |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title  |
|-------------------|---|
| Knox, Christy L.  | Corporal Pnuishment, Problem Solvins Skills, and Partner Violence                           |
| Morton, Beth A.   | Early Dropout Predictors and the Protective Role of Social Capital and Social Bonding       |
| Savage, Sarah A   | Types of Northern Places: A Cluster Analysis Approach to Empirical Community Classification |
| Watson, Jennie E. | Parents Hitting Children, Depression and Partner Assault: The Effect of Cultural Approval   |

#### Zoology

| Author                  | Thesis Title  |
|-------------------------|---|
| Baron, Michael P.       | Factors Affecting Pigmentation Development in Summer Flounder   |
| Degraaf, James D.       | Sperm Cryopreservation and Storage From Four Finfish Species  |
| Golet, Walter J         | Small-Scale Movements and Interaction of the Lobster Homarus Americanus with Traps  |
| Hinderliter, Matthew G. | Seasonal Movements, Habitat Usage, Home Range, and Conservation of SPotted Turtles (Clemmys Guttata) in Southern New Hampshire                            |
| Knox, Tania T.          | Male Size and Guarding Success in the Carrion Beetle Necrophila Americana   |
| Mandeville, Jennie M.   | Larval Haddock Diet Detection and the Nutritional Value of Varying Rotifer Enrichments and Weaning Diets  |
| Morin, Michael D.       | Movement of Atlantic Cod (Gadus Morhua) in and among the Western Gulf of Maine Rolling Closures as Determined through Mark and Recapture                  |
| Swasey, Jill Torregiani | Suseptibility of the Scleractian Corals, Pocillopra Damicornis and Montipora Verrucose to Ultraviolet Radiation: The Role of Mycosporine-Like Amino Acids |
| Whitmore, Greg D        | The Mayfly Fauna of Southern New Hampshire and Its Value in Aquatic Biomonitoring   |

#### Academic Year of Graduation: Fall 2002 to Summer 2003

##### Animal & Nutritional Sciences

| Author          | Thesis Title   |
|-----------------|--|
| Anderson, Janet | From RNA to DNA, the Construction of DNA Libraries from Pigeon Aortic Tissue: An Evaluation of Methods |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Animal Sciences

| Author                           | Thesis Title   |
|----------------------------------|--|
| Jeliazkova-Mecheva, Valentina V. | Two In Vitro Studies of the Blood-Brain Barrier: Effect on Short-Term Hyperthermia on Blood-Brain Barrier Integrity and a Novel Porcine Astrocyte/Endothelial Cell Co-Culture Model of the Blood-Brain Barrier |
| McLaughlin, Amy M.               | Evaluation of Lysine Supplements for Lactating Cows  |
| Schulten, Elizabeth S            | Immune Responses in Six Recombinant Lines Congenic for the Major Histocompatibility (B) Complex  |

#### Biochemistry

| Author              | Thesis Title  |
|---------------------|---|
| Findell, Jennifer L | Characterization of the Transmembrane Domain of the Plant Ethylene Receptors: Ethylene Binding and Localization Studies |
| Nucci, Nathaniel V  | Cloning and Expression Analysis of a GnRH Precursor from the Sea Lamprey, <i>petromyzon marinus</i>                     |

#### Chemical Engineering

| Author                  | Thesis Title   |
|-------------------------|--|
| Corsino, Margaret Kowal | Braided Rope Seals   |
| Fu, Yingjing            | Kinetics and Optimization of E. Coli Growth for Green Fluorescent Protein (GFP) Production |

#### Chemistry

| Author              | Thesis Title  |
|---------------------|---|
| Briggs, Jonathan    | Diels-Adler Reactions between [60] Fullerene  |
| Demeritt, Julie E.  | Studies in the Syntheses of BIS[60] Fullerene Adducts by 1,3-Dipolar Additions of Azonethine Ylides and Diels-Alder Chemistry |
| Himali, Dibya       | Synthetic Approaches to Polycyclic Aromatics and Reaction of Singlet Oxygen with Enynes and Diynes                            |
| Mathieu, Steven R.  | Investigations of Persistent Carbenes   |
| Tryder, Nancy L.    | The Zinc-Mediated Chain Extension Chemistry of Amino Acid-Derived Beta-Keto Amides  |
| Widlicka, Daniel W. | The Coordination Chemistry of Two Preconstrained Tricyclic Biimidazolines   |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Civil Engineering

| Author            | Thesis Title   |
|-------------------|--|
| Douglas, Craig W. | A Pilot Scale Study on the Effects of Naturally Occurring Turbidity on Ultraviolet Disinfection Performance for the City of Winnipeg, Manitoba |

#### Computer Science

| Author             | Thesis Title  |
|--------------------|---|
| Jiang, Feng        | Implementation and Performance Evaluation of Block-Oriented Adaptive Resolution for Multisource Scientific Datasets                     |
| Leonard, Matthew E | An Isosurface Continuity Algorithm for Rendering of Adaptive Resolution Tetrahedral Data  |
| Mitchell, Denise D | Design and Prototype of a Metadata Model for Multi-Source Scientific Datasources Using XML  |
| Reno, Mathew S.    | Comparing the Performance of Distributed Shared Memory and Message Passing Programs Using the Hyperion Java Virtual Machine on Clusters |

#### Counseling

| Author        | Thesis Title  |
|---------------|---|
| Logan, Mary K | A Framework for Therapy in the New Millennium: Managed Care and the Role of the Therapist |

#### Earth Sciences

| Author                       | Thesis Title   |
|------------------------------|--|
| Debell, Linsey J             | Impact of Asian Dust and Quebec Forest Fire Emissions on Atmospheric Chemistry in New England  |
| Feeney, Rachel G             | Geochemical Controls on the Hydrothermal Vent Fluids of the Kairei and Edmond Hydrothermal Fields, 23-25 Degrees South, Central Indian Ridge |
| Hunt, Christopher W.         | Spatial and Temporal Patterns of Inorganic Nutrient Concentrations in the Androscoggin and Kennebec Rivers, Maine                            |
| White-Jeanneau, Marguerite L | Methyl Bromide Cycling in Freshwater Peatlands   |
| Wilson, Adam Michael         | Air Quality, Weather, and Respiratory Visits to the Emergency Room in Portland, Maine and Manchester, New Hampshire                          |

#### Earth Sciences: Geology



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title  |
|-------------------|---|
| Ferguson, Eric W. | Temperatures and Pressures of Peak Metamorphism of the Stowe Mountain Formation in the Worcester Mountains, North-Central Vermont |

#### Electrical Engineering

| Author                     | Thesis Title  |
|----------------------------|---|
| Chintalapati, Anil K.      | Layered Driver Architecture for Network Connectivity over a Police Radio                                |
| Krishnamurthy, Saikrishnan | A Software Voice Gateway for Real Time Voice Over Broadband Interoperability Testing                    |
| Lynch, Richard L.          | AFARR: A Framework for Automatic Speech Recognition Research  |
| Martin, Michael E.         | Development of the Common Intelligent Transportation System Data Bus Interface for the Project54 System |
| Melnyk, Pavlo              | Mobile Digital Video System for Law Enforcement   |
| Mock, John H               | A Voice Over IP Solution to the Problem of Mobile Radio Interoperability                                |
| Mupparapu, Sai S.          | Robustness and Energy Efficiency of Ad Hoc Networks   |
| Pelhe, Albert              | One-to-One Communication between Objects in the Project 54 System Software                              |
| Pysareva, Khrystyna        | Design, Implementation and Validation of IEEE 1149.4 Compatible Systems                                 |
| Sathyendra, Harsha M.      | Transmission Line Modeling for Acupuncture Nodal Therapy  |
| Vedanabhatla, Kiranmai     | FPGA Design and Implementation of WAN Interface Sublayer for 10 Gigabit Ethernet                        |
| Venkatavaradan, Vinod K.   | FPGA Implementation of 10 Gigabit Ethernet XAUI System  |
| Venugopal, Veena           | Improvement of Robustness for Ad Hoc Networks through Energy-Aware Routing                              |
| Vidacic, Dragan            | Assessment of FDTD Model Parameters for Lossy Media   |

#### Family Studies

| Author           | Thesis Title                         |
|------------------|--------------------------------------|
| Minca, Elisabeta | People's Opinions of Infant Teachers |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Schulhoff, Susan E. | Parents in Prison: Perceptions of Parent-Child Relationships |

#### Genetics

| Author              | Thesis Title  |
|---------------------|---|
| Haynes, Victoria L. | Identification and Characterization of Protein Phosphate 2A Mutations in <i>Arabidopsis thaliana</i>        |
| Reavey, Peter A.    | Differential Fertility between Reciprocal F1 Hybrids and F2 Segregation Distortion in <i>Fragaria vesca</i> |

#### History

| Author              | Thesis Title   |
|---------------------|--|
| Watterson, Rodney K | Thomas Mott Osborne and Portsmouth Prison (1917-20): Progressive Reform in a Conservative Navy |

#### Kinesiology

| Author               | Thesis Title  |
|----------------------|---|
| Scanlon, Jennifer S. | An Examination of Factors Influencing Girls' Activity Choices |

#### Liberal Studies

| Author                  | Thesis Title  |
|-------------------------|---|
| de longh, Kathryn Sarah | Work and Spirituality in the Twenty-First Century   |
| Eggemeier, Katherine M  | "Loose in Body and Tongue": Women, Words and Wantonness in Early Modern England and in William Shakespeare's <i>Titus Andronicus</i> and <i>Othello</i> |
| Ercan, Courtney Bayse   | How the Second Wave of Feminism Affected Lady Bird Johnson, Pat Nixon and Betty Ford  |
| Moser, Julie Stevens    | Transformations: Incorporation, Gender and Imagination in Wallace Stegner's <i>Angle of Repose</i>  |

#### Materials Science

| Author           | Thesis Title   |
|------------------|--|
| Treat, Matthew B | Growth and Characterization of Ti-Si-N Films Grown by Pulsed Laser Deposition with a PLD TOF-QMS Plume Study |

#### Math:Applied Math





## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                 | Thesis Title  |
|------------------------|---|
| Lamontagne, Pamela A   | Local and NonLocal Solutions to the Damped, Driven, Nonlinear Schrodinger Equation      |
| Lopez, Rebecca Martel  | Stability and Approximation of PDE Models of Coupled Transmission Lines                 |
| Miller, Jason S.       | Numerical Methods for the Damped and Driven Nonlinear Schrodinger Equation              |
| Withington, Gabriel D. | Analysis and Simulation of Blood Flow Oscillations in Two Node Networks of Microvessels |

#### Mechanical Engineering

| Author             | Thesis Title   |
|--------------------|--|
| Doherty, Daniel P. | Peak Force Prediction Accuracy of a Rigid-Tool Discrete Mechanistic Force Model                                |
| Erzan, Yigit       | Accuracy Comparison of Force Prediction Models for End Milling of 7075 Aluminum, A2 Tool Steel and 64 Titanium |
| Kurgan, Can        | Fishcage and Multiple Mooring Systems Finite Element Modeling  |
| Yalcin, Cuneyt     | A Flexible-Tool Mechanistic Milling Force Model  |

#### Microbiology

| Author              | Thesis Title  |
|---------------------|---|
| Harris, Patricia L. | A Phenotypic and Genotypic Assessment of Microbial Community Diversity during in situ Composting of Class B Biosolids |

#### NatRsrc:Environmental Consvrtn

| Author              | Thesis Title  |
|---------------------|---|
| Eldredge, Edward R. | Above-Ground Controls on Carbon Dioxide Flux from Forest Soils  |
| Patel, Nikham M.    | Does Environmental Education Make A Difference? Examining Environmental Attitudes and Beliefs About Environmentally Responsible Behaviors Among University Undergraduate Students |
| Speltz, Michael J   | Hiking Trail Assessment Using Remote Sensing: A Pilot Study   |

#### NatRsrc:Forestry



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title  |
|-------------------|---|
| Jordan, Gregory J | Quantitative Assessment of COarse Woody Debris in a Managed Hardwood Forest |

#### NatRsrc:Soil Science

| Author             | Thesis Title   |
|--------------------|--|
| O'Neill, Dennis T  | Bench-Level Study of MTBE Remediation in Soils By Chemical Oxidation as Measured by a Convenient Headspace Analysis Method |
| Simpson, Rodney T. | Location of Microbial-Derived Organic Matter in Aggregates Isolated from Agricultural Soils                                |

#### NatRsrc:Water Resources

| Author               | Thesis Title   |
|----------------------|--|
| Blumberg, Jeremy E.  | Instream Nutrient Dynamics in Five First Order Tributaries in the Lamprey River Watershed, New Hampshire   |
| Bromley, Jonathan M. | Evidence for the Resuscitation of Chlorine-Induced Viable but Nonculturable Escherichia Coli in Estuarine Environments                                   |
| Evans, Nancy T.      | Transplanted Eelgrass ( <i>zostera marina</i> L.) in the Great Bay Estuary: Functional Equivalence, Long Term Trends, and Response to Disturbance        |
| Robinson, Dereck P   | Glomalin: A Potential Sink for Nitrogen and Possible Contributor to Dissolved Organic Carbon and Nitrogen within the Organic Soils of the Harvard Forest |

#### NatRsrc:Wildlife

| Author               | Thesis Title  |
|----------------------|---|
| Hamel, Jason P.      | Influence of Winter Supplemental Feeding on the Winter Bioenergetics and Reproduction of Eastern Wild Turkeys in New Hampshire                                  |
| Marchand, Michael N. | Effects of Landscape Composition on Rates of Nest Predation and Population Structure of Painted Turtles, <i>Chrysemys picta</i> , in Southeastern New Hampshire |
| Ross, Matthew D.     | Utilizing Wet Lab Chemistry Analysis and Near Infrared Spectroscopy of Deer Feces to Predict Supplemental Feeding in Winter Diets of White-Tailed Deer          |
| Timmins, Andrew A.   | Seasonal Home Range, Nesting Ecology, and Survival of Eastern Wild Turkeys in Northern New Hampshire  |

#### Nursing



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                   | Thesis Title   |
|--------------------------|--|
| Digeronimo, Christine L. | Knowledge of Pressure Ulcer Care among Licensed Nursing Assistants                                   |
| Parkinson, Mooneen G     | The Relationship Between Intrapartum Nalbuphine Administration and the Apgar Scores of Term Newborns |
| Ruka, Sandra L.          | Long-Term Care Nurses' Self-Perception of Their Role in End-of-Life Decision-Making                  |

#### Nutritional Science

| Author            | Thesis Title   |
|-------------------|--|
| Strouch, Marci B. | The Extracellular Cycli-Amp Adenosine Pathway in Isolated Adipocytes and Intact Adipose Tissue |

#### Occupational Therapy

| Author                | Thesis Title   |
|-----------------------|--|
| Garren, Karen R.      | Client/Therapist Stories-Therapeutic Relationship in a Hand Therapy Setting                                    |
| Kardos, Margaret R.   | The Role of the Occupational Therapist in Transition Planning  |
| Vose, Krista Reynolds | I Can Go In the Back Door If I Can't Go In the Front Door: A Case Study of Ethical Reasoning in Daily Practice |

#### Ocean Engineering

| Author          | Thesis Title   |
|-----------------|--|
| Ahern, John C   | The Validation of a Wave Measurement Buoy                              |
| DeCew, Judson C | Numerical and Physical Modeling of a SADCO Shelf Submersible Fish Cage |

#### Ocean Engr:Ocean Mapping

| Author           | Thesis Title   |
|------------------|--|
| Smith, Shepard M | The Navigation Surface A Multipurpose Bathymetric Database |

#### Physics

| Author             | Thesis Title   |
|--------------------|--|
| McClish, Mickel A. | The Characterization of Orthogonal Coplanar Strip CZT Detectors of 5 and 10 mm Thickness |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Plant Biology

| Author            | Thesis Title  |
|-------------------|---|
| Bilodeau, Linda J | Evaluation of Chemical Treatments for Correcting Medium-pH and Resultant Micronutrient Toxicities and Deficiencies Occurring on Floricultural Crops Grown in a Soilless Medium  |
| Bray, Troy L      | A Molecular and Morphological Survey of <i>Porphyra Purpurea</i> (Roth) C. Agardh (Rhodophyta, Bangiales) in the Northwest Atlantic   |
| Day, Jennifer P   | Effects of Solar Irradiance and Ammonium on Growth, Nitrogen Uptake and Pigment Content of <i>Porphyra Umbilicalis</i> Kutzing, <i>P. Linearis</i> Greville, <i>P. Leucosticta</i> Thuret in Lejolis, and <i>P. Amplissima</i> Kjellman |
| Hunt, Matt R      | Genes of Sulfur Assimilation in <i>Porphyra Purpurea</i>  |
| Jahr, Cassandra S | A Comparison of Floristic Biodiversity in Varying-Aged Created Wetlands in Southeastern New Hampshire   |
| Varma, Shalini    | Characterization of a SAMDC(S-Adenosylmethionine Decarboxylase) and an ADC (Arginine Decarboxylase) Gene from Carrot ( <i>Daucus Carota</i> L.)   |
| Wiley, Priya S    | Physiological Ecology of the Red Alga <i>Porphyra</i> (Rhodophyta, Bangiales)   |

#### Political Science

| Author              | Thesis Title  |
|---------------------|---|
| Tattar, Matthew A.  | The Persistence of U.S.Cold War Conventional Forces Strategy in the Post-Cold War World |
| Uscinski, Joseph E. | The Politics of Generation X: A Causal Argument   |

#### Psychology

| Author                | Thesis Title   |
|-----------------------|--|
| Barnes, Christopher A | The Effects of Travel Requirements on Behavioral Variability and Stereotypy in Pigeons |

#### Resource Administration & Mgmt

| Author              | Thesis Title   |
|---------------------|--|
| Kennedy, Jennifer H | The Northeast Consortium and Cooperative Research: A Case Study of the Commercial Fishing Industry's Involvement and Perceptions |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title   |
|-----------------------|--|
| Pawlowski, Kimberly J | Public Participation in Outdoor Recreation Planning: A New Hampshire Case Study  |
| Pinkerton, Corinne M. | A Compariosn of Contingent Valuation and Conjoint Analysis for a Proposed Shuttle System in Kenai Fjords National Park |

#### Sociology

| Author                  | Thesis Title   |
|-------------------------|--|
| Colocousis, Chris R     | Emerging Inequality: Social Change and Fisheries in the North Atlantic |
| Correia, Melissa Gagnon | State Variation in Nonmarital Childbearing                             |
| Meendering, Andrea D.   | Links Between Poverty, Modernization and Terrorism                     |

#### Zoology

| Author                  | Thesis Title  |
|-------------------------|---|
| Baldizar, Julie M.      | Factors Influencing the Diel Activity Patterns of the Stonefly <i>Acroneuria lycorias</i>   |
| Dyer, Lauralyn B.       | The Population Structure, Algal Preference and Color Distribution of the Intertidal Snail, <i>Littorina obtusata</i> , along the New Hampshire Coast                |
| Frick, Kinsey E.        | Factors Affecting Nematocyst Incorporation by Aeolid Nudibranchs of the Genus <i>Flabellina</i> in the Gulf of Maine  |
| Harper, Jennifer M      | Using Habitat Suitability Models to Identify Essential Fish Habitat for the Winter Flounder, <i>Pseudopleuronectes americanus</i> , in Great Bay Estuary, N.H.      |
| Little, Susan A.        | Comparisons of Size Frequency Distributions and Female Sizes at Maturity of American Lobsters, <i>Homarus Americanus</i> , Captured Throughout the Offshore Fishery |
| Mackey, Alison L        | Investigation of the Mechanism Responsible for Exclusion of P53 from the Nucleus of Leukemic Cells of the Soft-Shell Clam, <i>Mya arenaria</i>                      |
| Manning, Christopher A. | Temporal and Spatial Variation in Copepod Community Structure in the Western Maine Coastal Region   |
| Safryn, Sandra A.       | Behavioral Reaction to the Dragonfly Larvae, <i>Aeshna interrupta</i> , to Two Predators and their Effect on Shared Prey  |
| Wheeler, Michelle Moody | The Roles of Rhodopsin, PAX-6, and c-MYC Proteins in the Light Induced Gametogenic Cycle of the Green Sea Urchin, <i>Strongylocentrotus droebachiensis</i>          |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author          | Thesis Title  |
|-----------------|---|
| Wong, Alexander | Swimming Behavior of Four Species of Daphnia in Response to Temperature and Microcystis in the Absence of Light |

#### Academic Year of Graduation: Fall 2001 to Summer 2002

##### Adult & Occupational Education

| Author                | Thesis Title  |
|-----------------------|---|
| Lever, Virginia Hobbs | Taking the Expected Next Step or a Journey to Fulfillment- Recruitment Tools, Choice Factors and College Characteristics Contributing to College Selection for Adult Applicants |
| Wood, Patricia A      | The Impact of Nutrition Education Curriculum Use on Childcare Provider's Nutrition Related Behaviors and Child Feeding Practices  |

##### Animal & Nutritional Sciences

| Author                 | Thesis Title  |
|------------------------|---|
| Cavicchio, Victoria A. | Regulation of Monocyte Chemoattractant Protein-1 (MCP-1) by Pro-Inflammatory Cytokines in Endothelial Cells of the Bovine Corpus Luteum                     |
| Lariviere, Crystal A.  | The Influence of Lutein Supplementation and Diet on Serum Carotenoid Concentrations and Macular Pigment Optical Density Profiles in Participants Aged 21-48 |

##### Animal Sciences

| Author           | Thesis Title   |
|------------------|--|
| Robblee, Erin D. | Supplemental Lactoferrin for Preweaned Holstein Calves |

##### Biochemistry

| Author                | Thesis Title   |
|-----------------------|--|
| Connolly, Jane B.     | Designing and Synthesizing GnRH Analogs to Test in vivo and in vitro Studies in Sea Lamprey  |
| Kingsbury, Jonathan S | A New Benchtop Analytical Ultracentrifuge Equipped with a Scanning Fluorescence Optical System   |
| Paglia, Michael J.    | Characterization of Phosphorylation Sites on the Inhibitory Gamma Subunit of Photoreceptor Phosphodiesterase: Examining the Significance of Gamma Phosphorylation during Visual Transduction |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Chemical Engineering

| Author             | Thesis Title  |
|--------------------|---|
| Como, Karin Fortin | Immobilized Catalase on Cofoam(tm) Hydrophilic Polyurethane Composite |
| Hua, Dong          | Corrosion of Copper in Acid-Sulfate Plating Baths with Additives      |

#### Chemistry

| Author             | Thesis Title  |
|--------------------|---|
| Bist, Shanta       | Advances in N-Substituted and C-Substituted Cross-Bridged Tetraazamacrocycles and Attempted Synthesis of C-Substituted 1,4,7-Triazacyclononanes |
| Carey, Loucinda C. | The Feasibility of Single Molecule Detection by Laser Induced Fluorescence Microscopy   |
| Condon, Jeffrey S. | Cross-Bridged Macrocyclic Tetraamines: Synthesis of Pendant-Armed and Benzo-Annulated Ligands   |
| Lai, Su-Jen        | The Tandem Chain Extension-Reformatsky Reaction   |
| Pluhar, Karel H    | Low Temperature Chemical Vapor Deposition of TiSN Thin Films from Hydrazine, Silane, and Tetrakis (Dimethylamido) Titanium                      |
| Ye, Neng           | Divalent Transition-Metal Complexes of Novel Hexadentate Ligands Based on CIS,CIS-1,3,5-Triamino- cyclohexane: Synthesis and Structures         |

#### Civil Engineering

| Author               | Thesis Title  |
|----------------------|---|
| Bowman, Martha M.    | Load Testing of the Carbon FRP Grid Reinforced Concrete Bridge Deck on the Rollins Road Bridge, Rollinsford, New Hampshire        |
| Clark, Amy C.        | The Hydrology and Hydraulics of the Ossipee River System  |
| French, Thomas A.    | Analysis of Curling of Concrete Pavements due to Variations of Temperature  |
| Hildebrand, Dalia S. | Natural and Terminal Electron Acceptor-Enhanced in situ Bioremediation of Oil Contaminated Salt Marsh Sediments                   |
| Morton, Jennifer D   | Evaluation of Dredged Material as an Alternative Feedstock Material in Portland Cement Manufacture at Bench Scale and Pilot Scale |
| Passantino, Laurel B | Impacts of Turbidity and Algal Content on Ultraviolet Disinfection and its Application for Unfiltered Drinking Water Supplies     |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                 | Thesis Title   |
|------------------------|--|
| Tang, Xuan             | A Life Cycle Cost Study of Steel Reinforced Concrete Bridge Decks in New Hampshire |
| Thibodeau, Veronica E. | High-Performance Concrete-Pavement   |

#### Communication Disorders

| Author           | Thesis Title  |
|------------------|---|
| Wright, Susan L. | Speech and Language Therapy Forty Years Post Insult: A Case Study |

#### Computer Science

| Author               | Thesis Title   |
|----------------------|--|
| Chadda, Anshul       | Design, Implementation, and Performance Analysis of Session Layer Protocols for SCSI over TCP/IP |
| Ganapathy, Narendran | Conformance Testing, Design and Implementation of the login Phase of iSCSI (SCSI over TCP/IP)    |
| Gandhi, Arun         | Dynamic Issues in MPLS Service Restoration   |
| Kumar, Sunil         | Eliminating Kernel Participation from Network I/O in Cluster Computing                           |

#### Counseling

| Author               | Thesis Title   |
|----------------------|--|
| Blanchette, Marci P  | Community Support Program Clients and the Critical Importance of the Termination Process: A Paradigm for the Culmination of Caregiving |
| Camp, Sarah H        | A Trauma Therapy Model for the Treatment of Conduct Disordered Adolescents   |
| Carswell, Sabrina A. | What Goes Unsaid: Exploring the Impact of the Working Alliance Upon Nondisclosure in Clinical Supervision                              |
| Hamilton, Terri J.   | Embracing the Frightened Inner Child Through the Process of Eye Movement Desensitization and Reprocessing (EMDR)                       |

#### Earth Sciences

| Author          | Thesis Title  |
|-----------------|---|
| Frappier, Amy E | High-Resolution Stable Isotope Dynamics Recorded by Speleothem Calcite: New Opportunities for Paleotempestology, Paleometeorology, and Paleoecology |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title   |
|-----------------------|--|
| Getchell, Stefanie A. | The Spatial and Temporal Distribution of Cu, Pb, Zn and Cd in Marine Sediments from Boothbay, Maine                                |
| Oczkowski, Autumn J.  | Riverine Inputs of Nutrients to Great Bay, NH (USA)  |
| O'Grady, Kevin M.     | The Geochemical Controls on Hydrothermal Vent Fluid Chemistry from Two Areas on the Ultrafast-Spreading Southern East Pacific Rise |

#### Earth Sciences: Oceanography

| Author             | Thesis Title  |
|--------------------|---|
| Brodeur, Melissa A | Modeling the Effects of Physical Ocean Properties on the Growth of Blue Mussels at an Open Ocean Aquaculture Site |

#### Electrical Engineering

| Author                | Thesis Title   |
|-----------------------|--|
| Batinic, Borislav     | The Integration of a Police Mobile Radio into the Project54 System   |
| Bhosle, Shahaji T.    | A Robust Solution for Preprocessing Terrain Profiles for Use with Ray-Tracing Propagation Models                                     |
| Cheever, Daniel H.    | A New Methodology for Audio Frequency Power Amplifier Testing Based on Psychoacoustic Data that Better Correlates with Sound Quality |
| Luckoor, Sowmya S.    | FPGA Implementation of 10 Gigabit Ethernet's 64 Bit to 66 Bit Physical Soding Sublayer   |
| Mandava, Swapna       | Location Management in Mobile Wireless Networks  |
| Noseworthy, Robert E  | Physical Coding Sublayer of IEEE P802.3ab 1000BASE-T: The Standard, Simulation and Paths to Verification                             |
| Shyrovkov, Oleksandr  | Library for Organization of Image Recognition Systems  |
| Venugopal, Padmabala  | Radio Frequency Interference and Capacity Reduction in Digital Subscriber Line Technology  |
| Vinciguerra, Brett J. | A Comparison of Commercial Speech Recognition Components for Use with the Project54 System   |

#### Genetics

| Author | Thesis Title |
|--------|--------------|
|--------|--------------|



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### Master's Theses from Fall, 1990 to Present

| Author                 | Thesis Title   |
|------------------------|--|
| Diller, Karl C         | Predicting Places in the Genome Where Humans Differ from Chimpanzees: Using SNP Density to Find Presumptive Selective Sweeps in the Human Genome |
| McMahon, Jeffrey S.    | CCR4 Represses a Large Set of Yeast Genes and Has a Global Effect on mRNA Half-Life  |
| Mesrobian, Cristina M. | The Effect of RFP-Y Haplotype on Immune Response in Gallus Domesticus  |
| West, Andrew L.        | Molecular and Ecological Studies of New Hampshire Species of Porphyra (Rhodophyta, bangiales)  |

#### History

| Author             | Thesis Title  |
|--------------------|---|
| Goodwin, Nathan M. | The Venerable Bede and Rome: The Historia Ecclesiastica Gentis Anglorum as Apologia |

#### Hydrology

| Author            | Thesis Title  |
|-------------------|---|
| Kelliher, John L. | Estimation of Flow Duration Curves at Ungaged Reaches in New Hampshire and Vermont            |
| White, Eric P.    | A Three-Hundred Year Multi-Proxy Record of Environmental Change from a Speleothem from Belize |

#### Kinesiology

| Author              | Thesis Title  |
|---------------------|---|
| Climmer, Amy E      | Training Methods of Non-Degree College Outdoor Leadership Preparation Programs  |
| Dezeeuw, Jordana H. | An Examination of the Impact of Experiential Education Methodologies used in Cross-Cultural Programs on the Moral Reasoning of High School Students |
| Fabrizio, Sheila M  | Effect of Summer Camp Employment on Residential Counselors' Self-Perceptions of Life Effectiveness  |
| Largen, Matthew G.  | Boys Will Be Boys: Adolescent Males' Perceptions of Their Role Models in Sport  |
| Magrath, Scott M.   | Examining the Relationship of Achievement Goal Orientation to the Experience of Social Physique Anxiety in Exercise Settings                        |
| Nelsen, Peter J     | The Moral Reasoning of Undergraduate Outdoor Education Majors   |
| Vlamiis, Ekaterini  | The Effects of an Adventure Orientation Program on Incoming First Year Students   |

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### Master's Theses from Fall, 1990 to Present

#### Liberal Studies

| Author                | Thesis Title  |
|-----------------------|---|
| Berona, David A.      | The Woodcut Novels of Lynd Ward   |
| Forgey, Tate F.       | A Kierkegaardian Perspective on a Problem in Postmodern Ethics                                |
| Halvorsen, Matthew J. | A Socio-Legal Analysis of the Right to Privacy in the Digital Age                             |
| Silveira, Joseph A.   | The Women's Christian Temperance Union: An Army of Women Marching Towards Suffrage, 1874-1920 |

#### Materials Science

| Author                | Thesis Title   |
|-----------------------|--|
| McCaffery, Timothy R. | Development of Non-Lethal Mortar Shells Utilizing Fiber Reinforced Polymer Composite Materials |
| Obbard, Rachel W.     | Effect of Metal Interlayers on the Mechanical Behavior of Titanium Carbide Films               |

#### Math:Applied Math

| Author         | Thesis Title                      |
|----------------|-----------------------------------|
| Suljic, Sanela | Topics in Chaotic Synchronization |

#### Mechanical Engineering

| Author              | Thesis Title   |
|---------------------|--|
| Morton, Brogan P.   | Attitude Determination Using Earth Position and Magnetic Field Vector Measurements     |
| Murphy, Davis W.    | Finite Element Analysis of Ball Bearing Swaging  |
| Richards, Nathan D. | Efficient NC Machining Using Off-Line Optimized Feedrates and On-Line Adaptive Control |

#### Microbiology

| Author           | Thesis Title  |
|------------------|---|
| Johnson, Ryan C. | Insertion Sequence Elements in Yersinia: The Role of IS100 in Y. Pseudotuberculosis and Y. Enterocolitica |

#### NatRsrc:Environmental Consvrtn



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title   |
|-------------------|--|
| Craig, Matthew G. | A Bioregional Approach to Planning for Sustainability in the Bellamy River Watershed                                       |
| Frappier, Brian R | Exotic Woody Plant Species in New Hampshire: Effects of Rhamnus Frangula L. and a Predictive Model of Species Invasiveness |

#### NatRsrc:Forestry

| Author            | Thesis Title   |
|-------------------|--|
| Innes, James C.   | Size-Density Metrics, Leaf Area and Productivity in Eastern White Pine                                     |
| Kelly, Brendan T. | Effects of Natural Resources Management upon the University of New Hampshire's Woodlands and Natural Areas |

#### NatRsrc:Water Resources

| Author               | Thesis Title   |
|----------------------|--|
| Shattuck, Michelle D | Export of Dissolved Organic Carbon, Dissolved Organic Nitrogen and Nitrate from the Lamprey River Watershed, New Hampshire: Examining Relationships with Watershed Characteristics |

#### NatRsrc:Wildlife

| Author             | Thesis Title   |
|--------------------|--|
| Callaghan, Sara A  | The Effects of Forest Disturbance on Red-Backed Salamanders ( <i>Plethodon cinereus</i> ) in Northern Hardwood Forests |
| Lafiandra, Emily M | Phenotypic Plasticity in Larval Amphibians: Effects of Multiple Stressors  |

#### Nursing

| Author              | Thesis Title   |
|---------------------|--|
| Gasnarez, Gloria E. | Emergency Department Nurses' Beliefs Regarding Healthcare and the Poor   |
| Grady, Kelly Ward   | Intrauterine Twin Loss: A Narrative Analysis of Parent Writing   |
| Laurion, Shari L.   | Pilot Study Examining the Effectiveness of the Reliefband (R) on Postoperative Nausea/Vomiting in Gynecologic Laparoscopic Ambulatory Surgery Patients |
| Manning, Griffin P  | The Safety and Efficacy of a Percussive Technique used for Restoring Patency to Occluded Peripherally Inserted Central Catheters                       |



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### Master's Theses from Fall, 1990 to Present

#### Nutritional Science

| Author            | Thesis Title   |
|-------------------|--|
| Karki, Shakuntala | Brain Zinc Homeostasis in Response to Excess Zinc in Brain Capillary Endothelial Cells |

#### Occupational Therapy

| Author                | Thesis Title   |
|-----------------------|--|
| Marran, Mary Bailey   | Examining the Construct Validity of the Assessment of Instrumental Function (AIF)                        |
| McIntosh, Laurie S    | Helping Children Help: Including Children with Physical Disabilities in Household Tasks                  |
| Ross, Meridith Wilson | The Use of the Canadian Occupational Performance Measure with Clients in an Acute Rehabilitative Setting |

#### Ocean Engineering

| Author           | Thesis Title   |
|------------------|--|
| Allen, Scott C.  | Detection and Characterization of Yellowfin and Bluefin Tuna Using Passive Acoustic Techniques |
| Bird, Jonathan L | Manatee Sound Recorder   |

#### Plant Biology

| Author                    | Thesis Title  |
|---------------------------|---|
| Bezold, Todd N.           | Molecular and Biochemical Analysis of Normal and Hull-less Seeds of Cucurbita Pepo  |
| Clifford, Jennifer Fuller | The Lesion-Causing Efficiency of Venturia Inaequalis (CKE.) Wint. on Six Apple Cultivars  |
| Freeman, Rachael S.       | Plant-Animal Interactions in Ipomopsis Aggregata (Polemoniaceae)  |
| Smith, Brandon R.         | The Effect of Root-Medium pH and Applied Nutrient Concentration on Growth, Nutrient Uptake, and Pigment Content of Container-Grown Bedding Plants |

#### Political Science

| Author            | Thesis Title       |
|-------------------|--------------------|
| Conrad, Joseph P. | Tilting at Statism |



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### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title  |
|-------------------|---|
| Junius, Dennis M. | Investigating the Internet as a New Medium in Politics by Examining the Affect of Campaign Events on a Political Web Site |

#### Psychology

| Author               | Thesis Title  |
|----------------------|---|
| Harmon-Vukic, Mary E | The Activation and Instantiation of Instrumental Inferences |

#### Resource Economics

| Author          | Thesis Title  |
|-----------------|---|
| Gohara, Ryoichi | A System Dynamics Model for Estimation of Future World Food Production Capacity |

#### Sociology

| Author                | Thesis Title  |
|-----------------------|---|
| Carpenter, Timothy E. | The Devil Made Me Do It: The Relationship between Religion and Crime in Early Adulthood |
| Howerton, Amanda      | The Effects of Victim and Offender Characteristics on the Application of Law            |
| Medeiros, Rose A      | Least Interest and its Relationship with Relationship Power and Partner Assault         |

#### Zoology

| Author                     | Thesis Title  |
|----------------------------|---|
| Bertilsson-Friedman, Petra | Shark Inflicted Injuries to the Endangered Hawaiian Monk Seal, <i>Monachus schauinslandi</i>                                  |
| Nowak, Juliette L.         | Bioaccumulation of Microcystins in Pumpkinseed Sunfish ( <i>Lepomis gibbosus</i> )  |
| O'Grady, Daniel F.         | The Effect of Reduced Salinity on the Locomotory Behavior and Physiology of the American Lobster, <i>Homarus americanus</i>   |
| Phillips, Nancy J.         | Annual Variations in a <i>Microcystis aeruginosa</i> Population and the Occurrence of Microcystins in Lake Water and Sediment |

### Academic Year of Graduation: Fall 2000 to Summer 2001

#### Adult & Occupational Education

| Author | Thesis Title |
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title  |
|-----------------------|---|
| Farrington, Sharon H. | Determining the Quality of Skills for Dental Assistants in the Vocational-Secondary Education System of Massachusetts |

#### Animal & Nutritional Sciences

| Author                  | Thesis Title  |
|-------------------------|---|
| Dunn, Michelle D        | The Effects Of Lasalocid And Monensin On Taste Preferences Of Holstein Heifers And The Effects Of Activated Carbon On The Taste Preference And Performance Of Early-Lactation Primiparous Cows      |
| Hoogasian, Christine V. | Analysis of Matrix Metalloproteinases-2, 9, and 13 in Rous Sarcoma Virus-Induced Tumors in B2B2 and B5B5 Congenic Chickens  |
| Santoro, Helen M        | The Effect Of The Addition Of Soybean Trypsin Inhibitor To Colostrum And Colostrum Substitute On Serum Immunoglobulin G Level And The Effect Of A 50% Egg Protein Milk Replacer For Holstein Calves |
| Towle, Theresa A        | Temporal Changes in Tissue Inhibitors of Metalloproteinases (TIMPs) -1 and -2, and Matrix Metalloproteinases (MMPs) -2 and -9, During PGF2a-Induced Luteolysis in Sheep                             |

#### Biochemistry

| Author            | Thesis Title   |
|-------------------|--|
| Champagne, John C | An Analysis of the Gelation Properties of B-Lactoglobulin  |
| Daly, Amy E.      | Purification and Characterization of the Bovine Cone Photoreceptor Phosphodiesterase               |
| MacGregor, Ian K. | Fluorescence Optics for the Analytical Ultracentrifuge   |
| Maftai, Carmen G. | Solubilization of Membrane-Associated PDE for Studies of Its Activation during Visual Transduction |
| Piche, Nicole M   | Yeast Protein Interactions of CCR4-NOT Complex Components CAF130 and NOT1                          |
| Russell, Pamela R | Multiplicity of Not2 Functions Based on the Characterization of Not2 Mutations                     |

#### Chemical Engineering

| Author               | Thesis Title   |
|----------------------|--|
| Getchell, William F. | Kinetic Study of Electrochemical Deposition of Copper Ions on Single Crystal Rotating Ring-Disc Electrodes |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title                    |
|-------------------|---------------------------------|
| Zguris, Zachary Z | Evacuated Cryogenic Insulations |

#### Chemistry

| Author                | Thesis Title   |
|-----------------------|--|
| Budzinski, Lisa M     | Use of Differential Scanning Calorimetry and UV Spectroscopy To Study the Thermal Denaturation Temperatures of Ferritin and It's Recombinant H-Chain Mutants |
| Hilgenkamp, Ramona K. | The Zinc-Mediated Chain Extension Chemistry of B-Keto Amides   |

#### Civil Engineering

| Author                  | Thesis Title  |
|-------------------------|---|
| Coviello, Anthony D     | The Effects of Accelerated Aging on Three Types of Portland Cement Concrete   |
| Kozikowski, Ronald L.   | Accelerated ASR Testing of Concrete Using Recycled Aggregates   |
| Spear, Jean C M         | Assessment of an Accelerated Aging Method For the Prediction of the Environmental Performance of Portland Cement Concrete Containing Coal Fly Ash |
| Sweet, Jennifer Gilbert | Natural and Nutrient Enhanced in Situ Bioremediation of Petroleum Contaminated Salt Marsh Sediments   |
| Tao, Qin                | Development of a Structural Analysis Software Package Steel Beam and Column (SBC)   |
| Trunfio, Jody P         | Experimental Testing for the Use of Carbon FRP Grids in the Rollins Rd. Bridge, Rollinsford, NH   |

#### Communication Disorders

| Author               | Thesis Title   |
|----------------------|--|
| Brintnall, Sonya F   | The Effects Of Shared Book Reading On Infants' Productive Vocabulary Development     |
| Robertson, Marika E. | Montessori For Children With Language Learning Disabilities: A New Educational Model |

#### Computer Science

| Author             | Thesis Title                                     |
|--------------------|--|
| Laramee, Robert S. | Isosurface Rendering of Adaptive Resolution Data |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title   |
|--------------------|--|
| Manjanatha, Sowmya | IP Differentiated Services over ATM                                  |
| Palekar, Ashish A. | Design and Implementation of a SCSI Target for Storage Area Networks |

#### Counseling

| Author              | Thesis Title   |
|---------------------|--|
| Biggar, Lee J       | Adult Adoptee Self-Concept As A Function Of Adoption-Related Information And Support   |
| Houle, Lisa Gilmore | Variables That Contribute to Seniors' Happiness (Subjective Well-being)  |
| Keck, Sally A.      | Alcohol Dependence and Major Depressive Disorder: A Synergistic Relationship   |
| Nute, James D       | Assessment Of An Intervention Program For At-Risk Boys   |
| Varn, Susan S       | Two Creative Strategies for Accommodating Loss: The Internal Process of "Transitional Depression" and The External Support Provided in Peer Groups for Adolescents |

#### Earth Sciences

| Author            | Thesis Title   |
|-------------------|--|
| Murphy, Alison M. | A Glaciochemical Record From the Devon Ice Cap and Late Holocene Reconstruction of Past Sea Ice Extent in the North Water Polynya, Eastern Canadian Arctic |
| Souney, Joseph M. | A Late Holocene Glaciochemical Record From Law Dome, East Antarctica   |
| Yalcin, Kaplan B  | Anthropogenic and Volcanic Signals in an Ice Core From Eclipse Icefield, Yukon Territory, Canada   |

#### Earth Sciences: Geology

| Author            | Thesis Title   |
|-------------------|--|
| Finarelli, John A | A Phylogenetic Reassessment of the Hominoidea (Mammalia, Primates) Incorporating Morphologic and Temporal Data   |
| Foster, Peter J   | The Application of Surface and Borehole Ground Penetrating Radar to Characterize Surficial Deposits and Bedrock Fracture in the Seacoast Region of New Hampshire |
| Willard, George D | Bedrock Geology and Ground Magnetic Study of Adams Point Durham NH   |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Earth Sciences: Oceanography

| Author               | Thesis Title  |
|----------------------|---|
| Love, Rebecca Clauss | Nutrients and Physical Factors During Blooms of Alexandrium SPP in the Casco Bay Region Maine |
| Yu, Zhitao           | Sediment Resuspension Under Combined Wave-Current Conditions In The Great Bay Estuary         |

#### Electrical Engineering

| Author                  | Thesis Title   |
|-------------------------|--|
| Dogan, Kadir            | A Remote Access and Mobile Data Transaction System for the Project 54 System   |
| Kozakowski, Roman       | Testing and Health Monitoring in Microelectronic Systems Using Boundary Scan   |
| Larson, Kipp A          | Analog Circuit for Measuring the Depth of Interaction of Gamma Ray Events in a CZT Strip Detector with Coplanar Anodes |
| Nyahe, Michael K        | Effect of Connectors on Crosstalk in Three-Conductor Transmission Lines  |
| Reguraman, Praveenkumar | QoS over ADSL  |
| Tiryaki, Ramazan        | Corrosion Detection Using Boundary Scan  |
| Wheeler, Paul E.        | Real-Time CMAC Based Vibration Control Using Piezoelectric Panels  |
| Whitesell, Anthony D.   | Lightbar and Siren Interface for the Consolidated Advanced Technology for Law Enforcement Program                      |

#### Genetics

| Author             | Thesis Title   |
|--------------------|--|
| Garnhart, Nancy J. | Binthere A Program For the Analysis and Automatic Binning of Fluorescent Fragment Data |

#### History

| Author             | Thesis Title   |
|--------------------|--|
| Clark, Jonathan W. | Deceptive Victories: Containment In Iran And Turkey, 1946-47   |
| Grosky, Carol A    | Guiding Little Lambs: Education Charity and the Portsmouth Female Asylum 1803-1836   |
| Leclair, Joy T.    | "Believing The Present To Be A Day Of Action:" Nineteenth Century Women's Organizations At The West Parish Church Of Dracut, Massachusetts |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title  |
|-------------------|---|
| Parmelee, Deena L | Pennacook Foreign Policy During the Seventeenth Century |
| Vinsel, John E    | A Road We Did Not Know: Lessons Of Vietnam              |

#### Hydrology

| Author             | Thesis Title   |
|--------------------|--|
| Bowman, Christine  | The Hydrogeologic Significance of Oriented Carbonate Concretions in the Sierra Ladrones Formation New Mexico |
| Bradbury, James A. | Relation of Hydrologic Drought in New England to Large Scale Atmospheric Circulation Patterns                |

#### Kinesiology

| Author                | Thesis Title   |
|-----------------------|--|
| Costa, Allison G.     | Patients' Perceptions Of The Effects Of Adventure Therapy On The Treatment Of Eating Disorders                     |
| Litterini, Vincent S. | An Examination of Perceived Supervisory Change to Production Rate, Product Rejection Rate, and Delivery Efficiency |

#### Materials Science

| Author              | Thesis Title  |
|---------------------|---|
| Koutzaki, Sirma H.  | Phase Formation and Mechanical Properties of Multiphase Carbide Coatings                    |
| Versprille, Kate E. | A Factorial Design of Experiment Study of the Chemical Vapor Deposition of Titanium Carbide |

#### Mechanical Engineering

| Author            | Thesis Title  |
|-------------------|---|
| Ercan, Mustafa T. | Comparison of Force Estimation and Optimization Models in Three Axis Sculptured Surface Machining Using an Open Architecture Controller |
| Farias, Jason E.  | The Anti-Symmetric Driven Cavity  |
| James, Darwin R.  | Analysis and Design of Permanent Magnet Torque Motors   |

#### Microbiology

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title   |
|--------------------|--|
| Jensen, Victoria W | The Impact of Carbon Sources on the Internalization Process of <i>Listeria Monocytogenes</i> to Host Cells |
| Myers, Anna K.     | Mutagenesis Of <i>Frankia</i> EU11C  |
| Nadeau, William J  | Instestinal Inflammation Enhances <i>Salmonella</i> Typhimurium Killing by Human Neutrophils               |
| Potvin, Joseph C.  | The Effects of a 0.8kb Fragment of IS100 on <i>Yersinia pseudotuberculosis</i>                             |

#### NatRsrc:Environmental Consvrtn

| Author             | Thesis Title  |
|--------------------|---|
| Deely, Anne K      | The Potential for Ecological Reserves in New Hampshire Forests: An Assessment of Community and Institutional Partnerships   |
| Nkounkou, Duclos R | Comparison of Microbial Composition and Activity in Overburden at Pease International Tradeport   |
| Rowe, Rosemarie    | Land Cover Classification of Remotely Sensed Data: Assessing the Accuracy Using Student-Collected Reference Data From the Global Learning and Observations to Benefit the Environment (GLOBE) Program |
| Tierney, John R.   | Case Study of Establishment of Great Bay National Wildlife Refuge at the Former Pease Air Force Base, New Hampshire   |

#### NatRsrc:Forestry

| Author              | Thesis Title  |
|---------------------|---|
| Supple, Jennifer S. | A Study of the Relationship Between Annual Radial Growth in White Pine Trees ( <i>Pinus Strobus</i> L.) From the Forest Watch Program and Needle Red Edge Inflection Point, Tropospheric Ozone, and Climate |
| Torok, Claudia L.   | Models for Analyzing Alternative Timberland Investments   |

#### NatRsrc:Soil Science

| Author               | Thesis Title  |
|----------------------|---|
| Dudley, Karen L      | Indicators Of Saturation In Albic Horizons Of Sandy Outwash Soils Of New Hampshire And Maine              |
| Gorham, Anne M.      | Seasonal Changes in C:N Ratios and Nitrogen Mineralization in Young Secondary Forests in Eastern Amazonia |
| Keirstead, Donald R. | Variations in Forest Soil Quality with Hillslope Position and Degree of Disturbance                       |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title  |
|-------------------|---|
| Trefry, Sherrie L | Soil Phosphorus Fractionation in a Slash and Burn Successional Sequence on a Sombrustox in the Eastern Amazon |

#### NatRsrc:Water Resources

| Author             | Thesis Title   |
|--------------------|--|
| Matso, Kalle       | Beach Seine, Scuba and Remote Video: A Comparison of Three Methods For Assessing Faunal Species Richness and Abundances in Eelgrass Beds |
| Merriam, Jeffrey L | Characterizing Nitrogen Dynamics, Retention and Transport in a Tropical Rainforest Stream Using an In Situ <sup>15</sup> N Addition      |

#### Nursing

| Author                       | Thesis Title  |
|------------------------------|---|
| Brady, Debbie A              | Effect of an Injury Prevention Curriculum on Skiing and Snowboarding Helmet Use in Second Graders                                 |
| Hale, Victoria Jennison      | Exploring Relationships Between Personal Spiritual Well-Being and Professional Spiritual Self-Efficacy Among New Hampshire Nurses |
| Hand, Mark C.                | Postdischarge Nausea and Vomiting and Pain Management in Adult Ambulatory Surgery Patients: A Pilot Study                         |
| Hayes, Margaret O.           | Regulation Of The Body Piercing Industry: United States 2000  |
| Morgan, Patricia A           | Decision Making About Hormone Replacement Therapy: The Lived Experience of Postmenopausal Women                                   |
| Renouf, Carol Harju          | Meaning of Spirituality Among Adults Experiencing Life Crisis   |
| Rodriguez-LaPage, Georgina K | Examining the Effects of Spouse/Partner Support and Fatigue on Length of Breastfeeding  |

#### Nutritional Science

| Author         | Thesis Title  |
|----------------|---|
| Allen, Jorie C | The Physiological Role of Sex Hormones in Energy and Substrate Metabolism |

#### Occupational Therapy

| Author           | Thesis Title   |
|------------------|--|
| Arnold, Karen T. | The Occupational Therapist's Role at the High School |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author               | Thesis Title   |
|----------------------|--|
| Clark, Lisa L        | Occupational Therapy Evaluation Time in Skilled Nursing Facilities of Southern Maine                             |
| Doehler, Carol A.    | Level II Fieldwork Education in Emerging Practice Environments: The Students' Perspective                        |
| Finesilver, Janet L. | Behavior Reflective of Sensory Processing: Its Influence on Recess Play in Kindergarten and First Grade Children |
| Nardella, Maureen S  | Living the Role of Occupational Therapist: Embracing Occupation in Home Health Practice                          |
| Quirk, Fiona Little  | Walking A Fine Line: Occupational Therapists In Emerging Areas Of Pediatric Practice                             |

#### Ocean Engineering

| Author                | Thesis Title   |
|-----------------------|--|
| Jabs, Eric P          | The Geoclutter Probe   |
| Mahmutoglu, Serkan    | Hydrodynamic Modeling of the Tidal Flow in Hampton/Seabrook Harbor, NH                                       |
| Michelin, Derek M.    | Wavemaker Control Software for the University of New Hampshire Wave/Tow Tank                                 |
| North, Thomas F.      | Design and Performance Analysis of a Low Area Ratio Jet Pump Used for the Harvesting of Intact Marine Plants |
| Palczynski, Michael J | Fish Cage Physical Scale Modeling  |
| Smith, William G.     | Design of an Ice-Resistant Structure for U.S. Coast Guard Aids to Navigation                                 |

#### Plant Biology

| Author                  | Thesis Title   |
|-------------------------|--|
| Bornt, Charles D.       | The Development of An Annual Hill Strawberry Plasticulture Production System in New England            |
| Lasanajak, Yi Quan      | Transgenic Approach to Study the Interaction of Polyamine and Ethylene Metabolism in Poplar and Tomato |
| Richardson, Caroline D. | Analysis of Supplemental Lighting for Greenhouse Production  |

#### Political Science

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                   | Thesis Title   |
|--------------------------|--|
| Andrews, Tama L          | Framing The Choices: An Analysis of Media Coverage of Candidates in the 1996 New Hampshire Republican Presidential Primary |
| Bauer de la Isla, Paloma | Realists in Sheep's Clothing: Mexico's Foreign Policy Prior to and after NAFTA   |

#### Psychology

| Author              | Thesis Title   |
|---------------------|--|
| Gagne, Danielle D   | The Impact of Proactive Interference and Mental Model Processing During On-Line Reading of Text Among Younger and Older Adults |
| Mulvaney, Matthew K | Associations Between Early Mother, Child, and Dyadic Characteristics and Mother-Child Scaffolding in Middle Childhood          |
| Nelson, Holly       | The Caregiving Touch: Human Allo-Grooming  |
| Peracchi, Kelly A   | Character Profiles And The Activation Of Predictive Inferences   |

#### Resource Administration & Mgmt

| Author                 | Thesis Title   |
|------------------------|--|
| Hiddenfelter, Mindy H. | White Pine Log Exports from Northern New England to Quebec |

#### Sociology

| Author                | Thesis Title   |
|-----------------------|--|
| Butler, Melissa Jill  | Answering God's Call: The Impact of Adolescent Religious Orientations on Attitudes and Actions Regarding the Poor  |
| Cameron, Bernadette A | Community Health Center Nurses' Attitudes and Beliefs About Poverty: Implications For Patient Care   |
| Kline, Jennifer S.    | The Feminine Ideal Represented in Popular Teenage Periodicals 1944-1999: A Retrospective of Visual Presentations in Advertisements and Their Underlying Ideologies |
| Murray, Brigid K      | Crafting The Social Fabric: How Community-Based Organizations Address Social And Economic Change   |

#### Special Education

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Miller, Nannette R. | Literacy Learning And Its Social Construction In A Kindergarten Child With An Autism Spectrum Disorder |

#### Teacher Leadership

| Author             | Thesis Title  |
|--------------------|---|
| Patten, Michael R. | An Investigation of the Concept Attainment Model in a High School Physics Problem Solving Setting |

#### Zoology

| Author               | Thesis Title   |
|----------------------|--|
| Hathaway, Richard A. | Bioaccumulation of Microcystin in Crayfish and Mussels Within New Hampshire Lakes and their Potential as Biomonitors |
| Newcomb, James M     | Nitric Oxide In The Central Nervous System Of The Gastropod Melibe Leonina And Its Role In Modulation Of Swimming    |

### Academic Year of Graduation: Fall 1999 to Summer 2000

#### Adult & Occupational Education

| Author               | Thesis Title  |
|----------------------|---|
| Gauthier, William A. | How Do Students From New Hampshire's Unequally Funded School Districts Perform at the University of New Hampshire |

#### Animal & Nutritional Sciences

| Author              | Thesis Title   |
|---------------------|--|
| Cole, Kristen K.    | The Effect of Prolactin and Prostaglandin F2-Alpha on the Expression of Intercellular Adhesion Molecule-one and Recruitment of Immune Cells into the Corpora Lutea of Hypophysectomized Sprague-Dawley Rats During Luteal Regressi |
| Cole, Susan L       | Variable Amounts of Ruminally Degradable and Undegradable Protein for Post-Weaned Heifers  |
| Johnson, Heather E. | Supplementation of the Liquid Methionine Hydroxy Analog MHA to Barley and Corn Based Diets for Late Gestation and Early Lactation Multiparous Holstein Cows  |
| Lehmann, Holly M    | The Influence of Zinc Status on Zinc Transport By an In Vitro Model of the Blood-Brain Barrier   |

#### Biochemistry



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title  |
|--------------------|---|
| Materne, Olivier L | Characterization of the Gonadotropin Releasing Hormone Binding Sites in the Pituitary and Gonads of the Sexually Maturing Adult Lamprey |

#### Chemical Engineering

| Author               | Thesis Title  |
|----------------------|---|
| Bailey, Daniel M.    | Tyrosinase Catalyzed Phenol Oxidation   |
| Bick, Michele Krause | A Bioactivity Assessment of Micropatterned Silica Fabricated by Sol-Gel Soft Lithography  |
| Chadda, Anshul       | Chemical Stability in Thermal Swing Adsorption Process for Oxygen Production  |
| Clarner, Mark A      | Fabrication of Optically Functional Micro Sensors by Sol-Gel Soft Lithography   |
| Howell, Dewayne E.   | Ceramic Filters for Hot Gas Filtration  |
| Stubbs, Jeffrey M    | The Effect of Initiator Type on Composite Particle Morphologies Produced by Seeded Emulsion Polymerization  |
| Whittum, Jonathan E. | Enzyme Catalyzed Polymerization and Precipitation of Aniline From Wastewater  |
| Yan, Shuo            | Theoretical Modeling of Rotating Annular Size Exclusion Chromatography and Purification of Porcine Lipase by Hydrophobic Interaction Chromatography |

#### Chemistry

| Author             | Thesis Title  |
|--------------------|---|
| Cebula, Regina E.  | The Diastereoselective Synthesis of Bis-Cyclopropanes   |
| Gheorghiu, Liliana | Amine-Containing Polymer Membranes for Detecting Polynitroaromatic Compounds above Land Mines |
| Jeon, Ingyu        | Studies of Hexathiaadamantanes and New Hexathiaadamantane Derivatives                         |
| Phillips, James E. | Zirconocene Mediated Rearrangement of Diallylketals   |
| Young, Matthew J   | Synthesis of Bis-Tetraazamacrocycles and Synthesis of Chiral Cyclen-Based Tetraazamacrocycles |

#### Civil Engineering

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title  |
|---------------------|---|
| Dodge, Ethan C      | Determination of Shrinkage Characteristics of Concretes with Mineral and Chemical Additives |
| Ravenelle, Aaron J. | A Deformation Analysis of Concrete Slabs Reinforced with Fiber Reinforced Plastic Grids     |

#### Computer Science

| Author              | Thesis Title  |
|---------------------|---|
| Agrawal, Monalisa   | Development of a Linux ATM Device Driver with Support for ABR Service |
| Chavan, Mrinalini S | Performance Analysis of Network Protocol Stacks Using Software Probes |
| Huang, Xiangdong G. | Design and Implementation of a Fibre Channel Switch on Linux          |
| Raman, Mythilikanth | A Scheme for Fast Restoration in MPLS Networks                        |

#### Counseling

| Author              | Thesis Title  |
|---------------------|---|
| Brochu, Lisa M.     | Attachment, Sexual Offending and Implication for Treatment                  |
| Chamberlain, Eric B | Wilderness Solitude: Personal Impact and Potential for Therapeutic Movement |

#### Earth Sciences

| Author               | Thesis Title  |
|----------------------|---|
| Banks, Emily S       | Distribution of Heavy Metals and Clostridium Perfringens in the Recent Sediments of Penobscot Bay Maine                             |
| Dixon, Ronald J.     | A Hydrogeologic Assessment of Mixed Water Dolomitization in a Confined Coastal Aquifer: Cambrian-Ordovician Deposits Illinois Basin |
| Jenkins, Julian Paul | Development of a Continental Scale Phenology Model Linking Remote Sensing Data and Climate Drivers                                  |

#### Earth Sciences: Geology

| Author                 | Thesis Title  |
|------------------------|---|
| Christensen, Kaneen E. | Relationship Between Sedimentological Facies and Vertebrate Faunal Abundance in the McCullough Peaks, Wyoming |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author           | Thesis Title  |
|------------------|---|
| Doyle, Joseph E. | Microscopic Flow Direction Indications in a Multiple Diabase Dike at Adams Point Durham New Hampshire |

#### Earth Sciences: Oceanography

| Author              | Thesis Title  |
|---------------------|---|
| Fan, Yalin          | The Influence of Combined Wave and Current Induced Bottom Stress on the Coastal Ocean Response to Storm Forcing   |
| Jacobs, Kenneth R.  | The Optical Properties of the Great Bay Estuary: Parameterization of an Ocean Color Model   |
| Leo, Michael E.     | The Geomorphology, Sedimentology, and Storm Response of Beaches Along the Glaciated Coast of the Western Gulf of Maine (New Hampshire and Southwestern Maine) |
| Miller, Samuel T.K. | Air-Sea Heat Flux in the Gulf of Maine: Meteorological Forcing and Oceanic Response   |

#### Economics

| Author            | Thesis Title  |
|-------------------|---|
| Chiume, William K | The Economic Impact of AIDS in Tanzania and Southern Africa                     |
| Tommasi, John R   | Opportunity Cost of Drug Crime & Drug Law Enforcement in New Hampshire for 1996 |

#### Electrical Engineering

| Author                 | Thesis Title  |
|------------------------|---|
| Bick, Peter J.         | A Parametric Study of an Acoustic Noise Canceling System Using a CMAC Neural Network            |
| Canfield, John C       | Switched Linear Circuit Simulation  |
| Hargreaves, Jeffrey J  | Investigation of Intermodulation Products Due to NonLinear Effects of CoLocated Antennas        |
| Healey, Adam B.        | Frequency Domain Characterization of the Wideband Multipath Channel at 2.4GHz                   |
| Liu, Kangyong          | Study of Convergence Properties of CMAC Neural Network in Closed Loop Vibration Control Systems |
| Mamidipudi, Anandam V. | Effects of Radiation on a Constant Fraction Discriminator                                       |
| Oruc, Osman            | Corrosion Detection in Microelectronic Devices  |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                 | Thesis Title  |
|------------------------|---|
| Panchagnula, Vallinath | Measurement and Analysis of QoS Metrics for a Voice Over IP Network |
| Seledtsov, Mikhailo    | Modeling Ari-Ground Digital Wireless Datalink                       |
| Smith, Robert C.       | CMAC Neural Network Vibration Control in Metal Plates               |
| Yuksel, Cihangir       | Corrosion Test Structures for Assembly Level Reliability            |

#### Genetics

| Author             | Thesis Title  |
|--------------------|---|
| Cain, Danielle E   | Genetic Characterization and Phylogenetic Analysis of Native Western North Atlantic Porphyra Using the 18S Ribosomal Gene |
| Imbaro, Jeffrey B. | Localization of CPK2 mRNA Using in Situ Hybridization   |

#### History

| Author                  | Thesis Title  |
|-------------------------|---|
| Butters, Bryan S.       | Colonial Currency and the Land Bank Crisis of 1740-1742: Jonathan Belcher and William Shirley; Negotiated Authority and Imperial Governance in Provincial Massachusetts |
| Cleveland, Todd C       | The Life of a Portuguese Colonialist: General Jose Norton De Matos 1867-1955  |
| Jones, William P        | Thor's Hammers: The Swedish and Finnish "Granitklippan" Community of West Concord, New Hampshire  |
| Ledman, Paul J.         | A Town Responds: Cape Elizabeth Maine in the Civil War  |
| Paris, Christopher J.V. | Authority, Truth and Scholastic Dialectical Discourse in the Nascent University City of Paris, 1085-1215  |
| Washburn, Marsha M.     | Public Women, Private Men: Gendered Propriety in Jane Austen's Northanger Abbey and Sense and Sensibility   |

#### Hydrology

| Author               | Thesis Title   |
|----------------------|--|
| Holden, Jonathan B.  | A Permafrost Based Water Balance Model   |
| Kopczynski, Sarah E. | Numerical Modeling of Unconfined Regional Groundwater Flow at Fort Richardson Alaska |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Pappas, Paulette V. | A Geophysical Study of Paleoenvironments at Archaeology Sites in Ashland and Jefferson New Hampshire |

#### Kinesiology

| Author                   | Thesis Title  |
|--------------------------|---|
| Hickey, Marilyn Buffinga | The Impact of Strength Specific Exercises on Running Economy  |
| Petrock, Kathryn E.      | Examining the Effects of a Goal Setting and Imagery Intervention on Motivation During a Collegiate Novice Rowing Season |

#### Liberal Studies

| Author         | Thesis Title                                       |
|----------------|--|
| Walsh, Anne S. | The World War I Letters of Dr. Clarence E. Mullens |

#### Mechanical Engineering

| Author                  | Thesis Title   |
|-------------------------|--|
| Mahoney, Daniel P.      | Analysis of Copper Capor Laser Cutting of Silicon  |
| Ozbay, Mustafa          | Finite Element Analysis of Offshore Net Pen / Mooring Systems                                  |
| Prindle, Christopher M. | Characterization of Dielectric Films in On-chip Interconnect s Using Electric Force Microscopy |
| Wu, Yuanyan             | Finite Element Modeling of Vacancy Diffusion Creep   |

#### Microbiology

| Author                 | Thesis Title  |
|------------------------|---|
| Chapron, Christopher D | The Replication Recovery Efficiency from Positively Charged 1 MDS Filters and Detection of Astrovirus from Sludge Biosolids and ICR Surface Water Samples Using an Integrated Cell Culture RT-PCR/ Nested PCR Technique |
| Eddy, Stephen D.       | The Microbiology of Summer Flounder Fingerling Production: Pathogenic and Probiotic Bacteria  |
| Krumholz, Glenn D.     | Biochemistry and Genetics of Frankia  |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author               | Thesis Title   |
|----------------------|--|
| Sweeney, Margaret A. | The Study of Indicator Organisms as Predictors of the Presence of Giardia Lamblia, Cryptosporidium Parvum, Aeromonas Hydrophila, and Plesiomonas Shigelloides in Source and Finish Water |
| White, Donald J.     | Construction and Purification of Histidine-Tagged Straphylococcal ArsB Protein, An Intefral Membrane Protein Involved in Arsenical Salt Resistance                                       |

#### NatRsrc:Environmental Consvrtn

| Author                 | Thesis Title  |
|------------------------|---|
| Barrett, Matthew S     | GIS in the Design and Management of a Potential Ecological Reserve in the University of New Hampshire's College Woods   |
| Lepine, Lucie C        | Importand Factors in Assessing the Accuracy of Remotely Sensed Forest Vegetation Maps: A Comparison of Sampling and Total Enumeration and Their Effects on Data Accuracy      |
| Pendharkar, Jyothi H   | A Pedestrian Safety Study in Rural and Small Urban Areas  |
| Wormstead, Sherri Lusk | Training Material Design Criteria for the Implementation of Student Teacher Scientist Partnerships in the Elementary and Middle School Levels With Focus on the GLOBE Program |

#### NatRsrc:Forestry

| Author             | Thesis Title   |
|--------------------|--|
| Najjar, Stephen J. | Analysis of Special Characteristics in Eastern White Pine Associated With Hazardous Chemical Contamination |

#### NatRsrc:Water Resources

| Author                 | Thesis Title   |
|------------------------|--|
| Besette, Alison Bowden | Effects of Urban Runoff on the Invertebrate Communities of Natural and Created Salt Marshes in Portsmouth, New Hampshire |
| Mosedale, Cindy H.     | Carbon and Nitrogen Cycling in a Commercial Greenhouse   |

#### NatRsrc:Wildlife

| Author          | Thesis Title   |
|-----------------|--|
| Barr, Garrett E | Effects of Biotic and Abiotic Factors on Larval Plethodontid Salamanders |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Givens, Heather L.  | Effects of Upland Landscape Characteristics Influencing Amphibian Use of Wetlands in the Merrimack River Watershed, New Hampshire                  |
| Kjoss, Victoria A.  | Community Structure of Snakes in a Fragmented Landscape  |
| Tarr, Tracy Aylward | Patterns of Larval Amphibian and Aquatic Insect Distribution : Effects of Hydroperiod  |
| Walter, William D.  | A Field Test of the PZP Immunocontraceptive Vaccine on a Population of White-tailed Deer ( <i>Odocoileus virginianus</i> ) in Suburban Connecticut |

#### Nursing

| Author           | Thesis Title   |
|------------------|--|
| McCray, Laurie A | The Influence of Self-determination Principles on the Medication Process in Adults with Developmental Disabilities |

#### Ocean Engineering

| Author                  | Thesis Title  |
|-------------------------|---|
| Dugan, Patrick J.       | Hydrofoil Development for a High-Speed Oil Containment System   |
| Muller, Erik K.         | Development of an Offshore Aquaculture Site   |
| Muller, Laura Cavagnaro | Investigation of the Use of Acoustic Gillnet Pingers to Elicit Changes in the Vocalizations of Hector's Dolphins ( <i>Cephalorhynchus Hectori</i> ) |
| Nourse, Peter C.        | Development of a High-Speed Oil Skimming System   |
| Rule, John K            | Design Improvements to the University of New Hampshire Ocean Engineering Circulating Water Flume  |
| Unlu, Ahmet N.          | A Study of the Effects of Towfish Motion on Sidescan Sonar Imagery Through Simulation   |

#### Plant Biology

| Author                 | Thesis Title   |
|------------------------|--|
| Howard, Lauren F       | Temporal Patterns of Vascular Plant Diversity in Southern New Hampshire Woodlands            |
| Karakoudas, Nicholas G | An Environmentally Modified Vertical Growing System for Intensive Strawberry Crop Production |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title   |
|--------------------|--|
| Lu, Sheen X        | Membrane Association of a Calcium Dependent Protein Kinase in Arabidopsis Thaliana |
| Sperduto, Daniel D | The Vegetation of Seasonally Flooded Sand Plain Wetlands in New Hampshire          |

#### Political Science

| Author        | Thesis Title                                   |
|---------------|--|
| Dorj, Solongo | Northeast Asian Security and the United States |

#### Psychology

| Author          | Thesis Title  |
|-----------------|---|
| Ley, Jessica E. | Effects of Ventral Striatal Lesions on Olfactory Delayed-Nonmatch-to-Sample and Olfactory Discrimination in the Rat |

#### Resource Administration & Mgmt

| Author             | Thesis Title   |
|--------------------|--|
| Tango-Lowy, Torene | Preadoption of Open Ocean Aquaculture by Northern New England's Inshore Commercial Fishermen |

#### Resource Economics

| Author         | Thesis Title   |
|----------------|--|
| Gibbs, Julie P | The Influence of Water Clarity on Marginal Prices for Residential Lake Front Property in New Hampshire |

#### Sociology

| Author               | Thesis Title   |
|----------------------|--|
| Eaton, Jeffrey A     | Social Integration and Violence in the Elderly: Violence in People Residing in Long Term Care Facilities |
| Kopiec, Kathleen M.  | Witnessing Interparental Violence and Children's Adjustment  |
| Snowadzky, Barbara M | Mental Illness and Empowerment: A Descriptive Study of a Clubhouse Model                                 |
| Ulman, Arina         | Parental Conflict and Violence and Child-To-Parent Violence  |
| Watts, Karen M.      | The Relation of Religious Activity to 7th - 12th Grade Students Use of Drugs and Alcohol                 |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Zoology

| Author                 | Thesis Title   |
|------------------------|--|
| Bradt, Shane R         | An Investigation of the Biological Activity of Microcystin LR: Development of a Bioassay and Study of Functional Role  |
| Foradori, Matthew J    | Studies on the Structure of the Cocoons of Selected ORB Weaving Spiders  |
| Galimberti, Kimberly M | Microcystins in New Hampshire Lakes and Bioaccumulation in Zooplankton   |
| Harrington, Laura M    | Annual Changes in the Nutritive Phagocytes of the Green Sea Urchin <i>Strongylocentrotus Droebachiensis</i> Relevance to Gametogenesis and Aquaculture                               |
| McGinn, Nature A.      | Vitellogenesis in the Green Sea Urchin, <i>Strongylocentrotus Droebachiensis</i> : Localization of Vitellogenin Protein in Gonadal Tissue and the Influence of 17 $\beta$ -Estradiol |

#### Academic Year of Graduation: Fall 1998 to Summer 1999

#### Adult & Occupational Education

| Author                | Thesis Title  |
|-----------------------|---|
| Aichele, Patricia D.  | Reach for the Stars: A Summer Science Camp for Girls                                  |
| Carmody, Joanne Hamel | A Study of Weaning Behavior and Infant Feeding Practices of First-Time Mothers        |
| Stuhrcke, Janet D.    | Evaluating and Assessing Standards and Consumption of Fluid Intake in the Older Adult |

#### Animal & Nutritional Sciences

| Author                | Thesis Title  |
|-----------------------|---|
| Ennis, Catherine Hoyt | Matrix Metalloproteinases in Hamster Aortic Atherosclerosis   |
| Faia, Kerrie L.       | Characterization of Matrix Mellaoproteinase Expression and Activity in Hamster Aortic Atherosclerosis |
| Sensenev, Heather L.  | B Complex Effects on Rous Sarcoma Tumor Outcome in Line UCD 003 X Line UCD 001 Chickens               |
| Spencer, Amy V        | Apoptosis and Bax and BCL-2 in the Progression of Aortic Atherosclerosis in the Syrian Golden Hamster |
| Sweetland, Rebecca L. | Lysosomal Acid Lipase Activity in Atherosclerosis Susceptible and Resistant Pigeon Aortas             |
| Wright, K. C. Slocum  | Is Infant Acceptance of Breast Milk Influenced by Maternal Exercise?                                  |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Chemical Engineering

| Author             | Thesis Title  |
|--------------------|---|
| Li, Chiao Y        | Light Biocarriers for Biofilm Attachment in a Fluidized Bed for Wastewater Treatment  |
| Palekar, Ashish A. | Optimization of Continuous Purification of Lipase by Rotating Annular Size Exclusion Chromatography   |
| Shi, Ying          | Rotating Ring-Disk Studies of Copper Electrodeposition on Copper single Crystals in Acid-Sulfate Solution with Dissolved Oxygen and Dilute Chloride |

#### Chemistry

| Author              | Thesis Title   |
|---------------------|--|
| Bourgeois, David A. | First Year Assesment of Chemprojects: General Chemistry Project Laboratories for science and Engineering Majors Part II: Study of Oxygen Content in Titanium Nitride Thins Films made by Chemical Vapor Depositions. |
| Liang, Chun         | A Copper Study of the Extrapallial Fluid Protein of Mytilus Edulis   |

#### Civil Engineering

| Author              | Thesis Title  |
|---------------------|---|
| Bailey, Scott M.    | Enhancing Membrane Ultrafiltration Removal of Natural Organic Matter by Addition of Anion Exchange Resin                            |
| Dunstan, Alicia H   | Laboratory Simulation of Earthquakes Loading on Clay  |
| Formica, Matthew T. | Wastewater Treatment Improvements Using Filtration Technologies   |
| Klauber, Brian D.   | Analysis and Construction of a Hyperbolic Paraboloid Salt Storage Facility Using Corrugated Steel Decking                           |
| Shay, David M       | An Investigation into the Relationships between Protozoa, Bacteria and Chemical Constituents in an Organically-Contaminated Aquifer |
| Stetson, Kevin P    | Instrumented Dilatometer Testing of the Connecticut Valley Varved Clay  |
| Vanikar, Neel S.    | Determination of the Impact of Biomass and Rate-Limiting Nutrients on Slow Sand Filter Treatment Performance                        |

#### Computer Science

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                  | Thesis Title   |
|-------------------------|--|
| Abraham, Vineet M       | Design Implementation and Evaluation of a Fibre Channel Driver for IP on Linux                   |
| Ahuja, Sadhna           | A High-Performance Transport Protocol for Local Area Networks                                    |
| Coucouvitis, Arthur M   | Automatic Indexing of Text Documents   |
| Dholakia, Mehul H.      | A Simulator for the UNH DPCE Compiler  |
| Harrington, Linda M.    | Detecting Subtopic Structure by Identifying Semantic Relationships                               |
| MacBeth, Mark W.        | Compiling Java Bytecode for a Distributed Memory Environment                                     |
| Subramanian, Anupama    | Extension of Streamlined Buffer Protocol to Support Virtual Networks                             |
| Valcourt, Scott Anthony | A Method for the Incorporation of Demand Priority Framing of 100VG-AnyLAN in the TCP/IP Protocol |
| Wilson, Richard M.      | Dynamic Hierarchy Specification and Visualization  |

#### Counseling

| Author                | Thesis Title  |
|-----------------------|---|
| Manning, Amelia Evans | The Effects of Mentoring on Adolescent Girls' Adherence to Sex-Role Stereotypes and Locus of Control in Situations of Failure and Success |
| Randall, Katelyn B.   | Factors Which Affect a Woman's Decision When Faced with Unplanned Pregnancy   |
| Wentworth, Kristin G. | Client Motivation for Psychotherapy and its Relationship to Therapeutic Persistence and Goal Attainment                                   |

#### Earth Sciences

| Author            | Thesis Title   |
|-------------------|--|
| Meyerson, Eric A. | Amundsen-Ross Sea Ice Variability and the Extratropical Expression of ENSO as Recorded in a South Pole Glaciochemical Series |
| Slater, John F    | Source Apportionment of Chemical Species in Greenland Snow and Firn  |

#### Earth Sciences: Geology

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title  |
|--------------------|---|
| Allard, Stephen T  | Metamorphic Petrology Structure and Bedrock Geology of the Berwick Formation within the Mount Pawtuckaway 7.5 -Minute Quadrangle Raymond and Nothingham New Hampshire |
| Helmrath, Erika K. | The Stratigraphy of the UNH Hydrology Research Site in Durham, New Hampshire  |
| Larson, Toti E.    | the Metamorphic History of the Massabesic Gneiss Complex and the Berwick Formation of Southeastern New Hampshire  |
| Wolf, Matthew J    | a VLF-Electromagnetic and Ground Magnetic Survey of the Spruce Hole Aquifer Durham New Hampshire  |

#### Earth Sciences: Oceanography

| Author              | Thesis Title  |
|---------------------|---|
| Mupparapu, Prashant | Role of Convection in the Winter Gulf of Maine Mixed Layer Formation                  |
| Pilon, Vicki L.     | Slope Water Nutrient Characteristics and Annual Variability in the Eastern Gulf Maine |
| Wang, Zhaohui       | The Annual and Seasonal Variations of Nitrogen in Massachusetts Bay                   |

#### Electrical Engineering

| Author                 | Thesis Title   |
|------------------------|--|
| Butler, Jeffrey T.     | Development of an Operating System for Use on the Cooperative Astrophysics and Technology Satellite (CATSAT)                                 |
| Irazoqui-Pastor, Pedro | Evaluation of Integrated Antenna Diversity Systems   |
| Kilambi, Maruthi R.    | Development of Receiver Parametric Tests for Testing 100 Base-TX Receivers   |
| Pallotta, Jeremy M.    | Vibration Control Using Weight Smoothing CMAC Neural Network   |
| Rousseau, Ryan J.      | The Spectral Accumulator Board for use on the Cooperative Astrophysics and Technology Satellite (CATSAT)                                     |
| Wu, Yongjun            | Modeling and Simulation of Vibration Control Using a CMAC Neural Network   |
| Yum, Chee L.           | Statistical Evaluation of Layout Techniques and Device Sizes for Characterizing the Matching Behavior of N-and P- Channel Differential Pairs |

#### Family Studies

| Author | Thesis Title |
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author          | Thesis Title   |
|-----------------|--|
| Clement, Amy L. | Social Constructions of Adolescence in Popular Media   |
| Zimmer, Hazel Y | A Comparison of Employees of a Traditional Company to Employees of a Family Friendly Company on Job Satisfaction, Locus of Control, Stress, and Financial Security |

#### Genetics

| Author             | Thesis Title  |
|--------------------|---|
| Albertson, R Craig | Phylogeny of Some Lake Malawi Cichlids Using Anonymous DNA Markers  |
| Hogan, Sarah Tegan | the Role of Cyclic Adenosine Monophosphate in the Production of Shiga Like Toxin II by Escherichia Coli O157 H7 |

#### History

| Author                | Thesis Title  |
|-----------------------|---|
| Carson, Sharon M      | Persistence of Community: The Scottish-Irish Experience in Londonderry New Hampshire 1719-1770          |
| O'Reilly, Amy E       | the Creation of a Public Persona Provincial Russian Gentry Womens Education 1764-1861                   |
| Roth, James M.        | the Many Faces of Crispus Attucks the Symbolism of Crispus Attucks in the Formation of American History |
| Rutledge, Bethany S.  | "The Air about the Factories:" Industry and Environment in Nineteenth-Century Dover, New Hampshire      |
| Schaeffer, Astrida E. | Women Fashioning Identity: The Continuing British Influence in Federal America                          |
| Yakovakis, Andrea L   | Perfect Americans: The Greek Immigrant Community in Manchester, New Hampshire                           |

#### Hydrology

| Author              | Thesis Title   |
|---------------------|--|
| Johnson, Carole D   | Subsurface Lithology and Fracture Occurrence and Their Effects on Hydraulic Conductivity: Mirror Lake Research Site Grafton County New Hampshire |
| Marcoux, Garrick J. | Testing the Self Potential Method for Detecting Seepage Paths Through Earth Dams in New Hampshire  |

#### Kinesiology

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author               | Thesis Title   |
|----------------------|--|
| Barbuto, Nicole A.   | So You think Girls Can't Play Soccer? An Investigation of Boys' Perceptions of Girls' Soccer Playing Abilities   |
| Goodwin, Seth H      | A Study of the Effects of Proctor Academy's Mountain Classroom Program on Students' Perceived Competence, Adequacy, and Global Self-Worth  |
| Mara, Eileen B.      | Reconciling Aggression Moral Reasoning and Christian Belief Systems in a Sport Setting   |
| Rossiter, Timothy K. | a Survey of Journal Practices Among Faculty Teaching Outdoor Education at Institutions Offering Baccalaureate Degree Granting Programs with Specializations in Outdoor Education |
| Seaman, Jayson O     | Outcomes Measurement of Service and Outdoor Programs   |

#### Liberal Studies

| Author                 | Thesis Title   |
|------------------------|--|
| Aldrich, Virginia Bean | The Art of Learning: A Reflective Essay About How My Experiences in Art Education Influenced My Educational Philosophy |
| Dowd, Matthew J.       | Merleau-Ponty's Ontology and its Implications Regarding the Self Truth and God   |

#### Mechanical Engineering

| Author               | Thesis Title   |
|----------------------|--|
| Diprofio, William M. | A Flexible Commercial Barrier for Oil Containment in Estuaries |

#### Microbiology

| Author                 | Thesis Title   |
|------------------------|--|
| Hoyt, Jonathan L       | Fortified Sera and Their Applications in Environmental Virology a Comparison of Fetal Bovine Serum and Four Commercially Available Serum Substitutes |
| Laganas, Valerie A.    | Attachment and Invasion Locus in Yersinia Effects of Ail on the Intracellular Penetration of Yersinia Pestis   |
| Rovaldi, Christopher R | Anaerobic Physiology of Aeromonas Hydrophila Effect of Iron and Oxygen Upon Aerolysin Production   |

#### NatRsrc:Environmental Consvrtn

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                 | Thesis Title   |
|------------------------|--|
| Ernst, Denise C.       | Assessment of Potential of Thompson Farm for Inclusion in an Ecological Reserve System Through Projection of Future Tree Species Abundances                                      |
| Gardoqui, Daniel M.    | The Potential for Ecological Reserves in New Hampshire Forests: An Assessment of Policy and Management Dimensions  |
| Lamoreau-Cyr, Janet B. | Lessons Learned on Shaker Hill with the Brothers of Christian Instruction: A Case Study of the Relationship Between Religious Values, Monastic Vows, Stewardship, and Community. |
| Smith, Michael L.      | Way of Life of the Innu: The Social and Environmental Impacts of Hydro-Electric Development in Northeastern Quebec and Labrador Newfoundland Canada                              |

#### NatRsrc:Water Resources

| Author             | Thesis Title  |
|--------------------|---|
| Marquis, Daniel M. | On Site Sewage Disposal Systems as a Potential Nonpoint Source of Pollution to New Hampshire Coastal Waters |

#### NatRsrc:Wildlife

| Author              | Thesis Title  |
|---------------------|---|
| Buresch, Kendra     | Seasonal Patterns of Abundance and Habitat Use by Bats on Martha's Vineyard, Massachusetts        |
| Sweeney, James T.   | Winter Habitat Selection by Bald Eagles in New Hampshire  |
| Tarr, Matthew David | The Impact of Winter Feeding on the Energy Balance of White-Tailed Deer in Northern New Hampshire |

#### Nursing

| Author        | Thesis Title  |
|---------------|---|
| Holt, Jean L. | An Exploration of the Concept of Hope in the Dominican Republic |

#### Occupational Therapy

| Author          | Thesis Title   |
|-----------------|--|
| Kean, Elizabeth | The Efficacy of an Intervention Program for Improving the Static and Dynamic Balance of Children with Hearing Loss |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title   |
|--------------------|--|
| Lyons, Kathleen D. | Clinical Reasoning in Tandem with the Occupational Therapist<br>a Case Study of the Clinical Reasoning of an Occupational<br>Therapy Assistant |
| Raymond, Kerry A.  | Iontophoresis and Ultrasound: A Comparison of Therapeutic<br>Modalities as Part of a Treatment for De Quervain's Disease                       |
| Simmons, Douglas C | The Relationship Between Occupational Therapy Outcome<br>Prediction and the Canadian Occupational Performance<br>Measure                       |

#### Plant Biology

| Author            | Thesis Title  |
|-------------------|---|
| Adams, Leslie M   | The Floristic Diversity of the Experimental Watershed of the<br>Hubbard Brook Experimental Forest New Hampshire |
| Gengarely, Lara M | Structure and Dynamics of Atlantic White Cedar Stands Brown<br>Mill Pond Rye New Hampshire                      |
| Larsen, Jon A     | Protoplast Production and Regeneration in Porphyra Species<br>for Use in Genetic Engineering                    |
| Vining, Kelly J   | Seed Development in Hull-Less-Seeded Pumpkin<br>(CUCURBITA PEPO L.)   |

#### Psychology

| Author             | Thesis Title                                      |
|--------------------|---|
| Pullara, Olivia R. | Aging, Environmental Support, and Procedural Text |

#### Reading

| Author               | Thesis Title                                     |
|----------------------|--|
| Mozenter, Allison B. | Service Learning Empowers at Risk Adolescents    |
| Palinski, Kathleen A | Literacy and PDD-NOS in a Transitional Classroom |

#### Resource Administration & Mgmt

| Author           | Thesis Title  |
|------------------|---|
| Garpow, Wendy J. | Sustainability Indicators Regarding Tourism Development and<br>Coral Reef Conservation: A Case Study of Akumal, in the<br>Mexican Caribbean |

#### Resource Economics





## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title  |
|---------------------|---|
| Farrigan, Tracey L. | FIT-4-NH A Fiscal Impact Tool For New Hampshire Communities |

#### Sociology

| Author                 | Thesis Title  |
|------------------------|---|
| Bowen, Derek M         | History, Ideology, and the World Church of the Creator  |
| Cunningham, Patrick J. | The New England Groundfishing Industry a Comparison of Past Development Current Management and the Vessel Buyout in Northern and Southern New England |
| Henning, Gavin W       | Campus Conflicts: Grievance Management Involving College Students   |
| Muller, Paul A         | Family Moderators of the Relationship Between Deviant Peer Association and Delinquency  |

#### Zoology

| Author                 | Thesis Title   |
|------------------------|--|
| Bidwell, Deborah A.    | The Effects of Temperature on the Early Life History Stages of Witch Flounder, <i>Glyptocephalus Cynoglossus</i>   |
| Bleazard, David J.     | Salinity as a Refuge from Predation in a Nudibranch- Hydroid Relationship within the Great Bay Estuary System  |
| Fairchild, Elizabeth A | Winter Flounder, <i>Psuedopleuronectes Americus</i> Stock Enhancement: A Preliminary Investigation into the Performance of Cultured Juvenile Fish                            |
| Irons, Michael S.      | Lumpfish ( <i>Cyclopterus Lumpus</i> ) Aquaculture: Larval Responses to Diet, Stocking Density, and Temperature  |
| King, Nicholas J       | Fingerling Production of Summer Flounder: Commercial-Scale Experiments Studying Hormonal Manipulation of Broodstock, Larval Stocking Density, and Weaning Diet Performance   |
| Orringer, Scott L.     | Larval Biology of Northern Pink Shrimp, <i>Pandalus Borealis</i> Kroyer  |
| Sisson, Chad G         | An Analysis of Ecological Morphological Developmental and Behavioral Variation of the Nudibranch <i>Dendronotus Frondosus</i> : Sibling Speciation or Phenotypic Plasticity? |
| Tyrrell, Megan C       | Predicted Impacts of the Introduced Crab, <i>Hemigrapsus sanguineus</i> , in Northern New England  |

### Academic Year of Graduation: Fall 1997 to Summer 1998

#### Adult & Occupational Education

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author           | Thesis Title   |
|------------------|--|
| McCormack, Celia | A Perspective on College Teaching Issues: Does College Involve a Change in Learning Style? |

#### Animal & Nutritional Sciences

| Author                 | Thesis Title  |
|------------------------|---|
| DiFronzo, Marcia Hintz | Subjective Evaluation of Nutrition Counseling Methods in the Treatment of Anorexia Nervosa        |
| McClung, James P       | The Influence of Zinc Status on the Rate of Zinc Uptake Into Endothelial Cells                    |
| Morris, Sharon A.      | The Effects of Gender and Exercise on Risk Factors for Atherosclerosis in Yucatan Miniature Swine |
| Zacher, Laurie A.      | Cyclic Amp Metabolism by Swine Adipocyte Microsomal and Plasma Membranes                          |

#### Biochemistry

| Author             | Thesis Title   |
|--------------------|--|
| Gamble, Rebekah L. | Isolation of Lamprey Gonadotropin-Releasing Hormone-I cDNA from the Sea Lamprey, <i>Petromyzon Marinus</i>   |
| Gokarn, Yatin R    | Physical Characterization of Pegylated Proteins  |
| Grady, John K.     | Analytical Ultracentrifugation Studies of the Iron Distributions in Horse Spleen Ferritin  |
| Grazio, Hector J.  | Kinetic and Equilibrium Binding Analysis of Cyclic GMP Binding to the Noncatalytic Binding Sites on the Retinal Photoreceptor Phosphodiesterase                            |
| Kroe, Rachel R     | Biophysical Characterization of the Endothelial Cell Protein C Receptor with Protein C, Activated Protein C and Thrombomodulin: Analysis by Analytical Ultracentrifugation |
| Messer, Jeffrey A. | Wavelength-Dependent Turbidometric Analysis of Gel Formation   |

#### Chemical Engineering

| Author            | Thesis Title   |
|-------------------|--|
| Beck, Charles L.  | Diffusion Controlled Delivery of Antifouling Agents from Marine Coatings       |
| Golden, Claire A. | Decomposition of Refrigerants R-12, R-22, and R-50 by Barrier Discharge        |
| Nikolov, Volen R  | The Three-Phase Inverse Fluidized Bed. Hydrodynamics and Mass Transfer Studies |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title                                  |
|-------------------|---|
| Quimby, B. Joseph | Fume Formation Rates in Gas Metal Arc Welding |

#### Chemistry

| Author                     | Thesis Title  |
|----------------------------|---|
| Charles, Kristine Phillips | Evaluation of Extraction Methods and Reversed Phase High Performance Liquid Chromatographic Separations of Pharmaceuticals and Natural Products Using High pH Mobile Phases |
| Civiello, Michael D.       | Remote Distributive Fiber Optic Chemical Sensor   |
| Heller, Amy A.             | Speciation and Seasonal Trends of Mercury in Spartina Alterniflora in the Great Bay Estuary (New Hampshire)   |
| Hines, Michael S.          | Studies of Bicyclic and New Tricyclic Tetraamine Ligands  |
| Kaval, Necati              | Derivatized Vinylbenzyl Chloride and 2,4,5-Tri-Chlorophenyl Acrylate Copolymers for Optical pH Sensing  |
| Pannhorst, Thomas S.       | Speciation of Mercury in Eelgrass ( <i>Zostera Marina</i> L.): A Seasonal Study in the Great Bay Estuary, NH  |

#### Civil Engineering

| Author                 | Thesis Title   |
|------------------------|--|
| Barrett, Kristen L.    | The Effect of Advanced Oxidation Processes on Organics Removal from Wastewater                             |
| Cavanaugh, Glenn A     | Bioreactor Feasibility Study for Treatment of Trichloroethene (TCE) Contaminated Air Stream                |
| Coviello, Cheryl R     | An Early Evaluation of the Use of High Performance Concrete in the Route 104 Bridge: Bristol New Hampshire |
| Hines-Stanton, Leah E. | The Response of Subsurface Bacteria and Protists to an Organic Perturbation: Column Studies                |
| Mercier, David J.      | Characterization and Treatability of Natural Organic Matter from the Croton Reservoir-Pilot Study II       |
| Ordway, Jonathan       | The Significance of Local Hydraulics on Estimates of Ground Water Mound Height                             |
| Page, Thomas G.        | GAC Sandwich Modification to Slow Sand Filtration for Enhanced Removal of Natural Organic Matter           |
| Simonton, Julie A.     | Pilot Scale Evaluation of Bioventing of No.2 Fuel Oil Effect of Oxygen, Nutrient, and Bacterial Addition   |
| Snicer, Gregory A.     | Pilot Scale Evaluation of Ultraviolet Technology in Drinking Water Treatment                               |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Communication Disorders

| Author                 | Thesis Title   |
|------------------------|--|
| Bruning, Brittany Gray | Efficacy of Enhanced Gestures for Children with Angelman's Syndrome: A Pilot Study |

#### Computer Science

| Author            | Thesis Title  |
|-------------------|---|
| Bradshaw, James T | Approaches to Web-Based Network Management  |
| Cook, Dana P.     | Implementing Data-Parallel Programs on Shared-Memory Multiprocessor Architectures using Posix Threads |
| Luchaup, Daniel   | A Data-Parallel C Extensions Compiler Front End   |
| Medlock, Todd A   | Supporting Internode Communications on Clusters of Commodity SMP Machines                             |
| Smith, Craig H    | CUB: A Debugger for C*  |

#### Counseling

| Author             | Thesis Title  |
|--------------------|---|
| Koebrich, Frank J. | On Providing Psychological and Financial Preretirement Counseling for Executives and Professionals:A Holistic Model |
| Maloney, Lisa A.   | Self, Family, Community: Factors Relating to the Well-Being of Adolescents across Sexual Orientations               |
| Peterson, Eric D.  | An Examination of Heterosexual Bias in Treatment  |
| Smith, Lisa C      | A Psychoeducational Group for Male Partners of Female Survivors of Childhood Sexual Abuse                           |
| Walcott, Dawn M.   | Domestic Violence Court Counselors: A Model for Working with the Criminal Justice System                            |

#### Earth Sciences

| Author            | Thesis Title  |
|-------------------|---|
| Benway, Heather M | An Investigation of the Nutrient Dynamics of Jeffreys Basin: A Seasonal Nutrient Trap                             |
| Bray, Alison M    | Controls on Alkali Metal Chemistry in Hydrothermal Vent Fluids from 9-10 degrees North Latitude,East Pacific Rise |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author           | Thesis Title  |
|------------------|---|
| Reusch, David B. | Recent Climate in Central West Antarctica Using Ice Cores |

#### Earth Sciences: Geology

| Author              | Thesis Title   |
|---------------------|--|
| Zaprowski, Brent J. | The Geologic and Climatic History of a Salt Marsh along the Squamscott River, Southeastern New Hampshire |

#### Economics

| Author               | Thesis Title  |
|----------------------|---|
| Fine, Keith A.       | The Reserve Army of the Underemployed: The causes and implications of the growth in the Temporary Help Industry |
| Moseley, Michelle B. | Gender in Structural Adjustment: Shouldering the Inequitable Burden   |

#### Electrical Engineering

| Author                  | Thesis Title  |
|-------------------------|---|
| Bergin, Jameson S.      | Wind Sampling Properties of the UNH Meteor Radar  |
| Chevalier, Timothy W.   | A Computational Method for Computing the Finite Conductivity Diffraction Coefficient Using Huygen Sources |
| Karcz, Kevin J.         | Design of a Token Ring Local Area Network Symbol and Generator and Receiver                               |
| Natham, Venkataraman R. | Monitoring Multi-Protocol over ATM (MPOA) Transactions for Application to Interoperability Testing        |
| Pawlak, Anthony J.      | Automatic Human Brain Cell Recognition  |
| Smith, Wayne J          | An Investigation into a Hands-Free Computer Mouse Using EEG Patterns Associated with Imagined Movements   |
| Tate, Richard J.        | Irregular Motions of the Upper Atmosphere   |
| Visegrady, Tamas L      | A System-On-A-Chip Design Process Implemented in a University Environment                                 |
| Wira, William R.        | Optimization of a CMAC Neural Network in a Trotting Quadruped Robot                                       |

#### Elementary Education

| Author | Thesis Title |
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author          | Thesis Title  |
|-----------------|---|
| Bayha, Amy M.   | Professional Growth in Teachers as a Result of Collaborative Supervision  |
| Forrest, Jay R. | Transformation of the Traditional Junior High School into the Middle School: Perceptions of Experienced Teachers of the Middle Grades |

#### Family Studies

| Author                     | Thesis Title  |
|----------------------------|---|
| Archer, Shannon L.         | The Military Spouse, the Toughest Job in the Service: Career Satisfaction and Social Support among Military Spouses |
| Hutchinson, Shing Shien L. | The Division of Household Labor: a Descriptive Study 1960-Present   |

#### Genetics

| Author                   | Thesis Title  |
|--------------------------|---|
| Karagiannides, Iordanes  | Immunity Induced by a v-src DNA Construct in 6.B Congenic Chickens                            |
| Komarnitsky, Svetlana I. | The DFB2 Protein Kinase Binds to and Acts through the Cell-Cycle Regulated DBI11/MOB1 Protein |
| Pan, Jing                | CCR4 Associate Factor 16 (CAF16) is a Putative Atpase   |

#### History

| Author                 | Thesis Title   |
|------------------------|--|
| Kaputa, Beth McDermott | Jonathan Edwards and the Redefinition of American Masculinity: From the Power of Fathers to the Power of Men                                     |
| Leavenworth, Peter S   | "The Best Title That Indians Can Claieme...": Native Agency and Consent in the Transferral of Penacook-Pawtucket Land in the Seventeenth Century |
| Piecuch, Jim R         | Security, Exploitation, and Anglicization: Politics and Society in Nova Scotia, 1710-1760  |
| Wiser, William M.      | "Where Things Familiar Cease and Strange Begin": Nineteenth-Century English Language Travel Accounts of Brazil                                   |

#### Hydrology

| Author             | Thesis Title  |
|--------------------|---|
| Framptom, Joseph B | Channel Morphology and Suspended Sediment Transport on the Lamprey River, New Hampshire |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title   |
|--------------------|--|
| Roy, Nicole Delude | Effect of Calcite Cementation on Permeability and Heterogeneity, Sierra Ladrones Formation, New Mexico |

#### Kinesiology

| Author               | Thesis Title  |
|----------------------|---|
| Collins, Karen E     | Female Athletes' Perceptions and Parents' Expectations: The Influence on Competitive Anxiety, Goal Orientations, and Expectancies             |
| Steele, Carrie Sharp | An Assessment of the Reaction of Teachers in a Residential Treatment Facility Education Program to the Introduction of Experiential Education |

#### Mechanical Engineering

| Author         | Thesis Title  |
|----------------|---|
| Hills, Mark E. | Hydrodynamic Stability of a Rotating Elliptically Cross-Sectioned Cylinder of Fluid |

#### Microbiology

| Author                  | Thesis Title  |
|-------------------------|---|
| Partridge, Jeffrey B.   | The Effect of Purified Pulmonary Surfactant Protein A(Sp-A) on the Phagocytosis of Group B Streptococcus by Murine Alveolar Macrophages |
| Strong, Daniel B        | Toluene Degradation by Anaerobic Bacteria under Iron-Reducing Conditions  |
| Summer-Brason, Beata W. | Seasonal and Spatial Dynamics of Detectable <i>Vibrio vulnificus</i> and <i>Vibrio parahaemolyticus</i> in Great Bay Estuary            |

#### NatRsrc:Environmental Consvrtn

| Author           | Thesis Title   |
|------------------|--|
| Budd, Rebecca J. | Assessing the Accuracy of Land Cover Data Collected by Students (Grades 1-12) for the Global Learning to Benefit the Environment (GLOBE) Project |
| Fried, Alan A.   | New Frontiers in Land Cover Classification: A Comparison of the Accuracies of Professional and K-12 Student Field Data Collection Methods        |

#### NatRsrc:Forestry

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title   |
|-----------------------|--|
| Bolster, Katherine L. | Visible and Infrared Spectral Analysis of Fresh Northern Temperate Forest Foliar Chemistry   |
| Burnett, James S      | The Effect of Road-Salting Regimes (Sodium Chloride) and Salt Spray on the Radial Growth and Foliar Health of Eastern White Pine ( <i>Pinus strobus</i> ) in New Hampshire |
| Burnham, Bruce E.     | Spectral Characterization of Sphagnum  |
| Pereira, Valeria D.   | Spatial and Temporal Analysis of Floodplain Ecosystems - Amapa, Brazil - Using Geographic Information Systems (GIS) and Remote Sensing                                     |
| Pontius, Jennifer A   | The Influence of Micro-Environmental Factors on Sugar Maple Demographics in the White Mountains of New Hampshire: A Study of Potential Elevational Migration               |

#### NatRsrc:Soil Science

| Author             | Thesis Title   |
|--------------------|--|
| Lucason, Philip P. | Relationship of Soil Color to Soil Chemical Properties and Lead Sorption       |
| Morton, Laura S.   | Radionuclide Bioabsorption by Blueberry Plants Growing on Conway Granite Soils |

#### NatRsrc:Water Resources

| Author               | Thesis Title   |
|----------------------|--|
| Carlson, Noel C      | Transplantation and Morphological Responses of the Seagrass <i>Zostera marina</i> L. along a Depth Gradient within the Great Bay Estuary |
| Edwardson, Kenneth J | Characterization of Hyporheic Influences on the Hydrology and Geochemistry in Contrasting Arctic Streams                                 |
| Eklund, Tamara J.    | Nitrogen Cycling in a Tropical Rain Forest Ecosystem: Luquillo Mountains, Puerto Rico  |

#### NatRsrc:Wildlife

| Author          | Thesis Title  |
|-----------------|---|
| Jensen, Paul G. | Heat Increment of Feeding and its Effect on the Energetic Cost of Thermoregulation in White-Tailed Deer Fawns |

#### Nursing

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Feeney, Adele S.    | The Characteristics of Women with Inflammation Noted on Papanicolaou Smears-One Community's Experience   |
| Suyematsu, Kathleen | A Study of the Relationship between Workplace Leadership and Effectiveness as Reported by Advanced Registered Nurse Practitioners in New Hampshire |

#### Occupational Therapy

| Author                 | Thesis Title   |
|------------------------|--|
| Morin, Jeanne R        | Selective Admission Criteria in a Technical Occupational Therapy Program   |
| Schinkel-Orr, Mattie   | Associative Learning in Adults with Schizophrenia  |
| Vanderwerken, Alice L. | Distal Radius Fractures - Dynamic External Fixation Utilizing the Ulson Fixator and Early Mobilization: Evaluating the Functional and Anatomical Outcome |

#### Ocean Engineering

| Author            | Thesis Title  |
|-------------------|---|
| Boddie, Michael   | A Numerical Analysis of the Jere E.Chase Ocean Engineering Laboratory Tow Carriage System |
| Ozyalvac, Mustafa | Behavior of the Spilled Oil Contained by a Barrier  |
| Steen, Robert R.  | A Flexible, Oil Containment Barrier for Fast Currents                                     |

#### Physics

| Author                | Thesis Title   |
|-----------------------|--|
| Wunderer, Cornelia B. | Feasibility Study of SONTRAC- A Neutron Tracking Telescope for Solar, Atmospheric and Other Applications |

#### Plant Biology

| Author              | Thesis Title  |
|---------------------|---|
| Thompson, Therese A | Development of Techniques for the Selective Isolation of Basidiomycetes from Coarse Woody Debris and Contiguous Soil Horizons |
| Wheeler, Wendi S.   | A Time-Course Study of Chloroplast Thylakoid Dynamics Associated with Sudden Exposure to Low Irradiance                       |

#### Political Science



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title  |
|-----------------------|---|
| Pappaioanou, James L. | The Foreign Policy of Greece During the Yugoslav Crisis of 1991-1995: An Opportunity Lost |

#### Psychology

| Author             | Thesis Title  |
|--------------------|---|
| Dearing, Eric C    | Maternal Caregiving, Ecological Context, and Children's Friendships     |
| Farreras, Ingrid G | Psychotherapy Versus Placebo for Depression: A Meta-Analysis, 1973-1997 |

#### Reading

| Author                 | Thesis Title   |
|------------------------|--|
| Alexandrino, Sandra C. | Teaching English as a Foreign Language: An Analysis of my Career |
| Nary, Debora G         | You Can Teach Phonological Awareness Using Children's Literature |

#### Resource Administration & Mgmt

| Author             | Thesis Title  |
|--------------------|---|
| Pfister, Laura K.  | Public Access to Lakes and Rivers in New Hampshire: Further Investigation of a Model Examining the Predictive Validity of Attitudes towards Natural Resource Issues |
| Radden, Jennifer L | Integrating Satellite Data on Deforestation with Census Data to Analyze Land-Use Patterns in the Amazon   |

#### Sociology

| Author                  | Thesis Title   |
|-------------------------|--|
| Doiron, Kari A.         | Understanding the Home Schooling Population: An Exploratory Study                                  |
| Kirkpatrick, Margaret A | Conflict and Its Management among First Year College Students                                      |
| Stracuzzi, Nena F       | Parenting Strain and its Impact on Psychological Well-Being: A Comparison Across Family Structures |
| Tsang, Chiu-wai         | The Status Attainment of Early Childbearers: In Integration of Life Course and Stress Research     |

#### Zoology

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title  |
|-----------------------|---|
| Brumbaugh, Rebecca D. | Parental Investment Strategies in the Red-Backed Salamandar, <i>Plethodon Cinereus</i>  |
| Galus, Aaron C        | A Comparison of White-Footed Mouse ( <i>Peromyscus leucopus</i> ) and Southern Red-Backed Vole ( <i>Clethrionomys gapperi</i> ) Populations in Road Fragmented and Unfragmented Forest Habitats |

### Academic Year of Graduation: Fall 1996 to Summer 1997

#### Adult & Occupational Education

| Author            | Thesis Title   |
|-------------------|--|
| Farwell, Robin M. | Gender, Age, Education and Income Levels on Fruit and Vegetable Consumption in the State of New Hampshire in 1994                |
| Swenson, Karen L. | Educational Parity in New Hampshire: Is Educational Opportunity within the Public Schools a Function of an Economic Class System |

#### Animal & Nutritional Sciences

| Author                  | Thesis Title   |
|-------------------------|--|
| Bennett, Brian J.       | Effects of a Highfat Diet and Exercise on Dehydroepiandrosterone, Metabolism, and Insulin Sensitivity      |
| Finnegan, Richard B.    | Characterization of Cyclic AMP Efflux from Swine Adipocytes  |
| Heckler, Barbara K.     | Lactate Production by Swine Adipocytes in Vitro: Effects of Animal Age, Glucose Concentration, and Insulin |
| Paulhamus, Livia Gorini | An In Vitro Model of the Blood-Brain Barrier   |
| Rowe, David J.          | Characterization of Zinc and Albumin Uptake into Endothelial Cells   |

#### Biochemistry

| Author           | Thesis Title  |
|------------------|---|
| D'Amours, Marc R | Inhibition of the Frog Rod Photoreceptor Phosphodiesterase by Its Inhibitory Gamma Subunit and by a PDE-Specific Inhibitor, E4021 |
| Gazourian, Lee   | Activity of Lamprey GnRH-I,-III or Analogs in the Pituitary and Gonads of the Adult Sea Lamprey, <i>Petromyzon marinus</i>        |
| Guo, Chun        | Involvement of SRC SH2 Domain and Carboxyl Terminus in Binding to Polyoma Virus Middle T Antigen                                  |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title   |
|-----------------------|--|
| Iyer, Sudha A.        | Binding of Activated C-SRC to V-SRC, Host Cell Phosphoproteins and Phosphopeptide Antibodies   |
| MacMillan, Shannon H. | Antibodies against Tyrosine Phosphorylated Peptides Mimicking Sequences of the Human Platelet-Derived Growth Factor (PDGF) Receptor Block Co-Precipitation of Active PP60c-src with the PDGF B:B Stimulated Receptor |
| Rosen, Alan S.        | Identification of Gonadotropin-Releasing Hormone Binding Sites Associated with the Brain of the Adult Sea Lamprey, <i>Petromyzon marinus</i>   |
| Zhang, Xiaoming       | Study of Proto-Oncogene Function in <i>Caenorhabditis Elegans</i> Using Reverse Genetics   |

#### Chemical Engineering

| Author                | Thesis Title  |
|-----------------------|---|
| David, John L         | Thermal Swing Adsorption Process for Oxygen Production                                  |
| Ren, Jianhua          | Distribution of Particles in Welding Fume   |
| Wilkinson, Kenneth W. | Characterization of Supported Tungsten Sulfide Catalyst ex Ammonium Tetrahydrotungstate |

#### Chemistry

| Author                   | Thesis Title   |
|--------------------------|--|
| Abbot, Sarah C.          | Photochemical Generation of Carbene Intermediates by Fragmentation of Cyclopropanated Phenathrenes                                 |
| Daoust, Kimberly Pierson | Theoretical and Experimental Studies on Strained Organic Molecules   |
| Morrison, Matthew A.     | Development of Analytical Methods for the Speciation of Mercury in Environmental Samples from the Great Bay Estuary, New Hampshire |
| Ramachandran, Anita      | Fourier Transform Spectroscopic Studies of Sterol-Phospholipid Interaction   |

#### Civil Engineering

| Author           | Thesis Title   |
|------------------|--|
| Blair, Joseph R  | Self-Boring Pressuremeter Testing of the Connecticut Valley Varved Clay                                |
| Grotton, Erik J. | Effect of Chlorine Dioxide Generator Efficiency on the Byproducts and Regeneration of Chlorine Dioxide |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author               | Thesis Title  |
|----------------------|---|
| Karpinski, Stanley J | A Physical Evaluation of Municipal Solid Waste Grate Ash as an Aggregate Substitute in Asphaltic Concrete |
| Mosher, Wallace M    | The Image Analysis of Air-Voids in Hardened Concrete  |
| Murray, Jeffrey S.   | Treatment and Reuse of Petroleum Contaminated Soils through Cold Mix Asphalt Incorporation                |
| Reitter, Eric T.     | Evaluation of Cold-Mix and Hot-Mix Asphalt Amended with Lead, Cadmium, and Sodium Contaminated Soil       |
| Trenner, Mark D.     | Radon Removal from Small Community Drinking Water Systems using Granular Activated Carbon                 |

#### Communication Disorders

| Author            | Thesis Title   |
|-------------------|--|
| Bell, Jennifer E. | National Survey of Perceptions and Practices Regarding Speech-Language Services at Maternal and Child Health Affiliated Programs |

#### Computer Science

| Author                      | Thesis Title   |
|-----------------------------|--|
| Breslau, Dana L.            | WebPals: An Internet-Based Mathematics Education Tool                              |
| Briggs, Edward S.           | OOGRAVIS--Object-Oriented GRaphics Algorithm and Visualization System              |
| Crabb, Andrew H.            | Scientific Visualization Using Hyperslice  |
| Dover, Virginia M.          | Tree Storage of Multi-Dimensional Data   |
| Matthias Powers, Collette M | Understanding References to Quantified Expressions                                 |
| Nalliannan, Kudiarasu       | Flexidesc: A Scientific Visualization and Data Management System                   |
| Srinivas, Krithika          | A High-Speed, Low-Latency Protocol for C* Parallel Programming over ATM based LANs |
| Vohra, Quaizar H.           | Implementation of IPv6 on BSD 4.4  |

#### Counseling

| Author | Thesis Title |
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                  | Thesis Title  |
|-------------------------|---|
| Allain, Frances T.      | Downsizing: The relationship between Current Corporate Practices and Employee Satisfaction in Southern New Hampshire and Massachusetts    |
| Bray, Timothy E.        | Campus Experiences, Learning Orientation, and Classroom Experiences: Their Impact on College Student Values                               |
| Kane, Kim D.            | Asperger's Syndrome and the Link to Juvenile Delinquency  |
| Leake, Barbara H.       | Dream Workshop Instruction and the Integration of Personal Insight for Nine Female Participants   |
| Peterson, Doris Y.      | Spirituality: A Thirteenth Step in Recovery from Alcoholism   |
| Quaresma, Maximilian R. | An Adventure Program in the Treatment of Depression   |
| Rafferty, Catherine O.  | Relationship between Marital Satisfaction, Child Status, Life Satisfaction, Gender Role Orientation and Satisfaction Attributed to Spouse |
| Vogel, Sara J.          | Creative Counseling in the Educational Setting: Integrating Cognitive Therapy and Multiple Intelligence Theory                            |
| Webster, David R.       | Song Preference in Popular Music: Developmental Implications Regarding Adolescents' Use for Psychosocial Stage Identification             |

#### Earth Sciences

| Author                 | Thesis Title   |
|------------------------|--|
| Boeckeler, Andrew J.   | Identification of Sulfide Mine Contamination Using Lead Isotopes: A Study of the Coastal Maine Copper District |
| Hart, Valerie J.       | Spatial Variability of Soluble Ions on Surface and Preserved Snow at Summit, Greenland                         |
| Martorano, Caroline D. | Nutrient Dynamics During Blooms of <i>Alexandrium</i> spp. in the Southwestern Gulf of Maine                   |
| Prouty, Nancy Grumet   | Glaciochemical Investigations of the Last 1,000 Years from the Penny Ice Cap, Baffin Island                    |

#### Earth Sciences: Geology

| Author            | Thesis Title  |
|-------------------|---|
| Trainer, Kevin D. | Holocene Stratigraphy and Evolution of Tidal Marshes on Great Bay and the Squamscott River, New Hampshire |

#### Earth Sciences: Oceanography

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author    | Thesis Title   |
|-----------|--|
| Feng, Hui | Wind-Induced Responses of the Western Coastal Gulf of Maine during Spring and Summer, 1994 |

#### Electrical Engineering

| Author              | Thesis Title   |
|---------------------|--|
| Brown, Garry M.     | A Dynamic Model of a Sustainable Facility  |
| Gao, Yanli          | A Custom Tester for the Fast Ethernet Media Independent Interface  |
| Geary, David E.     | An Analog-Digital Interface for the Soft X-Ray Detection System on the Cooperative Astrophysics and Technology Satellite (CATSAT)              |
| Lynch, Steve P.     | The Development of Nuclear Instrumentation for a Soft X-Ray Detection System on the Cooperative Astrophysics and Technology Satellite (CATSAT) |
| Milani, Dino B.     | A Single-Board Computer System for Use on the Cooperative Astrophysics and Technology Satellite (CATSAT)                                       |
| Ramsay, Erik J.     | Controller Design for a Four Wheel Drive, Four Wheel Steer Wheelchair  |
| Woodward, Jeffrey P | Application of CMAC Neural Network Learning to a Stepping Quadruped Robot  |

#### Elementary Education

| Author             | Thesis Title   |
|--------------------|--|
| Blaisdell, Lisa A. | An Investigation of Single Sex Classrooms in Coeducational Settings: Historical Research and Theory Construction |

#### Family & Consumer Studies

| Author         | Thesis Title                  |
|----------------|-------------------------------|
| Walsh, Wendy A | Social Influences on Spanking |

#### History

| Author               | Thesis Title   |
|----------------------|--|
| Eastman, Carolyn E.  | Speaking Peace to Fight War: Gender, Authority, and Rhetoric in William Ladd's Antebellum American Peace Movement          |
| Guerrasio, Venetia M | Battle for the Immigrant Kitchen: The Gendered Nature of Culture and Class in Food Reform of Italian Immigrants, 1890-1925 |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title   |
|-----------------------|--|
| Kennedy, Kevin E.     | "The Extirpation of the German Spirit": Nietzsche's "Tragic" Critique of the Founding of the Second German Empire, and How His Critique Coincided with Anti-Liberal and Anti-Semitic Cultural Criticism in Bismarckian Germany |
| Knowles, Kelly Shea   | "A Word to the Ladies": An Examination of the Polly Warner Library   |
| MacHado, Pedro A.     | The Indian Trade Factor in Mozambique, c. 1680-1800  |
| Murray, Michael J.    | The Private Journal of Daniel S. Butrick: A New Interpretation of American Missionaries and Cherokee Removal   |
| Raya-Rivas, Alejandro | Between Friendship and Confrontation: Luso-Spanish Relations, 1931-1939  |
| Wones, Suzanne L.     | "Unreconciled Strivings:" A Study of the Effects of Race and Gender on the Identities of African American Women, 1895-1924   |

#### Hydrology

| Author           | Thesis Title   |
|------------------|--|
| Chase, James E   | The Physical Characteristics and Meltwater Output from a Snow Cover Compacted by Ski-Area Operations                           |
| Howe, Charles S. | The Hydrology of Lake Winnepesaukee  |
| Perry, James W.  | Applications of Spontaneous Polarization in the Detection and Delineation of Hydrocarbon Spills from Underground Storage Tanks |
| Smith, Thor E    | Comparison of Runoff Flow Paths in Four Basins at Sleepers River Research Watershed, Vermont                                   |

#### Kinesiology

| Author              | Thesis Title   |
|---------------------|--|
| Noble, Ellen        | Backwards versus Forward Walking: Clinical Applications in the Treatment of Lumbar Disc Patients   |
| Oltman, Julia M     | So What If the Sports Media Trivializes Women: An Exploratory Study Examining the Effect of the Sports Media on Young Female Athletes and their Self-Perceptions |
| St. Pierre, Peter E | The Effect of Ankle Position on Peak Torque and Electromyographic Activity of the Knee Flexors and Extensors during Isokinetic Testing                           |

#### Mechanical Engineering



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title   |
|-------------------|--|
| Cox, Stanley J.   | FACILE: A Design and Fabrication Infrastructure for Mechanical Parts                             |
| Lyman, Charles D. | Nonlinear Simulation and Multivariable Controller Design for a Four Wheel Drive-Steer Wheelchair |

#### Microbiology

| Author            | Thesis Title  |
|-------------------|---|
| Grassi, Robert M. | Identification of the Murine Peritoneal Macrophage Receptor that Recognizes a Salmonella Typhimurium OMPC-Like Protein                        |
| Zhong, Yu         | Survival of Surface and Subsurface Bacteria during Prolonged Starvation Stress and the Persistence of Guanosine 3'-Diphosphate 5'-Diphosphate |

#### NatRsrc:Environmental Consvrtn

| Author                 | Thesis Title   |
|------------------------|--|
| Boudreau, Barbara Buls | An Examination of Human/Wildlife Conflict in the Garamba National Park Ecosystem with an Emphasis on Crop-Raiding: (Analysis and Recommendations)                |
| Gondar, Kristen M.     | Factors Associated with the Distribution, Abundance, and Survival of Sugar Maple ( <i>Acer saccharum</i> Marsh.) Seedlings in the White Mountains, New Hampshire |
| Night, Jill C.         | Perspectives on the Crisis in the New England Groundfisheries: "You Need Someone on Deck Who's Looking Around"   |
| Radacsi, Sara E.       | Assessment of Potential Nonpoint Sources of Pollution from the Great Brook Watershed to the Exeter River: A Policy Implementation Audit                          |
| Raghavan, Malathi      | Volunteerism in Environmental Education: An Option in Fostering Environmental Awareness in Developing Countries  |

#### NatRsrc:Forestry

| Author              | Thesis Title  |
|---------------------|---|
| Pugh, Scott A.      | Applying Spatial Autocorrelation Analysis to Evaluate Error in New England Forest Cover Type Maps Derived from LANDSAT Thematic Mapper Data |
| Soulia, Margaret E. | Changes in Soil Nitrogen Processes Resulting from Previous Cultivation and Fire in a Maine Forest   |
| Spencer, Shannon L. | Anatomical, Pigment, and Spectral Evidence of Cortical Photosynthesis in <i>Populus Tremuloides</i> from the Canadian Boreal Region         |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author       | Thesis Title  |
|--------------|---|
| Yano, Yuriko | Biodegradable Dissolved Organic Carbon in Forest Soil Solution and Effects of Chronic Nitrogen Deposition |

#### NatRsrc:Water Resources

| Author             | Thesis Title                                    |
|--------------------|---|
| Arcscott, David B. | Primary Production in a 4th Order Arctic Stream |

#### NatRsrc:Wildlife

| Author         | Thesis Title  |
|----------------|---|
| Coup, Roger N  | Winter Field Metabolic Rate of Wild Turkeys in New Hampshire                                |
| Smith, Kent S. | Energetic Cost of Gestation in White-Tailed Deer ( <i>Odocoileus virginianus borealis</i> ) |

#### Nursing

| Author                    | Thesis Title  |
|---------------------------|---|
| Lavallee, Karen Tetreault | TM Women's Perceived Benefits with Use of Progesterone-10 Cream Versus Hormone Replacement Therapy for Management of Menopausal and Perimenopausal Symptoms |
| Lucier, Norman P.         | What Do Nurses Think of Their Profession: A Quantitative Study of Nurses' Job Satisfaction  |

#### Ocean Engineering

| Author                 | Thesis Title   |
|------------------------|--|
| Darnell, Lynn E.       | A Towing Carriage for the University of New Hampshire Towing and Wave Making Basin                           |
| Kennedy, John J.       | Interactive, Six Degree-of-Freedom Computer Simulation of Deep Submergence Vehicle (DSV) ALVIN               |
| Krasuski, Thomas L     | The Initial Deployment and Data Analysis of a Prototype Three Dimensional Acoustic Signal Mapping Device     |
| Pacheco, Christopher N | An Ultrasonic Transducer Calibration System for the University of New Hampshire Center for Ocean Engineering |

#### Plant Biology

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title   |
|-----------------------|--|
| Breen, John N.        | Etiology of Fusarium Fruit Rot of Melon ( <i>Cucumis melo</i> L.) in New Hampshire   |
| Hellquist, C Eric     | A Flora and Analysis of the Bryophyte and Vascular Plant Communities of Little Dollar Lake Peatland, Mackinac County, Michigan |
| Lin, Junyu            | Insertion/Deletion Polymorphisms in the Strawberry ( <i>Fragaria</i> spp.) Chloroplast Genome                                  |
| McCauley, Kathleen M. | An Analysis of the Flora, Vegetation, and Photogeography of Platt Park, Southbury, Connecticut                                 |
| Miller, Scott D.      | The Vegetation and Tree Ring History of Spruce Hole Bog  |
| Sun, Dongyu           | Modulation of Polyamine Metabolism and Tolerance to Osmotic and Salinity Stress in Plants                                      |

#### Psychology

| Author       | Thesis Title  |
|--------------|---|
| Cook, Anne E | Long-Term Memory and the Development of a Situation Model |

#### Resource Administration & Mgmt

| Author                | Thesis Title   |
|-----------------------|--|
| Dabrowski, Cynthia L. | Factors Influencing Support for Downtown Redevelopment: A Case Study of Hampton, New Hampshire   |
| Donnelly, Timothy J.  | The Economic Feasibility and Impacts from Co-Locating Adjunct Industries Adjacent to Existing Wood Fired Electrical Generating Plants in New Hampshire |
| Simons, Richard M.    | The Effects of Conservation Land on Nearby Property Values   |

#### Sociology

| Author               | Thesis Title  |
|----------------------|---|
| Bellinger, Christina | Conflict in Academic Libraries: An Exploratory Study                |
| Borden, Anne L.      | The Social Worlds of Kids Experienced and Observed                  |
| Good, Jason M.       | Conflict and Control in a Text-Based Virtual Reality                |
| Grimes, Jody         | Community Context and Academic Outcomes in Alaskan School Districts |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title  |
|---------------------|---|
| Hill, Kimberly A.   | Risk Factors for the Generational Transmission of Child Maltreatment                    |
| Mahoney, Patricia S | Exploring Reports of Wife Rape from the Redesigned National Crime Victimization Survey  |
| Yamaguchi, Makiko   | Soujourner Adaptation: An Exploratory Study of Japanese Housewives in the United States |

#### Special Education

| Author              | Thesis Title  |
|---------------------|---|
| Sousa-Neto, Joao A. | Speech and Language Services for Students with Special Needs in Elementary Public Schools in New Hampshire and Fortaleza, Brazil: A Cross Cultural Reflective Essay |

#### Zoology

| Author                       | Thesis Title   |
|------------------------------|--|
| Demian, Douglas J.           | Mitogenic Signalling Pathways during Spermatogenesis in the North Atlantic Sea Star, <i>Asterias vulgaris</i>                                      |
| Dufort, Christopher G.       | Detection of Salinity by the American Lobster, <i>Homarus americanus</i>   |
| MacIntyre, Janet K.          | The Interrelationships of GnRH, PMY and GABA in Mediating Hypothalamic-Pituitary Function in the Sea Lamprey, <i>Petromyzon marinus</i>            |
| Nye, Tara L                  | Microcystins in Water, Gastropods and Bivalves from Silver Lake, New Hampshire   |
| O'Donnell, Ryan J.           | The Physiological Differentiation of the Gut of the Earthworm <i>Lumbricus terrestris</i> Linnaeus   |
| Reidy, Susan E.              | Ecological Aspects of Predator-Prey Relationship between the Nudibranch <i>Aeolidia papillosa</i> and the Sea Anemone <i>Urticina crassicornis</i> |
| Rockel-Houchens, Christina M | A Comparison of the Osmoregulatory Capabilities of Estuarine and Coastal Populations of the American Lobster, <i>Homarus americanus</i>            |
| Turtle, Sarah L              | The Effects of Deicing on Vernal Pools and on Spotted Salamander Embryonic Survivorship ( <i>Ambystoma maculatum</i> )                             |

### Academic Year of Graduation: Fall 1995 to Summer 1996

#### Adult & Occupational Education

| Author | Thesis Title |
|--------|--------------|
|--------|--------------|

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title   |
|-----------------------|--|
| Lemieux, Joanne H.    | The Evaluation of Motivational Encouragements that Contribute to a Woman's Investment in the Non-Traditional Career of Teacher in Agricultural Education in the Secondary Vocational School System of the State of New Hampshire |
| Rockenmacher, Linda L | An Assessment of the Nutrition Education Needs of Poor Rural Elderly in New Hampshire Using Focus Groups   |

#### Animal & Nutritional Sciences

| Author             | Thesis Title   |
|--------------------|--|
| Bascom, Scott S.   | Managing the Cow Culling Decision Process  |
| Caron, Lynda A.    | Resistance, Susceptibility, and Immunity to <i>Eimeria tenella</i> in UCD B-Complex Congenic Lines of Chickens |
| Pien, Christine S. | Cellular and Molecular Characterization of Hamster Aortic Atherosclerosis                                      |

#### Biochemistry

| Author           | Thesis Title   |
|------------------|--|
| McGarr, Robert M | The Second Form of Gonadotropin-Releasing Hormone in Sea Lamprey ( <i>Petromyzon marinus</i> ): Isolation, Purification and Characterization |

#### Chemical Engineering

| Author                  | Thesis Title  |
|-------------------------|---|
| Genest, Paul W.         | Continuous Purification of Porcine Lipase by Rotating Annular Size Exclusion Chromatography |
| Oberholtzer, Francis M. | Interfacial Dynamics and Dendrite Growth Velocity in Copper Electrodeposition               |

#### Chemistry

| Author               | Thesis Title  |
|----------------------|---|
| Daley, Lisa M.       | Chiral Separations Using Bile Salt Solutions in High Performance Liquid Chromatography and Micellar Electrokinetic Capillary Chromatography |
| DiRico, Kenneth J.   | Experimental and Theoretical Studies on Strained Cyclic Cumulenes   |
| Graceffa, Russell F. | The Synthesis of Polydentate Alkoxide Ligands and Reactions with Early Transition Metals  |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title   |
|--------------------|--|
| Kane, John C.      | Synthesis of Medium-Sized Phosphorus-Heterocycles and Related Compounds  |
| Maher, Robert S.   | The Effect of Reactant Rotation on the Gas Phase Reaction $\text{Cl} + \text{HCl} \rightarrow \text{Cl} + \text{HCl}$ : A Comparison of Quantum and Classical Dynamics |
| McDonald, Wayne S. | Two-Directional Synthesis of Polycyclopropanes   |
| Theberge, Cory R   | Diastereoselective Synthesis of Bicyclopropanes  |
| Tran, Megan T.     | Synthesis of Novel Vanadium and Titanium Complexes of the Atrane-Family Alkoxide Ligand Tris (2-Methyl-2 Propoxide) Amine and their Reactions with Organic Cooxidants  |

#### Civil Engineering

| Author                | Thesis Title   |
|-----------------------|--|
| Cransac, Didier       | Lateral Stress Evaluation of an Unstable Slope Salledes, France  |
| Donovan, Daniel J     | The Concentration and Fate of Chlorine Dioxide, Chlorite, and Chlorate in Drinking Water Treatment   |
| Dwyer, Peter L        | Assessment of the Performance of Hollow Fiber Ultrafiltration Membranes in the Removal of MS2 Bacteriophage, Giardia Cysts, Cryptosporidium Oocysts and Organic Carbon |
| Ellis, Christopher W. | Exploration of Historic Liquefaction Sites in the Seacoast Regions of New Hampshire and Massachusetts  |
| Flynn, Robert H       | A Three-Dimensional Ground Water Model of the Spruce Pond Aquifer in Durham, NH  |
| Fratzel, Todd M.      | Evaluation of High Performance Concrete Slabs Including In-Situ Testing at a Bridge Deck Testing Facility  |
| Fuller, Nathan A.     | Early Post-Depositional Modification of Soluble Ionic Species and Hydrogen Peroxide in Summer Surface Snow at Summit, Greenland  |
| Katz, Robin L.        | Regression Analysis of Local Traffic Accident Patterns   |
| Mayberry, Naleen A.   | An Investigation into the Transport of 2-3 $\mu\text{-M}$ Protozoa through Sandy Aquifer Sediments   |
| Olson, Eric K         | Determination of Air Void Characteristics in Air Entrained Concrete by Sound Velocity  |
| Pratt, Keith A        | Liquid Phase Radon Removal Using Granular Activated Carbon   |
| Ropp, James D.        | The Influence of Ultraviolet Irradiation on Disinfection By-Product Formations   |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Computer Science

| Author                | Thesis Title  |
|-----------------------|---|
| Ahiska, Oktay S.      | A Texture Synthesis Toolkit for Data Visualization  |
| Chappelow, Stephen W. | Improving Stencil Communications in C*  |
| Coffin, Kerry P.      | A Class Library for Image and Signal Processing: Wavelet Transforms, Fourier Transforms, and Image Processing |
| Hepp, Ellen M         | An Investigation of Approximate Matching Algorithms Using the Stanford Graphbase                              |
| McEachern, Joseph D   | Supporting Dynamic QOS in ATM Networks  |
| Nield, Gregory S.     | A Scientific Visualization Expert   |
| Reusch, David B.      | Browser: A Visualization Tool for Multivariate, Multisource, Nonlinear Time Series Data                       |
| Shekhar, Ravi         | Error Recovery and Flow Control for the Streamlined Buffer Communication Protocol                             |

#### Counseling

| Author                    | Thesis Title  |
|---------------------------|---|
| Bernier, Erika J.         | Analysis of Relationship between Degree of Gender Role Socialization and Adjustment to Bereavement  |
| Chandler, Kimberly Varney | Parental Bereavement Levels of Grief as Affected by Gender Issues   |
| Cook, Steven J.           | Promoting Better Outcomes for Black Students in Predominantly White Colleges and Universities   |
| Hammond, Jennifer Hindman | Commitment to Intimate Relationships in College Students of Divorced and Married Parents  |
| McLean-Helm, Erica M.     | Adolescent Self-Esteem, Stress, and Substance Abuse in Relation to Siblings of People with Developmental Disabilities: A Model for a Structured Support Group                                 |
| Richards, Sarah Sampson   | Reclaiming Wild Sister An Exploration of Anorexia Nervosa as a Separation from Self   |
| Rosenbergen, Sherylann    | The Differential Effects of Parental Divorce on Children: Fear of Intimacy, Length of Relationships and Desire to Marry   |
| Tognetti, Mary J.         | The Use of Organizational Behavior, Management, Techniques and Psychotherapeutic Techniques to Resolve Conflicts between Clinical and Administrative Staff in Community Mental Health Centers |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Earth Sciences: Geology

| Author          | Thesis Title   |
|-----------------|--|
| Tracy, Brian T. | The Hydrologic and Geomorphic Regimes of the Wildcat River, Jackson, New Hampshire |

#### Earth Sciences: Oceanography

| Author              | Thesis Title  |
|---------------------|---|
| Kozlowski, Robbin   | Chemistry of Vent Waters from 9 degrees 33.5-50.7 minutes North on the East Pacific Rise (1992) |
| Schoudel, Andrew J. | The Seasonal Variation of Nutrients in Three Maine Estuaries                                    |
| Weiss, Gregory M.   | Small-Scale Patterns of Phytoplankton Chlorophyll in a Coastal Plain Estuary                    |

#### Economics

| Author               | Thesis Title  |
|----------------------|---|
| McChesney, Ronald J. | A Regional Economic Approach to Describing Change in Gross State Product, 1964-1992 |
| Tan, Sim K.          | An Empirical Analysis of the Quantity Theory of Money for Malaysia                  |

#### Electrical Engineering

| Author             | Thesis Title   |
|--------------------|--|
| Buchika, Brant O.  | Application of CMAC Neural Networks to a Quadruped Robot Walking with a Trotting Gait  |
| Dann, Brian K.     | Front End Electronics Development for the Minute-of-Arc Resolution Gamma-Radiation Imaging Experiment (MARGIE)                       |
| Denham, Matthew D. | CMAC Based Architectures for Identification and Control  |
| Forrest, Glenn A.  | An Application of Avalanche Photodiodes; Detection of Soft X-Rays for the Cooperative Astrophysics and Technology Satellite (CATSAT) |
| Freedman, Jacob J  | Adaptive Control of Groundwater Flow Using the CMAC Neural Network   |
| Hein, Karen J.     | A Theoretical and Practical Approach to Multichip Module Design  |
| Kirk, Brian P      | Performance Monitoring from the EEG Power Spectrum with a Radial Basis Function Neural Network                                       |





## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title  |
|---------------------|---|
| Komisarek, Daniel P | The Investigation and Analysis of Liquid Crystal Switchable Kinoform Imaging Lens                             |
| Nazeer, Ahmed T.    | An ISO-Based Quality Framework to Manage Collaborative Engineering Projects at a University Design Laboratory |
| Payne, Troy C.      | A CMAC Neural Network Approach to a High Degree of Freedom Vibration Control Problem                          |
| Sanborn, William A. | A Study of Fiducial Marks and their Detection Using Correlation Techniques                                    |

#### Entomology

| Author          | Thesis Title  |
|-----------------|---|
| Baier, Tevis M. | A Revision of the Flavidus Group of the Genus Chrysops (Diptera: Tabanidae) |

#### Forestry

| Author            | Thesis Title  |
|-------------------|---|
| Magill, Alison H. | Dissolved Organic Carbon and Nitrogen Processes in Decomposing Leaf Litter as Affected by Increased Nitrogen Deposition |

#### History

| Author                  | Thesis Title   |
|-------------------------|--|
| Benoit-Vachon, Lynne E. | "A Feast of Reason and a Flow of Soul": Limington Academy, 1850-1920   |
| Brown, Jeffrey E        | On the Fringes Women's Lives and Quaker Theology in Northern New England 1700-1785   |
| Cecere, David A.        | "Amid all the Disolutions of War": the Reformulation of Northern New England Civil War Soldiers' Racial Perceptions, 1861-1865 |
| Hancock, Scott          | Conflict, Community, and Culture in Free Black Communities in the Early Republic Era   |
| Robinson-Rah, Odisea    | The Institution and the Idea of Private Property in Land in Anglo-America and the Spanish Difference                           |
| Thompson, Darryl C.     | Shaker-Originated Plant Varieties  |

#### Hydrology

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title   |
|-----------------------|--|
| Gammans, David D.     | Annual Cycle of Spontaneous Potential at Penikese Island, Buzzards Bay, Massachusetts  |
| Melloh, Rae A.        | Seasonal Hydrology and Winter Methane Dynamics in a Temperate Poor Fen   |
| Miller, Theresa A.    | The Effects of Pond Opening on Surface- and Ground-Water Dynamics and Quality, Hummock Pond, Nantucket Island, Massachusetts |
| Noble, Thomas G.      | A Computer Reconstruction of the July 1, 1905 Flashflood in Guanajuato, Guanajuato, Mexico                                   |
| Pendleton, Richard M. | Deglacial History of the Penacook Quadrangle and Holocene Evolution of the Upper Merrimack River, New Hampshire              |
| Richardson, Donald W. | A Comparison of the Pneumatic, Slug and Bail Slug Test Field Methods   |

#### Kinesiology

| Author                 | Thesis Title   |
|------------------------|--|
| Fisher, Brian S.       | Physiological Adaptations to Training: Circuit Weight Training (CWT) to Aerobic Exercise in Cardiac Rehabilitation |
| Pascarella, Celeste M. | The Effect of Efficacy Cognitions and Goals on Exercise Adherence  |

#### Mechanical Engineering

| Author         | Thesis Title   |
|----------------|--|
| Hoey, David W. | Dynamic Simulation of Four Wheel Drive, Four Wheel Steer Wheelchair                                  |
| Scott, Jon P.  | Data Acquisition and Modeling Studies to Improve Paper Mill Waste Water Treatment Lagoon Performance |

#### Microbiology

| Author               | Thesis Title  |
|----------------------|---|
| Daggett, Patricia A. | Lipopolysaccharide and Zinc Metalloprotease in the Pathogenesis of Legionella Pneumophila |
| Veno, Holly L.       | The Phagocytosis of Group B Streptococci by Murine Alveolar Macrophages                   |

#### NatRsrc:Environmental Consvrtn

| Author | Thesis Title |
|--------|--------------|
|--------|--------------|



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                    | Thesis Title   |
|---------------------------|--|
| Clothier, Elizabeth Leroy | A Geographic Information System Analysis of Potential Natural Gas Pipeline Routes in Vermont |
| Dombrosk, James W         | Assessment of Energy Consumption in New Hampshire K-12 Public School Buildings               |

#### NatRsrc:Forestry

| Author               | Thesis Title   |
|----------------------|--|
| Campbell, John L     | Processes Affecting the Acid-Base Status of Surface Waters in the Lye Brook Wilderness, Vermont                                      |
| Goodale, Christine L | Modeling Climate and Vegetation Structure to Predict Potential Forest Growth in Ireland  |
| Rice, Wanda B        | Identifying Shorefront Lands with High Land Use Conversion Potential in Northern New Hampshire Using a Geographic Information System |

#### NatRsrc:Soil Science

| Author             | Thesis Title  |
|--------------------|---|
| McKenzie, Diana M. | Quantification of Mineral Weathering by Image Analysis of Thin Sections |

#### NatRsrc:Water Resources

| Author             | Thesis Title   |
|--------------------|--|
| Ashby, Jennifer A. | Controls on Riparian Denitrification in Headwater Catchments of a Hardwood Forest in the Catskill Mountains, New York, USA |

#### Nursing

| Author                   | Thesis Title  |
|--------------------------|---|
| Hagan, Phyllis A.        | Talking with Patients about Advance Directives: Nurse Practitioner Experiences  |
| Lake, David F.           | Nurse Practitioner Attitudes and Perceptions Concerning the Preceptorship of Nurse Practitioner Students  |
| Mathews, Cynthia P.      | An Exploration of the Relationship between the Readability of Written Neonatal Care Instructions and Maternal Literacy Skills in the State of New Hampshire |
| Sabatinelli, Veronica R. | Home Symptom Regulation: Perceptions and Practices of Congestive Heart Failure Patients   |

#### Ocean Engineering

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title  |
|-----------------------|---|
| Coyne, Phillip M      | Development of a Fast Current Oil Containment Barrier                                       |
| Gace, Langley R       | Predicting Response of Submerged Aquaculture Pens to Wave Action Using Scale Models         |
| Radgowski, Jeffrey L. | Computer Model Validation of the Collision Tolerant Pile Structure                          |
| Washburn, Scott       | A Wave Generator and Wave Absorber System for the University of New Hampshire Wave/Tow Tank |

#### Physical Education

| Author          | Thesis Title  |
|-----------------|---|
| Sukhi, Holly E. | An Investigation of Parent-Coaches' Influence on Participation Motivation, the Competitive Experience, and Competitive State Anxiety in Youth Sports Participants |

#### Physics

| Author               | Thesis Title   |
|----------------------|--|
| Boykin, Dolores V.   | 12 11 Tagged Photon Measurements of C(gamma, rho 1) B 16 (gamma, rho 3) N 15 O |
| Fletcher, Sandra J.  | The Search for Celestial 2.2 MEV Neutron Capture Line                          |
| Hristakos, Likourgos | Copper Oxide Films Fabricated by Pulsed Laser Deposition                       |
| Taylor, Sara-Anne C. | Throughput Capabilities of a High Resolution Collimator                        |
| Young, Christopher A | Wavelet Based Analysis of Cosmic Gamma-Ray Burst Time Series                   |

#### Plant Biology

| Author                 | Thesis Title  |
|------------------------|---|
| Andersen, Scott E.     | Metabolism in Polyamines in Mouse ODC Transformed Cells of Carrot ( <i>Daucus Carota</i> L.)  |
| Grossman-White, Andrea | The Correlation between UV-Simulated Production of Mycosporine-Like Amino Acids and Biological/Ecological Factors in Furoid (Brown) Algae |
| Klink, Vincent P.      | Flower Ontogeny in the Dioecious Hawaiian Endemic <i>Broussaisia Arguta</i> Gaud. (Hydrangeaceae)   |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author               | Thesis Title   |
|----------------------|--|
| Pereira, Linda J.    | Ability of Marine Macro-Algae to Accumulate Heavy Metals         |
| Williams, G. E. Mary | The Flora and Vegetation of Fortress of Louisbourg Parks, Canada |

#### Psychology

| Author                 | Thesis Title   |
|------------------------|--|
| Benton, Tonya Plunkett | Infant Adrenocortical Reactivity: Associations with Infant Temperament and Maternal Responsivity |

#### Reading

| Author           | Thesis Title  |
|------------------|---|
| Allwarden, Ann F | Table Talk: Talking and Writing in a First/Second Grade Classroom |

#### Resource Administration & Mgmt

| Author          | Thesis Title  |
|-----------------|---|
| Berg, David N.  | The County Supremacy Movement in Nevada                           |
| Chase, Lorie B  | Landowner and Forester Participation in Community Decision-Making |
| Seth, William A | An Evaluation of Layered Conservation Easements                   |

#### Resource Economics

| Author             | Thesis Title  |
|--------------------|---|
| Bouvier, Rachel A. | The Impact of Landfills on Rural Residential Property Values: An Hedonic Approach |
| Chillida, Marta    | The Environment in New Hampshire's State Accounts                                 |
| Dawson, Robert D.  | New Hampshire's Land Use Change Tax and Who Really Pays it                        |

#### Sociology

| Author         | Thesis Title  |
|----------------|---|
| Lofaro, John P | "Witch Hunting" in the Post War Years of the Red Scare: An Application of Erikson's Model |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                 | Thesis Title   |
|------------------------|--|
| MacLeod, Leslie N. H.  | An Analysis of the Relationship between Social and Economic Variables and the Operating Margins of Community General Hospitals in the State of New Hampshire |
| McCarthy, Linda A.     | Community and Identity in a Gay Youth Support Group  |
| Palm, Gregory Carl     | Therapeutic Law: The Equivocation of Punishment in a Community Court   |
| Piombino, Christine A. | Management Consulting as Social Control: The Intervention of Human Relations Specialists in Organizational Life  |
| Vanwright, Sharon C.   | Social Support and Single Mothers on Public Assistance   |

#### Soil Science

| Author             | Thesis Title  |
|--------------------|---|
| Benjamin, Scott S. | Effects of Nitrogen Status on Dissolved Organic Carbon Dynamics in Forest Soils |

#### Wildlife

| Author        | Thesis Title   |
|---------------|--|
| Adams, Kip P. | Evaluation of Moose Population Monitoring Techniques and Harvest Data in New Hampshire |

#### Zoology

| Author                 | Thesis Title   |
|------------------------|--|
| Ballesteros, Eliete R. | Comparison of Morphological and Molecular Phylogeny in Marine Diatoms  |
| Bartell, Paul A        | Circadian and Tidal Organization of Locomotor and Ventilatory Behaviors in the Horseshoe Crab, <i>Limulus Polyphemus</i>                 |
| Biche, Richard A.      | Factors Affecting Asexual Reproduction in the Clonal Sea Anemone, <i>Metridium senile</i>  |
| Brown, Michael G.      | The Effects of Alewife ( <i>Alosa pseudoharengus</i> ) Planktivory on Zooplankton Community Structure                                    |
| Clark, Rachel A.       | Alternative Reproductive Strategies of the Marine Amphipod <i>Jassa Marmorata</i> : Why are Some Males All Thumbs                        |
| Evans, Everett L.      | The Effects of Sex Hormones on Brain GnRH, Steroidogenesis and Reproduction in the Adult Male Sea Lamprey, ( <i>Pteromyzon marinus</i> ) |
| Hilton, Kelly Deragon  | In Vivo and In Vitro Effects of Lamprey Gonadotropin-Releasing Hormone-III and Pituitary Hormones in the Sea Lamprey                     |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                    | Thesis Title  |
|---------------------------|---|
| Lovely, Eric C            | Coexistence of Hydroid Predators and Persistence of Prey, Tubularia Larynx and Tubularia Indivisa (Hydrozoa:Tubulariidae), in Shallow Fouling Communities |
| Milliken, Cheryl Gibeault | The Distribution and Abundance of Cancer Borealis and C. Irroratus within Several Subtidal Habitats in the Southern Gulf of Maine                         |
| van der Reijden, Erica D  | Mating Systems and Speciation in Photinus Fireflies (Coleoptera: Lampyridae)  |

### Academic Year of Graduation: Fall 1994 to Summer 1995

#### Animal & Nutritional Sciences

| Author                 | Thesis Title  |
|------------------------|---|
| Mahoney, Cassandra Ash | Tumor Growth, Metastasis and Immune Protection Induced by src Oncogene Constructs   |
| Quinlan, Pamela M      | Variation in Serum and Low-Density Lipoprotein Antioxidants during the Normal Menstrual Cycle: Comparison with Oral Contraceptive Use |

#### Biochemistry

| Author               | Thesis Title  |
|----------------------|---|
| Nelsbach, Andreas H. | Characterization of Mutations that Enhance the Activity of the CCR4 Transcriptional Activator |

#### Chemical Engineering

| Author          | Thesis Title  |
|-----------------|---|
| Gokarn, Yatin R | Deactivation of Urease in Urea Hydrolysis   |
| Zhou, Tao       | Kinetics of Soluble and Microencapsulated Enzymatic Reaction of Cholesterol and Cholesterol Ester |

#### Chemistry

| Author            | Thesis Title  |
|-------------------|---|
| Cuff, Lisa M.     | Synthetic Approaches to Novel Strained Hydrocarbons                                     |
| Milde, Siobhan P. | Effects of Methyl Pyranosides on the Dissociation of Iron (II) Diimine Ligand Complexes |

#### Civil Engineering

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                  | Thesis Title   |
|-------------------------|--|
| Crimi, Douglas          | Environmental Implications of Bottom Ash Utilization in Asphalt Pavement   |
| Domingo, David S.       | The Speciation of Elements in Municipal Solid Waste Combustion Bottom Ash and its Solidified/Stabilized Product                |
| Douglas, Ellen Ott      | The Transport and Fate of Nitrogen at a Farm and Yard Waste Composting Facility  |
| Heil, Matthew P.        | Unsaturated Soil Hydraulic Variability: In-Situ Implications of Secondary Sludge Land Application on the Vadose Zone           |
| King, Warner N.         | Chemical Speciation and Leaching Behavior for Elements in Separated Municipal Solid Waste Incineration Residues                |
| Klevens, Cynthia M.     | Natural Organic Matter Characterization and Treatability by Biologically Activated Carbon Filtration of Croton Reservoir Water |
| Koehler, Christopher M. | Element Speciation and Leaching Behavior in Municipal Solid Waste Fractions  |
| Leadbetter, Robert B.   | Computerized Analysis of Self-Boring Pressuremeter Tests in Soft Clay  |
| Murray, Robert F.       | Piezocone Exploration of the Marine Clay Deposit at Pease Air Force Base, New Hampshire  |
| Risser, Tamara M        | A Comparison of Organic Disinfection By-Products Formed by Drinking Water Disinfection with Chlorine and Chlorine Dioxide      |
| Shaw, Jeffrey P.        | The Effects of Ultraviolet (UV) Irradiation on Organic Matter in Natural Waters  |
| Ward, Timothy J.        | Relationship Between Probability Distributions of Monthly Ground Water Levels and Monthly Precipitation                        |
| Wright, Shamin Hasan    | The Environmental Impact of Grate Ash Utilization as an Aggregate Substitute in Pavement                                       |

#### Computer Science

| Author                   | Thesis Title  |
|--------------------------|---|
| Aggarwal, Ranjan         | Fluid Flow Visualization  |
| Batra, Sanjay            | Supporting Data-Parallel Files  |
| Chandranmenon, Girish P. | Providing an Execution Environment for C* Programs on a Mach Based PC Cluster |
| Chauhan, Rohit           | Simulation of ATM Networks  |
| Dame, Barry              | The Flexvis Scientific Visualization System                                   |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                   | Thesis Title   |
|--------------------------|--|
| Karki, Mukesh            | Dedicated Buffers for Fast Data Transfer   |
| LaRosa, Jon A.           | A Dedicated Network and Streamlined Communications Protocol to Support UNH C* Programs Running in Distributed Environments |
| Natarajan, Subramania B. | A Lattice Oriented Data Model for Scientific Visualization   |
| Sperl, Kevin J           | A Method for Implementing Access Control Lists in UNIX   |
| Varadarajan, Rajesh      | Graphical Router Analyzing System (GRASS)  |
| Wagner, Thomas A         | A Model and a System for Data-Parallel Visualization and Animation   |
| Zhang, Zhaohui           | OSPF over Demand Circuits  |

#### Counseling

| Author                | Thesis Title   |
|-----------------------|--|
| Barclay, Elizabeth T. | Anxiety Differences according to Birth Order, Gender, and Family Variables   |
| Simard, Cheryl A      | An Autobiographical Investigation into the Process of Personality Integration in a Case Study of Multiple Personality Disorder |

#### Earth Sciences

| Author                      | Thesis Title  |
|-----------------------------|---|
| Carroll, Paul R.            | Carbon Cycling in a New Hampshire Fen   |
| Crawford, Laurel Buttermore | <sup>210</sup> Pb/ <sup>210</sup> Pb Systematics of Hydrothermal Fluids and Sulfide Deposits from the East Pacific Rise Crest, 9 degrees 17 minutes N to 9 degrees 54 minutes N |
| Moosavi, Sadredin C         | Controls on Methane Flux from an Alaskan Boreal Wetland   |
| Murray, Georgia L.          | The Effects of Acid Deposition on Sulfate Reduction and Methane Production in Peatlands   |
| O'Brien, Suzanne R.         | Holocene Climate Change in the Mid-to-High Northern Latitudes: Interpretations from a Greenland Ice Core  |
| Oosting, Saskia E.          | Fluoride, Chloride and Bromide in Hydrothermal Fluids from the 9-10 degree North, East Pacific Rise and Lucky Strike, Mid-Atlantic Ridge  |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Earth Sciences: Oceanography

| Author            | Thesis Title   |
|-------------------|--|
| Wallinga, John P. | On the Internal Semidiurnal Tide in Stellwagen Basin |

#### Electrical Engineering

| Author                 | Thesis Title   |
|------------------------|--|
| Davis, Robert K.       | A VLSI Implementation of a Discrete Multiple Column Configurable Correlator  |
| Gillespie, Bradford W. | Spectral Analysis of Meteor Wind Data  |
| Hu, George B.          | Exploration of Smooth, Energy-Efficient Gaits for a Simulated Biped Walking Robot                                      |
| Hughes, Mark A.        | A Fiber Optic Chemical Sensor  |
| Hughes, Susan Anagnost | Approximate Non-Linear Optimal Control Using CMAC Neural Networks  |
| Jayanti, Lalitha S.    | Measurement and Analysis of the Phalangeal and Palmar Forces of the Human Hand   |
| Kun, Andrew L.         | Design and Implementation of Hierarchical Control Hardware for a Biped Robot   |
| Liebertz, Derek G.     | Development of a Combined Estimation and Optimal Control Simulation Software Package                                   |
| McCue, Scott J.        | An Investigation into Protocols for Underwater Communication   |
| Motor, Tomasz J.       | Machine Printed Character Recognition Using Multiple CMAC Neural Networks and Polar-Log Mapping for Feature Extraction |
| Mu, Li                 | The Lateral Subtractive Inhibition Algorithm: Simulation and Application in Image Processing                           |
| Nain, Sheela Shah      | Lighting Design for Bus Stops and Bikepaths  |
| Niebel, Werner E.      | Virtual Classroom Using the Voice Collaborative Environment  |
| Scalera, Stephen M.    | Development of a Quadrupedal Robotic System Using CMAC Neural Networks   |
| Shah, Vaibhavkumar J.  | Reliable Measurement of Clock Jitter in Token Ring Local Area Networks   |
| Thomas, Gabriel M.     | Quality Assurance for Networking Products  |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Elementary Education

| Author            | Thesis Title   |
|-------------------|--|
| Pearce, Tracey L. | Modifying Student Participation through Changes in Seating Arrangement |

#### Family & Consumer Studies

| Author              | Thesis Title  |
|---------------------|---|
| Carey, Lynn Abeling | Relationships of Self-Esteem and Selected Components of the Health Belief Model on HIV and AIDS-Related Sexual Behavior |
| Popky, Alison Levy  | Children's Understanding and Attitudes about People from Other Countries  |

#### Forestry

| Author                 | Thesis Title   |
|------------------------|--|
| Bartholomay, G. Andrew | A Dendroclimatological Correlation of White Pine Radial Growth with Ozone Levels over Time at Acadia National Park   |
| Boelhower, Mary E      | Forests Forever A Comprehensive Evaluation of Conservation Easements on Working Forests in Maine, New Hampshire and Vermont  |
| Byron, Thomas M.       | Natural White Pine Regeneration in New Hampshire   |
| Cooksey, Richard A.    | Conservation Easements as a Public Good: Willingness to Pay to Protect Forest Land Benefits with Conservation Easements in the Northern Forest Lands of New Hampshire            |
| MacLeod, Robb D.       | Using a Quantitative Accuracy Assessment to Compare Various Change Detection Techniques for Eelgrass Distributions in Great Bay, New Hampshire with LANDSAT Thematic Mapper Data |
| Muir, Ronald L         | The Control of Hardwood Competition in Establishing White Pine Plantations in New Hampshire  |

#### Genetics

| Author                 | Thesis Title   |
|------------------------|--|
| Lepage, Keith T        | Effects of Major Histocompatibility (B) Complex Dosage on a T Cell Dependent Antibody In an Aneuploid Line of Chickens |
| Parham, Christi L.     | Genetic and Molecular Analysis of the Transposable Elements TC4 and TC5 in Caenorhabditis Elegans                      |
| Salvadore, Christopher | Characterization of Functional Homologs to the Yeast CAF1 Protein which Bind CCR4                                      |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### History

| Author                | Thesis Title   |
|-----------------------|--|
| Bramwell, Jane        | Irish Immigration to New England, 1714-1722: an Early Example of the Emigrant Trade        |
| Connor, Patrick       | Writing Literacy in Colonial New Hampshire, 1680-1760                                      |
| Freitas, Jose M.      | Agrarian Change in Twentieth Century Portugal and the Case of Beira Alta                   |
| Lanzendorf, Scott O.  | New Hampshire Militia Reform, 1820-1850  |
| Olson, Christine L    | Women and Social Progress: The Manchester Children's Home, 1884-1932                       |
| Roberts, Elizabeth T. | The Geographia Generalis of Bernhard Varenius  |
| Tuveson, Erik R.      | "A People of Color": A Study of Race and Racial Identification in New Hampshire, 1750-1825 |

#### Hydrology

| Author                | Thesis Title   |
|-----------------------|--|
| Ashman, Mary S.       | A Computer Model of Secondary Oil Migration to Illustrate M.K. Hubbert's Hydrodynamic Theory                             |
| Batchelder, Edwin L.  | Transient Hydrothermal Circulation at the Mid Ocean Ridge at 9 Degrees 46 Minutes Latitude, East Pacific Rise            |
| French, Stratton C.   | A Quasi-Three Dimensional Analysis of Two-Phase Flow in Phreatic Aquifers  |
| Haire, Patricia K.    | The Ability of Various Models to Describe Velocity Distributions in Arbitrarily Selected Natural Channels                |
| Kinney, David M.      | A Groundwater Model of the Valle De Arista Groundwater System, Mexico  |
| Learned, Richard B    | A Prediction Model for Peak 7-Day Runoff Volumes into the Gulf of Maine from the Androscoggin and Kennebec Rivers, Maine |
| Palaia, Kevin J.      | Relations Between Channel Geometry and Floodflow Statistics in New Hampshire and Vermont                                 |
| Putscher, Jennifer S. | Estimating Low Flows of Ungaged Basins in New Hampshire and Vermont by Regression on Concurrent Flows at Gaging Stations |
| Warr, Timothy J.      | A Comparison of Gasoline Migration Using a Sharp Interface and a Capillarity Model                                       |

#### Kinesiology



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author           | Thesis Title  |
|------------------|---|
| Davis, Robert B. | A Comparison of Knowledge of Results Scheduling: Effects on Motor Skill Acquisition and Retention in Children Ages 8-10 |

#### Mechanical Engineering

| Author            | Thesis Title   |
|-------------------|--|
| Austin, Shawn P.  | Discretization of Parametrically Defined Surfaces for NC Tool Path Generation and Simulation |
| Beishline, Eric C | Modeling and Simulation of a Twelve Slot, Three Phase Brushless DC Motor                     |
| Dolen, Melik      | Cutting Force Estimation for CNC Machine Tools by Feed Drive Current Monitoring              |
| Duggan, Peter R.  | Micro-Tensile Testing of CU Based Thin Films for the Evaluation of Strengthening Mechanisms  |
| Kirk, Daniel M    | Five-Axis Tool Positioning for CNC Sculptured Surface Machining                              |

#### Microbiology

| Author         | Thesis Title   |
|----------------|--|
| Arwa, James G. | Molecular Probes for Nitrogen-Fixing Symbionts of Pioneer Plants |

#### NatRsrc:Environmental Consvrtn

| Author               | Thesis Title  |
|----------------------|---|
| Holanda, Priscila C. | Can Sea Stars <i>Asterias vulgaris</i> and <i>Asterias forbesi</i> be Used as Indicators of Climate Change in New England |

#### NatRsrc:Soil Science

| Author              | Thesis Title  |
|---------------------|---|
| Simmons, Jeffrey S. | Environmental Factors Influencing the Atmosphere-Soil Exchange of Some Reduced Sulphur Gases in Coniferous Forest Soils |

#### NatRsrc:Water Resources

| Author           | Thesis Title  |
|------------------|---|
| Fox, Jennifer A. | An Examination of NO <sub>2</sub> -N Movement in the Cone Pond 3 Watershed in Central New Hampshire |

#### NatRsrc:Wildlife

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                 | Thesis Title  |
|------------------------|---|
| Costello, Christine A. | Songbird Response to Group Selection Harvests and Clearcuts on the White Mountain National Forest |
| Gordon, Brenda Probert | Behavioral Interactions between New England and Eastern Cottontail Rabbits                        |
| Stevens, Rachel A      | Habitat Use and Identification of Bats in the White Mountain National Forest                      |

#### Nursing

| Author             | Thesis Title   |
|--------------------|--|
| Frey, April L      | Making Sense of It All: A Description of Processing Responses by Cognitively Impaired Nursing Home Residents                                     |
| Kidder, Kathleen M | A Phenomenological Study of the Perceptions and Experiences of Self-Directed Medication Taking among Adolescents with Attention Deficit Disorder |
| Sanford, Mary M.   | A Comparison of Two Warming Methods on the Rate of Temperature Rise and Total Rewarming Time in Cardiac Surgical Patients                        |

#### Ocean Engineering

| Author             | Thesis Title  |
|--------------------|---|
| Marien, Kenneth D. | Monitoring the Environmental Forcing and Response of a Collision Tolerant Pile Structure  |
| Ware, Jonathan D.  | Investigation of Passive Acoustical Interaction of Harbor Porpoise ( <i>Phocoena phocoena</i> ) with Sink Gillnets in the Gulf of Maine |

#### Physical Education

| Author               | Thesis Title  |
|----------------------|---|
| Zimney, Elizabeth L. | An Investigation of Athlete Behaviors as a Source Competence Information for Intercollegiate Athletes |

#### Physics

| Author            | Thesis Title  |
|-------------------|---|
| Shappirio, Mark   | Study of an Isobutane Filled Multiframe Proportional Counter as a dE/dx and Position Detector |
| Suleiman, Raid M. | Comptel Measurements of Nuclear Gamma-Ray Lines in Solar Flares                               |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Plant Biology

| Author                 | Thesis Title  |
|------------------------|---|
| Cary, Timothy J.       | Effects of Soil-Incorporated Municipal Solid Waste (MSW) Compost on Crop Production: Nutrient Release and Regulated Metal Bioavailability                           |
| Doyle, Jennifer A.     | Factors Associated with Sugar Maple Seedling Distribution in the White Mountains of New Hampshire   |
| Hara-Kaonga, Bochiwe H | The Effect of Drying and Temperature on the Viability of Ascospores and Germlings of <i>Venturia Inaequalis</i> (Cke.) Wint. under Natural Environmental Conditions |

#### Political Science

| Author               | Thesis Title   |
|----------------------|--|
| Corbin, Charles D    | The Dialogic Circle of Plato's Republic  |
| Cox, Natalie C.      | Impact of Race, Class, and Gender upon the Economic Advancement of Black Women in Apartheid South Africa: The Fight Against Racial Oppression and Economic Marginalization |
| Kaplan, Kristin Poor | Portsmouth District Court Jury Trial Pilot Program: A Survey   |
| Rowell, James L      | An Examination of Konrad Lorenz's "On Aggression"  |

#### Reading

| Author            | Thesis Title  |
|-------------------|---|
| Hebert, Rebecca J | Computer-Assisted Instructional Methodology and the Teaching of Reading |

#### Resource Administration & Mgmt

| Author              | Thesis Title  |
|---------------------|---|
| Annett, Shayne P    | Development Rights Programs and Agricultural Land "An Inquiry into New Hampshire's Farms and Its Farmers" |
| Kingsley, Eric W.   | Enrollment and Eligibility in New Hampshire's Current Use Taxation Program                                |
| Krussman, Rodger G. | A Program Evaluation of the New Hampshire Natural Heritage Inventory Program                              |
| Prihartini, Arifah  | The Policy Implications of Log Export Restrictions on Some Aspects of the Forestry Sector in Indonesia    |

#### Sociology



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                 | Thesis Title   |
|------------------------|--|
| Bostrom, Esther Pank   | Human Capital Theory and Issues of Stigmatization in Programs of the Job Training and Partnership Act: An Exploratory Study                  |
| Chapin, Edward C.      | The Symbolism of Boundaries and Identity at Mass Events: An Analysis of Newspaper Accounts of the Grateful Dead Concert at Highgate, Vermont |
| Fraser, John K.        | The Social Construction of Stalking  |
| Hazlett, Tricia Wayman | Leisure Travel in the White Mountains in the Late Nineteenth Century: A Representation in Middle Class Identity                              |
| Hibbs, Nanette L.      | Alive and Kicking: Sociological Explanations of Hacky Sack   |
| Mahaffy, Kimberly A    | Managing a Lesbian Christian Identity  |
| Raman, Rajasekhar      | The Effects of Foreign Investment on Income Inequality and Quality of Life: A Cross-Cultural Analysis of Less Developed Countries            |
| Ross, Susan Marie      | Risks of Physical Abuse to Children of Spouse Abusing Parents  |
| Wolak, Janis           | Toward a Typology of Young Male Assault Victims  |

#### Wildlife

| Author          | Thesis Title  |
|-----------------|---|
| Oehler, James D | Multi-Scaled Responses of Mammalian Carnivores to Forest Fragmentation                |
| Sasse, David B. | Summer Roosting Ecology of Cavity-Dwelling Bats in the White Mountain National Forest |

#### Zoology

| Author                  | Thesis Title  |
|-------------------------|---|
| Becker, Christine J     | The Influence of Prey Availability and Habitat Structure on the Distribution of Lobsters ( <i>Homarus americanus</i> ) in the Great Bay Estuary |
| Capron, Shane A.        | Occurrence of Microcystins Produced by <i>Microcystis Aeruginosa</i> (Blue-Green Algae) and Accumulation in Zooplankton                         |
| Caudill, Christopher C. | Molecular Evidence of Population Genetic Differentiation and Sibling Species in <i>Acatia tonsa</i> (Copepoda: Calanoida)                       |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author               | Thesis Title   |
|----------------------|--|
| Chase, Susan Freitag | Characterization of the Hemolymph of the Spider <i>Araneus Cavaticus</i> : Hemocytes and Proteins        |
| Kinder, Kenneth R    | The Effect of <i>Microcystis Aeruginosa</i> on <i>Daphnia</i> Feeding Behavior and Vertical Distribution |

### Academic Year of Graduation: Fall 1993 to Summer 1994

#### Animal & Nutritional Sciences

| Author                    | Thesis Title  |
|---------------------------|---|
| Chase, Cynthia F          | Egagyn-Esterase Activity in Atherosclerosis-Susceptible White Carneau and Atherosclerosis-Resistant Show Racer Pigeon Aortas                            |
| Cieszynski, Jacqueline K. | The Role of Calcium Interlukin-1 (IL-1) Production by the MQ-NCSU Cell Line   |
| Dong, Qinye               | The Optimization of the A1 Adenosine Receptor Binding Assay and Its Characterization in in Adipocyte Plasma Membranes from Miniature Swine              |
| D.V.M., Kelley A. Penratt | The Effect of Epidermal Growth Factor and Known Regulators on Progesterone Production by Midcycle Bovine Luteal Cells in Short Term Incubation          |
| Goldberg, Matthew J       | Identification and Variation of Matrix Metalloproteinases (MMPs) and MMP Inhibitors in the Developing Bovine Corpus Luteum                              |
| Inzer, Sandra Raymond     | Iron Status Versus Performance in Female Field Hockey Players   |
| Putnam, Dana E            | Effect of Feeding YEA-SACC 1026 to Early Lactation Dairy Cows on Ruminal Fermentation and Passage of N Fractions and Amino Acids to the Small Intestine |
| Tibaduiza, Elmi C.        | Characterization of Zinc Transport Across a Bovine Pulmonary Arterial Endothelium   |

#### Chemical Engineering

| Author         | Thesis Title  |
|----------------|---|
| Berge, Mark A. | Thermal Swing Absorption Process for Oxygen Production                      |
| Li, Luting O.  | Enzyme Catalyzed Polymerization and Precipitation of Phenol from Wastewater |

#### Chemistry

| Author | Thesis Title |
|--------|--------------|
|--------|--------------|

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title  |
|--------------------|---|
| Hassen, Kenneth P. | Synthesis and Evaluation of Poly(Vinylpyridine) and Aminated Poly(Vinylbenzyl Chloride) Beads for a Fiber Optic Chemical Sensor   |
| Krus, Daniel L     | Validation of a Sequential Extraction Technique with Zinc Equilibrated Model Sediment   |
| Puk, Richard       | Determination of Hg(II), Methylmercury Cation, Dimethylmercury, and Diethylmercury by Hydride Generation, Cryogenic Trapping, Electrothermal Atomization and Atomic Absorption Spectrophotometric Detection |
| Young, Michelle A. | Studies of Some Transition Metal Complexes of N-Substituted 1,4,8,11-Tetraazacyclotetradecanes  |

#### Civil Engineering

| Author              | Thesis Title   |
|---------------------|--|
| Carter, John J      | The Development of a Seismic Module for Piezocone Work   |
| Cedarholm, David    | Dominant Soil Water Pathways on a Northern New England Forested Hillslope  |
| Flesher, Kenneth L. | A Study of the Current Methods of Converting Existing Maps to a Digital Spatial Database for a Geographical Information System (GIS)       |
| Griffiths, Evan C.  | The Effects of Water Quality on Ozone Demand and Decay Kinetics  |
| Gruden, Cynthia L.  | The Role of Protozoa in an Organically Contaminated Aquifer  |
| Keane, James C.     | Factors Affecting the Occurrence and Removal of Manganese in the University of New Hampshire/Durham, NH Water Treatment System             |
| LaBranche, David F. | Performance and Cost Analysis of Treating a Volatile Organic and Petroleum Hydrocarbon Contaminated Water by Shallowtray(TM) Air Stripping |
| Markow, Denise L.   | Acoustic Evaluation of Air-Entrained Mortar and Concrete   |
| Nerney, Scott R     | Vadose Zone Monitoring and Modeling Below a Compost Window   |
| Pass, Daniel G.     | Soil Characterization of the Deep Accelerometer Site at Treasure Island, San Francisco, California   |
| Sawyer, Stephen M.  | National Geotechnical Experimentation Sites Database   |

#### Communication Disorders



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Hatch, Elizabeth R. | A Comprehensive Validation of Facilitated Communication Using Formal and Informal Language Testing |

#### Computer Science

| Author                  | Thesis Title  |
|-------------------------|---|
| Burney, Laura Donia     | VISIX: A Graphical User Interface to the Unix Operating System            |
| Dunigan, Paula Boyle    | WordPerfect to Prototype Translator                                       |
| Mason, James R.         | Optimizing Irregular Communication in C*                                  |
| Raghavan, Rengarajan S. | Performance Evaluation of Operating Systems: Methodology and Case Studies |

#### Counseling

| Author                  | Thesis Title   |
|-------------------------|--|
| Bouchard, Michael R.    | HIV/AIDS Prevention Education on the College Campus: A Training Design Based Upon Review and Synthesis of Behavior Change Models, Learning and Counseling Theories |
| Dekraker, Lynn          | A View to the Moon Place A Conceptualization of the Experience of Bulimia Nervosa and Analysis of the Healing Process  |
| Thomas, Catherine Jones | A Study of the Emotional, Cognitive, and Behavioral Aspects of Three Grieving Children   |
| Uhe, Reinhard E.        | The Development of a Neural Network for the Classification of Borderline Personality Disorder  |

#### Early Childhood:Special Needs

| Author                   | Thesis Title  |
|--------------------------|---|
| Small-Porter, Margaret E | Family-Centered Supervision: A Model for Program Continuity in Early Intervention |

#### Earth Sciences

| Author              | Thesis Title   |
|---------------------|--|
| Drummey, Scott M.   | From Snow to Ice: A Study of the H <sub>2</sub> O <sub>2</sub> Content of Polar Snow and Ice from the Greenland and Antarctic Ice Sheets |
| Rappoli, Leonard V. | Nitrous Oxide Production in a New Hampshire Freshwater Peatland  |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title  |
|--------------------|---|
| Welch, Kathleen A. | Glaciochemical Investigations of the Newall Glacier, Southern Victoria Land, Antarctica |

#### Earth Sciences: Oceanography

| Author               | Thesis Title  |
|----------------------|---|
| Donoghue, Terence G. | Seasonal Distribution and Summer Transport of Silicate in the Gulf of Maine |

#### Electrical Engineering

| Author                   | Thesis Title  |
|--------------------------|---|
| Arehart, Kurt F.         | A CMAC-Based Cursive Handwriting Recognizer for the Windows for Pen Computing Operating Environment             |
| Arsenault, Alan N.       | The Effects of Geomagnetic Activity on Skywave Interference and the Quality of Loran-C Radio Navigation Signals |
| Bahi, David H.           | An Electromyographic System to Resolve Fatigue  |
| Chamarthi, Harish        | Decomposition of Morphological Structuring Elements and Its Application to Pipeline Image Processing            |
| Decola, Jeffry A.        | A High-Level Design Framework Illustrating Technology Migration   |
| Gordon, Lauchlan B.      | FDTD Modeling of Good Conductors  |
| Jeffords, Jason P        | Object-Oriented Testing   |
| Jia, Yanping             | Use of the Sphere Packing Lattice to Investigate the Quality of CMAC Receptive Field Placement                  |
| Kamenias, Rolandos M.    | A Windows Application Program Implementing Text and Image Compression Techniques                                |
| Nelson, John S           | Real-Time Control of a Robotic Pole Balancing System Using Complementary Neural Network and Optimal Techniques  |
| Pekalsky, Christopher J. | A Maxbus Compatible Image Compression Board   |
| Shaw, William D.         | Generalization and Fault Tolerance of Artificial Neural Networks  |
| Sunavala, Farhad P.      | ASIC Design of a Polar-Log Coordinate Remapper  |
| Wilson, Eric D.          | Brainiac: A Brain Computer Link via EEGs  |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Forestry

| Author             | Thesis Title  |
|--------------------|---|
| Coveny, Sandra E.  | Conserving Vermont's Biodiversity: Commencing the Groundwork  |
| Greczynski, Jan T. | Assessing the Impact of Air Pollution on Norway Spruce ( <i>Picea abies</i> ) Needle Anatomy and Spectral Reflectance in Western Sudety Mountains of Poland |
| Micks, Patricia    | Soil Respiration and Nitrogen Applications in Two Forest Stands: Short- and Long-Term Responses   |
| Rabon, Mark W      | Management of the Riparian Zone to Maximize Accumulation of Large Woody Debris in Streams   |
| Scribner, Wendy E  | Attitudes Toward Land Protection Policy Alternatives in the Northern Forest Lands Region  |

#### History

| Author              | Thesis Title  |
|---------------------|---|
| Bussey, Laurence T. | Community, Morality and Religion on the Isles of Shoals 1732-1773   |
| Ellis, Charlyn L.   | Agricultural Change and Development in North Hampton, New Hampshire 1880-through 1910   |
| Foley, Michael S.   | Christianity and Social Change: The Early Ministry of Roland Douglas Sawyer, 1898-1910  |
| Johnson, Allison D. | The Journal of Ruth Henshaw Bascom, 1789-1796: Issues of Community and Change in the Lives of Young Women in the Early Republic                                     |
| Richardson, Mark B. | The Virtues of Continental Soldiers with a History of Colonel Ichabod Alden's Regiment and the Seventh Massachusetts Regiment during the American Revolutionary War |
| Russell, Stephen J  | Stealing Manure from God: Peasant Communities and Soil Fertility, 1864-1892   |
| Toll, Susan L.      | Debt, Deviance, and Reform: The York Gaol 1790-1860   |

#### Hydrology

| Author             | Thesis Title  |
|--------------------|---|
| Bekele, Elise B.   | Three-Dimensional Models of Secondary Oil Migration within the Paris Basin, France  |
| Boehmler, Erick M. | An Examination for the Effects of Land-Use Modification and Temporal Rainfall Variability on Streamflow and the Hydrologic Response of the Oyster River |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author           | Thesis Title   |
|------------------|--|
| Rhea, Lee K.     | A Geostatistical Study of the Effects of Permeability Heterogeneities on Separate-Phase Petroleum Migration Using the Sharp-Interface Approach               |
| Szilagyi, Jozsef | Water-Balance Modeling in a Changing Environment: Reductions in Unconfined Aquifer Levels in the Area between the Danube and Tisza Rivers in Hungary, Europe |
| Taylor, James Z. | Effect of Variable-Density Flow on Wellhead Delineation  |
| Varner, Ruth K   | A Detailed Seismic Refraction Survey of and a Ground Water Model for the Spruce Hole Aquifer, Durham, NH   |
| Wieck, James M   | Effects of Fault Block Motion on Hydrothermal Fluid Flow within Continental Rift Basins  |

#### Mechanical Engineering

| Author                 | Thesis Title  |
|------------------------|---|
| Birkenstock, Robert F. | Design and Simulation of an Active Suspension Controller for an Electric Wheelchair                             |
| Conery, Daniel G       | Haar Wavelets as an Alternative to Square Pixel Basis Functions for Use in Computerized Tomography              |
| Croteau, Jeffrey J     | Control of a Four Wheel Drive-Steer Wheelchair  |
| Durdag, Omer K.        | Computer Generation of Feedrates and In-Process Tuning for Three Axis Milling                                   |
| Gangopadhyay, Anupam   | Evaluation of Force Control Algorithms for the End Milling Process  |
| Hemmett, Jeffrey G     | Dynamic Force Estimation and Feedrate Selection in Five Axis End Milling  |
| Kurgan, Asli           | Static and Dynamic Analyses of the Elastometer Spring Support in a Suspension System                            |
| Lapham, Gary S.        | Convective Instability of a Cylindrical Fluid Inclusion Experiencing a Horizontal Temperature Gradient          |
| Maxted, Paul V.        | Development of a Piezoelectric Film Pressure Sensor System for Measuring Beadseat Pressure of an Aircraft Wheel |
| Perault, Joseph A.     | An Interferometric Study of the Factors Influencing Plated Through Hole Reliability                             |
| Roos, Timothy M.       | Growth of Silver-Copper Thin Film Multilayers on Single Crystal NaCl and Mica by D.C. Magnetron Sputtering      |
| Ross, Virginia L.      | Design Concerns of a Four Wheel Drive-Steer Curb Climbing Electric Wheelchair                                   |

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### Master's Theses from Fall, 1990 to Present

| Author          | Thesis Title  |
|-----------------|---|
| Zhang, Yongchun | Analytical and Experimental Study of the Effects of Fracture Surface Interference on Shear Crack Growth |

#### Microbiology

| Author               | Thesis Title   |
|----------------------|--|
| Matteau, Jennifer L. | Transpositional Elements in the Yersinia: Effects of Y. pestis Fragments on the Y. pseudotuberculosis Phenotype                    |
| McCabe, Karen C.     | Evaluation of a 32P-Labeled Nucleic Acid Probe Method for the Detection of Poliovirus and Hepatitis A Virus in Great Bay Shellfish |

#### NatRsrc:Environmental Consvrtn

| Author            | Thesis Title  |
|-------------------|---|
| Sperduto, Molly B | Use of a Geographic Information System (GIS) to Predict Potential Habitat for Isotria Medeoloides (Pursh) RAF. in New Hampshire and Maine |

#### Nursing

| Author             | Thesis Title   |
|--------------------|--|
| Bedell, Marilyn K. | Designing Bone Marrow Transplant Units: Nurse Administrators' Perception of What Factors Influence Decision Making |
| Hanglin, Elaine A. | Health-Promoting Behaviors and Characteristics of Participants and Nonparticipants of a Worksite Fitness Program   |

#### Occupational Education

| Author             | Thesis Title   |
|--------------------|--|
| Pope, Barbara-Jean | An Ex Post Facto Study of Dietetic Registration Exam Scores to Determine the Impact of Route of Registration Eligibility |

#### Ocean Engineering

| Author                | Thesis Title   |
|-----------------------|--|
| Allen, Donald K       | Bathymetric and Sediment Studies of the Piscataqua River Using Chirp Sonar                         |
| Doane, Christopher W. | An Open-Channel Flume for the Study of Two-Dimensional Oil Containment Boom Models in Fast Current |
| Fredriksson, David W  | Protection of Little Bay and Great Bay from Oil Spills   |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title   |
|-------------------|--|
| Krumpe, Andrew C. | Life Cycle Analysis of a Collision Tolerant Pile Structure Using Computer Modeling Methods |
| Melton, Jeffrey S | Static and Dynamic Testing of a Collision Tolerant Pile Structure                          |
| Pavlos, John R.   | Application of a One Dimensional Pollutant Fate Model to the Great Bay Estuarine System    |

#### Physical Education

| Author             | Thesis Title   |
|--------------------|--|
| Johnston, Ronald E | Strength Training in Female Distance Runners: Impact on Running Economy and Blood Lactate Accumulation   |
| Lloyd, Kristina M. | The Role of Resistance Training in the Preservation of Lean Body Mass and Resting Metabolic Rate During Caloric Restriction for Weight Reduction |
| Lockett, David W.  | The Effects of an Adventure Education Program on the Perceived Self-Efficacy of Adolescents Who Are Developmentally Challenged                   |
| Merris, Mark       | Stimulation Effect on He-Ne Laser Energy on the Ventral Nerve Cord Motoneurons of the Crayfish via Fiber Optic Delivery                          |

#### Plant Biology

| Author               | Thesis Title   |
|----------------------|--|
| Bohne, Lorin E.      | Uptake of Regulated Metals by Food Chain Crops as Influenced by Soil Properties                                    |
| Klingebiel, Jesse W. | The Effects of Road Salt on Attached Algal Communities in Artificial Streams                                       |
| Lord, Leonard A      | Composition and Species Richness of Plant Communities on Carex Stricta Tussocks                                    |
| Zhou, Xin-Hua        | Effects of Aluminum on Polyamines, DNA Synthesis, and Inorganic Ions in Suspension Cultures of Catharanthus Roseus |

#### Political Science

| Author              | Thesis Title  |
|---------------------|---|
| Diprizio, Robert C. | Should Israel Return the Golan Heights  |
| Richards, John P.   | Case Concerning Military and Paramilitary Activities in and against Nicaragua: How and Why the United States Withdrew from the Case and the Compulsory Jurisdiction of the World Court(Nicaragua v.US )International Court of Justice,1984-86 |





## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title  |
|-------------------|---|
| Taylor, Donald P. | International Politics and Vietnamese-Cambodian Relations   |
| Winston, Amy R.   | Class, Culture and Community in the U.S. and Britain: Political Activism among Women in Crisis, 1970-1985 |

#### Psychology

| Author             | Thesis Title   |
|--------------------|--|
| Black, Katherine A | Associations Between Adolescent Attachment to Parents and Peer Interaction Behaviors |
| Hansberry, Marie T | The Roles of Association and Dissociation in the Maintenance of Global Coherence     |

#### Resource Administration & Mgmt

| Author                 | Thesis Title   |
|------------------------|--|
| Brewer, Christopher D. | The Use of Landsat Thematic Mapper and Geographic Information Systems in the Detection and Assessment of Forest Damage Occurring in the Krkonose National Park |
| Hals, Hansi K          | Possible Effects of Ozone Pollution on Eastern White Pine in Acadia National Park, Maine   |
| Palaia, Laura Gilbert  | Economic and Social Impacts of the Parker River National Wildlife Refuge and Its Piping Plover Management Program  |
| Whitcomb, Joanna L     | Public Attitudes Toward Siting Municipal Solid Waste Composting Facilities   |
| Whitten, Jerrard J.    | Reclaiming New Hampshire Oyster Beds A Public and Private Partnership  |

#### Resource Economics

| Author            | Thesis Title  |
|-------------------|---|
| Bauer, Bradley R. | Contingent Valuation of Natural Resources Goods: An Embedding Effect Analysis |

#### Secondary Education

| Author                | Thesis Title   |
|-----------------------|--|
| Nerney, Helen Simmons | A Comparison of Scientific Attitude and Achievement in Ninth Grade College Preparatory and General Level Classes |

#### Sociology

| Author | Thesis Title |
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### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title  |
|---------------------|---|
| Purdum, Cristina M. | Child Sexual Abuse: Exploring the Link of Early Abuse to Affective Disorder |

#### Soil Science

| Author            | Thesis Title  |
|-------------------|---|
| Dyche, Willard H. | An Evaluation of the Nutrient Dynamics of a Fish Protein Fertilizer |
| Kelsea, Russell J | Lithologic Continuity and Taxonic Placement of Monadnock Soils      |

#### Special Education

| Author                   | Thesis Title  |
|--------------------------|---|
| Cavalcante, Francisco S. | Institute for the Development of the Person with Disability-INDEPED: Facilitating International Alliances with Brazil |
| Cossette, Gale Stone     | Teaching Word Puzzle Solving Strategies: An Integrated Approach in an Inclusive Environment                           |

#### Wildlife

| Author               | Thesis Title  |
|----------------------|---|
| Terninko, Anne Brown | Landscape Features Influencing Predator Use of Habitat Patches in Fragmented Landscapes |

#### Zoology

| Author              | Thesis Title  |
|---------------------|---|
| Puig-Suari, Nuria   | The Effect of Shelter on the Vulnerability of Soft-Shell Lobsters ( <i>Homarus Americanus</i> ) to Predation  |
| Tolimieri, Nicholas | The Effects of Microhabitat Characteristics and Conspecific Presence on the Distribution and Abundance of Juvenile Three-Spot Damselfish, <i>Stegastes Planifrons</i> |

### Academic Year of Graduation: Fall 1992 to Summer 1993

#### Animal & Nutritional Sciences

| Author                | Thesis Title  |
|-----------------------|---|
| Breen, Christopher M. | The Effect of Insulin-Like Growth Factor 1, Platelet Derived from Growth Factor, and Luteinizing Hormone on Cell Numbers and Progesterone Production by Early Bovine Luteal Cell Cultures |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title  |
|-----------------------|---|
| Elder, Dean R         | The Effect of Exogenous Progesterone on Follicular Development, as Monitored by Ultrasonography, and Subsequent Fertility in Post-Partum Dairy Cattle |
| Judd, Jennifer E      | Mating Trials for Assessing the Fertility of Male Rats  |
| Meservey, Craig M     | Exercise and Diet Treatment of Miniature Yucatan Swine: Responsiveness of Adipose Tissue  |
| Swartz, JoAnn Toshach | The Effect of Transforming Growth Factor Alpha on Progesterone Production by Early and Midcycle Bovine Luteal Cells in Long Term Culture              |

#### Biochemistry

| Author                     | Thesis Title  |
|----------------------------|---|
| Brodeur, Scott R.          | In vivo and in vitro phosphorylation and characterization of pp56 [c-fgr] in IM-9 cells and binding and regulation of activated pp60 [c-src] by phosphorylated forms of protein tyrosine kinases using synthetic phosphopeptides modeled on |
| Tian, Jingxiang            | Localizing the Position of the Crossover in the Shbz-m4 Allele and An Investigation of R Interactions with Bz and A Genes in Germinating Seedlings  |
| Wunderlich, Michelle Mills | Genetic and Molecular Analysis of the Transposable Elements TC3 and TC5 in <i>Caenorhabditis Elegans</i>  |

#### Botany

| Author         | Thesis Title  |
|----------------|---|
| Hoven, Heidi M | Eelgrass ( <i>Zostera marina</i> L.) as a Substratum for Larval Blue Mussels ( <i>Mytilus edulis</i> L.) in Mount Desert Narrows, Maine |

#### Chemical Engineering

| Author                 | Thesis Title   |
|------------------------|--|
| Chidgopkar, Vikrant R. | Solar Photocatalytic Detoxification of Aqueous Monochlorobenzene, Dichlorobenzene and Chloroform Solutions |
| Kotha, Sampurna L.     | Bifurcation Dye Studies at Nominal Reynolds Numbers of 10, 50, and 200                                     |
| Sun, Yueyin            | Viscous Fingering in a Radial Hele-Shaw Cell   |
| Thakur, Dinesh S       | Effect of Pressure on Enzyme Stability: Soluble and Supported Catalase                                     |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Chemistry

| Author             | Thesis Title   |
|--------------------|--|
| McCabe, Douglas R. | Synthesis and Characterization of Model Aquatic Sediment Phases: Calcium Carbonates, Iron Oxides and Kaolins |

#### Civil Engineering

| Author                     | Thesis Title   |
|----------------------------|--|
| Aieta, Jennifer O          | Model Development and Verification of Particulate Removal by Downflow Roughing Filters   |
| Byatt, John P.             | Load Carrying Capacities of Cantilever Beams with FRP Grid Reinforcing   |
| Clere, Jason C.            | Sediment Transport Modeling of the Piscataqua River Navigation Channel   |
| Locandro, Ronald R.        | A Comparison of Synthetic Adsorbents and Activated Carbon in the Removal of Methyl-Tertiary-Butyl Ether from Gasoline Contaminated Groundwater |
| Marshall, Kenneth G        | Corrugated Metal Sandwich Panels   |
| Tarr, Scott M              | The Characterization of Municipal Solid Waste Combustor Bottom Ash Physical Properties and Its Use in Emulsified Asphalt Mixtures              |
| Wagler, Jennifer L.        | The Removal of Methyl Tertiary-Butyl Ether from Model Ground Water Using Ultraviolet Light Catalyzed Hydrogen Peroxide Oxidation               |
| Westersund, Catherine M.   | The Impact of Raw Water Characteristics on Roughing Filtration Design Variables  |
| Whitehead, Ingrid Pazienza | An Environmental Evaluation of Bottom Ash Substitution in Pavement Materials   |

#### Communication Disorders

| Author               | Thesis Title   |
|----------------------|--|
| Hebert, Linda L.     | Influence of Educational Placement on the Communicative Abilities of Students with Severe Disabilities                     |
| Roaman, Mark H       | Perceptions and Physiological Measurements of Speech Anxiety in People Who Stutter   |
| Totman, Karen Singer | The Role of Facilitated Communication in Enhancing the Performance of Children with Autism on a Test of Receptive Language |

#### Computer Science



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title                             |
|--------------------|--|
| Apte, Sameer J.    | FDDI Simulation Using BONEs              |
| Burns, James E     | EDUCE: An Arithmetic Word Problem Parser |
| Malcolm, Priscilla | RID, A Reasonably Intelligent Debugger   |
| Sureshkumar, K.    | Implementing the POSIX.1 Interface       |

#### Counseling

| Author                  | Thesis Title  |
|-------------------------|---|
| Bradford, Irene E       | A View of Eating Disorders in Women from a Jungian Analytical Perspective   |
| Goodson, Jody Lapointe  | HIV Disease and Gay Identity: Psychoneuroimmunological Implications and Therapeutic Interventions   |
| Grisanzio, William R.   | Educational and Therapeutic Model to Prepare Adjudicated Youth and their Families for the Court Process and Involuntary Rehabilitation Services |
| McLaughlin, Dani M.     | Quality of Attachment: Formation of Behaviors and Attitudes towards Intimate Relationships in Young Women                                       |
| St. Jacques, Deborah M. | A Survey of the Current Roles of Correctional Counselors at New England State Prison Facilities   |

#### Earth Sciences

| Author           | Thesis Title  |
|------------------|---|
| Becker, Susan M. | The Seasonal Distribution of Nutrients in Massachusetts and Cape Cod Bays |
| Czepiel, Peter M | Methane Emissions from Urban Systems: A Model and Field Investigation     |

#### Economics

| Author           | Thesis Title                           |
|------------------|--|
| Bergeron, Janine | Empirical Examination of Markov Chains |

#### Electrical Engineering

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author               | Thesis Title   |
|----------------------|--|
| Carrara, Dario A.    | Three Techniques for Improving Operational Fault Tolerance in Multi-Layer Perceptrons                            |
| Conklin, Heather M   | Gravity Wave Spectra Determined From Meteor Wind Radar Data  |
| Johnson, David C.    | An Non-Invasive Device for the Analysis and Measurement of the Characteristics of Physical Manual Dexterity      |
| Kenyon, Peter S.     | Matrix Inversion Using the CMAC Neural Network, With Applications in Parameter Identification and System Control |
| Komisarek, Kenneth S | A Method of Moments, Unshielded, Twisted-Pair Transmission Line Model  |
| Major, Kevin M       | Design of an Optical Inspection System for Detecting Bent Backplane Pins in a Circuit Pack Card Cage             |
| Wilcox, Pamela A.    | An Analog VLSI Implementation of a Radial Basis Function Neural Network  |
| Yang, Xiaoqiong      | Experimental Parameter Studies for the CMAC Neural Network   |

#### Entomology

| Author                    | Thesis Title  |
|---------------------------|---|
| Donaldson-Fortier, Gay M. | Oribatida (Acari) Associated with Three Species of Sphagnum Moss at Spruce Hole Bog, New Hampshire, USA |

#### Forestry

| Author                 | Thesis Title   |
|------------------------|--|
| Lambert, Nancy Jo      | Spectral Characterization and Classification of Forest Damage in Norway Spruce Stands in the Czech Republic Using Landsat Thematic Mapper Data |
| Madden, Peter C        | Strategies for Managing High Elevation Stands of Red Spruce ( <i>Picea rubens</i> ) Forests of Northern New England                            |
| McGovern, Kimberley S. | Detecting Gypsy Moth Foci in New Hampshire Using Satellite Imagery   |
| Salas, William A       | Comparison of Spaceborne and In Situ Microwave Measurements  |
| Sullivan, Neal H.      | Short-Term Disappearance of Foliar Litter of Three Tree Species Native to Rain Forests of Puerto Rico  |

#### History

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author           | Thesis Title  |
|------------------|---|
| Marsh, Thomas S. | A Sparrow Alone on a Housetop: Portsmouth, New Hampshire, Widows in Debt-Related Civil Suits, 1715-1770 |

#### Hydrology

| Author                     | Thesis Title   |
|----------------------------|--|
| Carrera-Deleado, Matias D. | Floodflow Frequency of Streams in Puerto Rico  |
| Catricala, Christina E.    | Chemical Characteristics of Leachate from Sandy Soils Amended with Pulp and Paper Mill Residuals                           |
| Harte, Philip T.           | Regional Ground-Water Flow in Crystalline Bedrock and Interaction with Glacial Drift in the New England Uplands            |
| Lough, John A              | Evaluation of a Spatially Distributed Thornthwaite Water Balance Model   |
| Matos, Bolivar A           | Time Series Analysis of Peak Flows, Mean Flows and Low Flows in New Hampshire and Vermont                                  |
| Nash, W. Christopher       | Spatial and Temporal Characteristics of Hydrologic and Meteorologic Dry Periods in New Hampshire                           |
| Sanchez-Azofeifa, G Arturo | Environmental Change in a Tropical Rain Forest Basin A Case Study: The Upper Reventazon Basin, Costa Rica                  |
| Toupin, Denah D.           | The Effect of Groundwater Flow Patterns in Evolving Intracratonic Sedimentary Basins on Heat Flow and Petroleum Generation |

#### Mechanical Engineering

| Author              | Thesis Title  |
|---------------------|---|
| Birckholtz, John C. | Integrating Stiff Differential Flow Equations and Modelling Stops in Pneumatic Valves                       |
| Chadwick, John T.   | Application of the Water Quality Model WASP3 for the Great Bay Estuary                                      |
| Doore, Richard J.   | A Methodology for Estimating Material Parameters for the Ramaswamy-Stouffer Constitutive Model              |
| Ersoy, Cenk         | Automatic Generation of Feedrates for Three Axis End Mill Process Planning                                  |
| McDonald, Sean P    | Computer Aided Oil Spill Response Model for the Great Bay and Piscataqua River                              |
| Peters, Kevin M.    | Two-Dimensional Finite-Element Analysis for an AC Synchronous Canstack Timing Motor                         |
| Quimby, Howard M    | Finite Element Modeling of Metal-Matrix Composites and Interface Damage Using a Unified Constitutive Theory |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title   |
|-----------------------|--|
| Sidhu, Ravisher Singh | Real-Time Holographic Interferometry of a Vibrating Object Using Sinusoidal Phase Modulation |

#### Microbiology

| Author                        | Thesis Title   |
|-------------------------------|--|
| Eberhardt-Bartlett, Bridget F | PCR Amplification of the Replicative Origins Associated with the Virulence Plasmids of the Three Medically Important Species of Yersinia |

#### Nursing

| Author            | Thesis Title  |
|-------------------|---|
| Barba, Marilyn A. | Nursing Administration in Selected Rural Hospitals in New Hampshire   |
| Gallant, Jane D.  | "This Is My Home, I Live Here." The Experience of Five Older Adults in the Acute Care Setting, Waiting for Nursing Home Placement |
| Keady, Susan F.   | Collaboration within Nursing: An Exploration of Working Relationships between Registered Nurses and Certified Nurse Midwives      |

#### Occupational Education

| Author                 | Thesis Title   |
|------------------------|--|
| Gibbs, Stella          | Gender Differences on Multiple-Choice Tests: The Effect of Differential Guessing Tendencies                            |
| Munro, Elizabeth Duerr | Evaluation of Healthy Dividends (A Program for Reducing Dietary Fat) in a Large General Education College-Level Course |

#### Ocean Engineering

| Author       | Thesis Title   |
|--------------|--|
| Bilgili, Ata | A Study of Bed-Load Sediment Transport in the Piscataqua River Navigation Channel, New Hampshire |

#### Physical Education

| Author           | Thesis Title                                     |
|------------------|--|
| Alosa, Denise M. | A Prospective Study of Ankle Injury Risk Factors |





## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Doherty, Kathryn L. | An Examination of Three Facilitation Styles Used in Adventure Education with Resident Assistants |

#### Physics

| Author                 | Thesis Title   |
|------------------------|--|
| Kwiatkowski, Bonnie L. | Forbush Decreases in the Cosmic Ray Intensity at High Energies |

#### Plant Biology

| Author             | Thesis Title   |
|--------------------|--|
| Fahey, Linda L.    | A Vegetation, Floristic, and Phytogeographic Analysis of Two New Hampshire Peatlands             |
| Haymes, Kenneth M. | Genome Mapping and Agrobacterium-Mediated Transformation of the Diploid Strawberry               |
| Padgett, Donald J  | A Comparison of Created and Natural Wetlands of Southeastern New Hampshire: Flora and Vegetation |

#### Plant Science

| Author               | Thesis Title  |
|----------------------|---|
| Heard, Jacqueline E. | Biological Characterization of Nodulation Mutant Lines of Chickpea ( <i>Cicer arietinum</i> )   |
| Williamson, Scott C. | Germplasm Development and Assessment in the Diploid Strawberry Species <i>Fragaria Vesca</i> L. |

#### Political Science

| Author              | Thesis Title  |
|---------------------|---|
| McDonald, Deanne A. | Educational Cooperation in the European Community: An Example of Functional Integration |

#### Psychology

| Author               | Thesis Title   |
|----------------------|--|
| Rizzella, Michelle L | The Effect of Causality in the Availability of Text Based Concepts |

#### Reading

| Author | Thesis Title |
|--------|--------------|
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## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title   |
|-----------------------|--|
| Finlay, Diane Hillier | A Metacognitive Approach to Decoding by Analogy: Case Studies of Three Low-Achieving Adolescents |

#### Resource Administration & Mgmt

| Author              | Thesis Title   |
|---------------------|--|
| Cook, Terri Emmer   | An Economic Feasibility Analysis of On-Farm Composting of Source-Separated Fruit and Vegetable Waste |
| Schriever, James R. | Using Multi-Temporal Landsat Thematic Mapper Data to Map Forest Cover-Types in New Hampshire         |

#### Resource Economics

| Author                   | Thesis Title  |
|--------------------------|---|
| Engalichev, Judith Berry | Land Use Policy and Property Taxation in the Lakes and North Country Regions of New Hampshire                           |
| Royal, Jeffrey T         | New Hampshire Aquaculture: Evaluation of the Status of the Industry and an Economic Evaluation of Regulatory Compliance |
| Yost, Peter A.           | A Feasibility Study and Cost Analysis of Recycling Construction Site Gypsum Wallboard Waste                             |

#### Secondary Education

| Author                   | Thesis Title   |
|--------------------------|--|
| Burkam, Amy S.           | The Interaction of Test Item Format and Gender with Mathematics Achievement                |
| Sanders, Bonnie R.       | The Status of the Less Commonly Taught Languages in New Hampshire Public Secondary Schools |
| Trilla, Graciela Perkuhn | A Study of Socio-Psychological Factors Influencing Second Language Acquisition             |

#### Sociology

| Author            | Thesis Title  |
|-------------------|---|
| Bennett, Terri K. | The Effect of Television News Stories on Adolescent Suicides  |
| Camacho, Teresita | Employment Status, Acculturation, and Depression among Married Hispanic American Women  |
| Dacruz, Gina M.   | Division of Household Labor among Second Generation Portuguese-American Women: Influence of Marital Happiness and Satisfaction with the Division of Household Labor |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title  |
|--------------------|---|
| Jasinski, Jana L.  | Physical Violence and Verbal Aggression in Divorcing Couples: 1891-1900                                 |
| Lauer, Sean R.     | Occupations and Environmental Concern: A Canadian Case Study  |
| Pomeroy, Judith J. | The Antecedent and Long-Term Effects of Maternal Support for Sexually Abused Girls                      |
| Schieman, Scott D. | Social Distance and Perceived Susceptibility to HIV   |
| Walsh, Margaret M. | Issues of Americanization, Ethnicity, and Religious Identity in the Boston Parochial Schools: 1920-1960 |
| Yodanis, Carrie L. | Corporal Punishment and the Fusion of Love and Violence   |

#### Soil Science

| Author            | Thesis Title   |
|-------------------|--|
| Cuomo, Michael R. | Analysis of Subjectivity in a Multiple Parameter Wetland Evaluation Method |

#### Wildlife

| Author              | Thesis Title   |
|---------------------|--|
| Barbour, Michael S. | Niche Dimensions of New England Cottontails in Relation to Habitat Patch Size                        |
| Bock, Barret A.     | Winter Activity Budgets and Food Consumption of Released White-Tailed Deer in Northern New Hampshire |
| Sherfy, Mark H.     | The Influence of Season, Temperature and Wind Speed on Sage Grouse Metabolism                        |
| Worden, Karol A.    | Winter Physiology of White-Tailed Deer: Body Composition, Feed Intake, and Metabolic Rate            |

#### Zoology

| Author                  | Thesis Title   |
|-------------------------|--|
| Chiller, David G.       | Effects of Body Size on the Intraspecific Interactions and Behavior among Larval Spotted Salamanders ( <i>Ambystoma maculatum</i> )          |
| Hartleb, Christopher F. | The Effects of a Thermocline and Light Gradients on the Feeding Behavior of Pumpkinseed Sunfish ( <i>Lepomis gibbosus</i> )                  |
| Knox, Christopher J.    | Characterization and Localization of the Gonadotropin-Releasing Hormone Receptors in the Adult Female Sea Lamprey, <i>Petromyzon marinus</i> |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                  | Thesis Title  |
|-------------------------|---|
| Runstadler, Jonathan A. | Zebrafish Homeotic Genes and the Evolution of Vertebrate Homeotic Arrays  |
| Simmons, Marc E.        | The Ecology of <i>Fundulus heteroclitus</i> in the Tidal Marshes of Great Bay, New Hampshire                                    |
| Trussell, Geoffrey C.   | Morphology and Phenotypic Plasticity in an Intertidal Snail: The Role of Wave Action, Water Velocity and a Common Crab Predator |

### Academic Year of Graduation: Fall 1991 to Summer 1992

#### Animal & Nutritional Sciences

| Author                | Thesis Title  |
|-----------------------|---|
| Carlisle, Deborah L.  | In Vitro Determination of the Hepatic Cell Type Effected by the Cyanobacterial Toxin Microcystin-LR                                   |
| Melim, Terry Thompson | The Influence of Neonatal or Prepubertal Hemicastration on the Reproductive Capacity of Mature New Zealand White Rabbits              |
| Whitehouse, Nancy Lee | Notes on Washing and Drying Fluid- Associated Mixed Rumen Microorganisms and Detaching Particle-Associated Mixed Rumen Microorganisms |

#### Biochemistry

| Author         | Thesis Title   |
|----------------|--|
| Abrams, Joan G | Pituitary Responsiveness to Perfused Lamprey GNRH and Its Analogs in the Adult Female Sea Lamprey, <i>Petromyzon marinus</i> |

#### Botany

| Author             | Thesis Title  |
|--------------------|---|
| Abrahamson, Dale S | Trichoderma Distribution in the White Mountains, New Hampshire and Interactions with <i>Armillaria Ostoyae</i>    |
| Helsel, Daniel R.  | Control of Water Milfoil ( <i>Myriophyllum heterophyllum</i> ) by Habitat Manipulation of the Sediments           |
| Sutton, Donald K.  | A Potential Role for Orchard Sanitation in the Management of Apple Scab ( <i>Venturia inaequalis</i> (CKE) Wint.) |
| Weiss, Sandra J.   | Floristics and Vegetation Analysis of a New Hampshire Salt Marsh  |

#### Chemical Engineering

| Author | Thesis Title |
|--------|--------------|
|--------|--------------|

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author          | Thesis Title  |
|-----------------|---|
| Agrawal, Deepak | Development of Expert Systems for Plastic Selection and for Capital Cost Estimation |

#### Chemistry

| Author                | Thesis Title   |
|-----------------------|--|
| Choquette, Deborah M. | Part I:Aluminum-Nitrogen Ring and Cage Compounds:Synthesis, Structure and Mechanistic Studies Part II:Titanium Alkoxide Complexes with the Chelating Ligand CIS-1,3,5-Cyclohexane- trialkoxide:Synthesis, Structure and Reactivity |
| Guptill, Paul W.      | A Study of the Extrapallial Fluid of Mytilus edulis. The Separation of a Protein Component   |
| Pan, Sizhong          | Fiber Optic pH Sensor Based on the Swelling of Aminated Polymer Beads  |
| Swartz, Stephen G.    | Photochemical Asymmetric Induction Using Chiral Templates: Synthesis of Strained Cyclic Butatrienes  |

#### Civil Engineering

| Author                | Thesis Title   |
|-----------------------|--|
| Friedman, Melinda J   | Continuous-Flow Studies of Gasoline Biodegradation in a Denitrifying Environment   |
| Morgan, Daniel F.     | Characterization of Natural Organic Matter Removal by Pre-Ozonated and Benzoate-Induced Slow Sand Filtration                   |
| Rice, Peter H.        | An Investigation of the Feasibility of Ocean Disposal of Stabilized/Solidified Municipal Solid Waste Incinerator Ash           |
| Spencer, Catherine M. | Modification of Precoat Filters with Crushed Granular Activated Carbon and Anionic Resin to Improve Organic Precursor Removals |

#### Computer Science

| Author              | Thesis Title  |
|---------------------|---|
| Clere, Charu Saxena | An Interactive Icon Editor  |
| Fisher, Terri L.    | Exploiting Natural Boundaries in the Autonomous Underwater Vehicle Domain to Limit Resource Utilization |
| Herold, Kathleen P. | A Retargetable C* Communication and Run-Time Library for Mesh-Connected MIMD Multicomputers             |
| Hubbe, Paul D.      | Cross Product Representation of the Constraint Satisfaction Problem Space Search                        |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title  |
|---------------------|---|
| Jones, Robert R.    | Compiling the New C*  |
| Joy, Joseph M.      | Parallel Algorithms for Volume Rendering  |
| Lapadula, Anthony J | An Optimizing Dataparallel C Cross-Compiler for Hypercube Multicomputers          |
| Ma, Heng            | Remote Transformation and Lattice Manipulation                                    |
| Ouellette, David A. | Performance, Image Quality and Memory Considerations for Parameterized Raytracing |
| Shieh, Shuching     | Motion Perception Tools for Visualization of Multi-Dimensional Data               |

#### Counseling

| Author               | Thesis Title   |
|----------------------|--|
| Bean, Patricia H.    | Therapist Awareness of the Co-Occurrence of Deliberate Self-Harm and a Childhood History of Incest   |
| Brnger, Amy N        | An Examination of the Relationship between Self-Esteem and Motivational Factors Involved in the Decision to Enter a Graduate Program in Counseling |
| Howes, Joanne Makris | A Survey of Psychotherapists Experience of Intimacy and their Communication of Warmth and Caring in the Therapeutic Relationship                   |

#### Earth Sciences

| Author         | Thesis Title  |
|----------------|---|
| Lefer, Barry L | Enhancements of Phosphorus and Carboxylic Acids in Biomass Plumes over Canada During ABLE-3 |

#### Earth Sciences: Geology

| Author             | Thesis Title  |
|--------------------|---|
| Knight, Douglas R. | An Isotopic Study of the Lincoln Sill Southwest Coastal Maine |

#### Earth Sciences: Oceanography

| Author          | Thesis Title   |
|-----------------|--|
| Lee, Linwood L. | A Description of the Nontidal Current Variability in Massachusetts and Cape Cod Bays During Spring/Summer 1990 |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Electrical Engineering

| Author                  | Thesis Title  |
|-------------------------|---|
| Abbott, Mark A.         | A Study of Polar-Log Coordinate Mapping as a Preprocessor for Image Compression   |
| Aldrich, Christopher M. | A Head Controlled Speech Activated Mouse Emulation System   |
| Beauregard, Gerald L.   | The Impact of Physiological and Testing Variables on the Detection of Carpal Tunnel Syndrome through Vibrational Perception Threshold Testing |
| Dietz, Darryl H.        | A Neural Network Approach to the Minimum Time Control Problem   |
| Doherty, James P.       | A Characterization of High-Frequency Noise on Installed Twisted-Pair Media Affecting a 10BASE-T Network                                       |
| Duckworth, Mark R.      | Boundary Scan in an Automated Design Process  |
| Eberle, Thomas D.       | Automating Bist Insertion with Boundary Scan  |
| Kerber, Galen G.        | Rapid Prototyping of Testable Systems Using FPGAS   |
| Kimball, Steven F.      | Aircraft Silhouette Identification Using a Neural Network Classifier with Scale and Rotation Invariant Features                               |
| Lamb, Chad C.           | ASSET+ A Scan-Based Diagnostic System   |
| Miller, David F.        | A Hybrid Electromagnetic Propagation Model for Calculating Adjacent-Edge Diffraction  |
| Morin, Marc A.          | Real-Time Compensation of a Nonlinear Current Sensor  |
| Norris, Gregg A.        | System Development and Control of a Six Degree-of-Freedom Biped Walking Robot   |
| Rothwell, Anne D.       | The Voltage-Current Characteristics of an AC Arc with Application to Electrosurgery   |
| Suwirjo, Janto          | A CMAC Based Hand-Eye Coordination System   |
| Wheeler, Kevin R.       | Fault Tolerant Feedforward Control Using CMAC Neural Networks   |
| Wright, Douglas E.      | Generation of VHDL Description from Implemented Designs   |
| Yang, Bing              | A VLSI Implementation of CMAC Neural Network  |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Elementary Education

| Author             | Thesis Title  |
|--------------------|---|
| Saunders, Anne     | The Need for an Assessment Test as an Effective Method for Mainstreaming the Student Who is Exceptional into the Elementary Music Classroom (K-6) |
| Thompson, Dianne L | Making a Difference in Education through Effective Computer Staff Development-A Model   |

#### Entomology

| Author           | Thesis Title   |
|------------------|--|
| Barry, Donald W. | Effect of Pretreatments with the Chitin Synthesis Inhibitors Diflubenzuron & Teflubenzuron on the Pathogenicity of <i>Beauveria bassiana</i> (deutermycotina:hyphomycetes) to Larvae of the Colorado Potato Beetle(coleoptera:chrysomelidae) |
| O'Keefe, Sean T. | A Revision of the Nearctic Genus <i>Lophioderus</i> Casey (Coleoptera: Scymaenidae)  |

#### Forestry

| Author             | Thesis Title   |
|--------------------|--|
| Chase, Warren E    | Maine Stumpage Prices: Characteristics and Trends 1963-1990                                  |
| Frament, William R | Airphoto Key to New England Hardwood Tree Species Using Large-Scale Color Aerial Photography |
| Ollinger, Scott V  | A Spatial Model of Atmospheric Deposition for the Northeastern United States                 |

#### Genetics

| Author         | Thesis Title   |
|----------------|--|
| Smith, Dirk E. | Ribosomal Evolution and Phylogeny among North American and European Spruce Species |

#### History

| Author               | Thesis Title  |
|----------------------|---|
| Esposito, Mary A     | Libro de la Cocina del Secolo XIV Images of an Upper Class Household from a Fourteenth Century Renaissance Cookbook |
| Fletcher, Bradley W. | Shakers, and Movers: The Demographic Decline of the Canterbury Church Family, 1900-40                               |
| Giffen, Sarah L.     | "Women were Giants in Those Days" The Idealization of Elizabeth Perkins Wilde Bourne                                |





## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title  |
|---------------------|---|
| Jordan, William G   | Discourse of Black Dissent in World War I   |
| Mayo, Douglas J.    | Revolutionary Prisoners of War  |
| Pearson, Sibylle G. | Theodor Heuss and German Liberalism   |
| Upton, Kirk J.      | The Loss of Trade, the Scorn of the Objects, the Slight of Friends: The Life of Jonathan Sayward, A Maine Merchant and Loyalist, Based on his Diary, 1760 to 1797 |

#### Hydrology

| Author                 | Thesis Title  |
|------------------------|---|
| Hartley, Suzanne       | Hydrologic Response to Winter Climatic Variability in New England   |
| Kingma, Christopher L. | Chemical Alteration Associated with Surface/Near-Surface Physical Processes in the Dry Snow Zone of the Greenland Ice Sheet |
| Metcalf, Michael B.    | Evaluation of Approaches to Estimate Chemical Export from Watersheds Using Concentration-Discharge Relationships            |
| Moore, Donald F        | Landfill Leachate Impacts on Fresh Water Sediments, Central New Hampshire   |
| Paquin, John R.        | The Effects of a Small New England Sand and Gravel Mine on Groundwater Resources  |

#### Mechanical Engineering

| Author                 | Thesis Title  |
|------------------------|---|
| Bedford, Frederick C.  | A Numerical Simulation of Surface Waves on a Viscous Fluid  |
| Edwards, William R     | An Analytical and Experimental Investigation into the Beadseat Pressure Distribution of an Aircraft Wheel |
| Kras, Krzysztof J.     | Boundary Element Analysis for Three Dimensional Steady State Potential Field Problems                     |
| Lauginiger, Francis P. | General Dynamical Modeling of Fluid/Mechanical Systems and a Configurable Modeling Tool                   |
| Markey, Thomas J.      | Effects of Hull Cuts on the Circularity and Structural Integrity of a Submersible Pressure Hull           |
| Raber, Robert S.       | Electro-Optic Interferometry with Noise Tolerant Phase Unwrapping   |
| Seidenberg, Lee R.     | Surface Analysis of Nonuniform Rational B-Splines   |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

#### Microbiology

| Author            | Thesis Title   |
|-------------------|--|
| Caccavo, Frank    | Isolation and Characterization of a Fe(III)- and Mn(IV)-Reducing Micro-organism from Great Bay, New Hampshire                                |
| Hantash, Feras M. | Growth Regulation by the Stringent Response and the Catabolite Repression Systems in <i>Bacteroides fragilis</i> and <i>Escherichia coli</i> |

#### Nursing

| Author              | Thesis Title  |
|---------------------|---|
| Smith, Ellen Lavoie | The Role of Individualized and Tape Recorded Patient Educational Sessions on Retention of Chemotherapy Information in Newly Diagnosed Cancer Patients |

#### Occupational Education

| Author                 | Thesis Title  |
|------------------------|---|
| Castro, Sonia Maria V. | Locus of Control in Relation to Eating Habits Among College Students  |
| Lamrani, Lalla A.      | Assessment of the Protein Energy Status in the Area of Rabat, Morocco, Related to Middle and Lower Class Family Incomes |
| Sutton, Barbara Lloyd  | The Nutrition Background, Knowledge and Practices of High School Coaches in New Hampshire                               |

#### Ocean Engineering

| Author                | Thesis Title  |
|-----------------------|---|
| Bailey, Stephen N.    | Oil Spill Protection for New Hampshire Beaches  |
| Golas, Christopher E. | Evaluation of Commercially Available Forward-Looking Sonar Systems for Mission Specific Use on Autonomous Underwater Vehicles               |
| Mather, Jeffrey M.    | A Simple and Low-Cost Optical Scattering Sensor for Monitoring Dredge Disposal Sites  |
| Ressel, David C.      | Collision Testing of a 1/10th Scale Model Collision Tolerant Pile Structure   |
| Vicedomine, James     | Investigation of the Acoustic Interaction between Harbor Porpoise ( <i>Phocoena phocoena</i> ) and Gulf of Maine Commercial Gillnet Fishing |

#### Physical Education

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title  |
|-----------------------|---|
| Greaney, Elizabeth J. | Cross-Training and its Effect on VO2 Max  |
| Smith, Samuel W.      | Physiological Responses to Supine, Recumbent, and Upright Cycle Exercise in Patients with Coronary Artery Disease |
| Sullivan, Caroline M. | Cross-Sectional Examination of Gender and Sport Involvement on Goal Perspective Behavior                          |

#### Plant Biology

| Author          | Thesis Title   |
|-----------------|--|
| Kaldy, James E. | Plant Community Response to the Simulated Eutrophication of Eelgrass ( <i>Zostera marina</i> L.) Beds Using Experimental Mesocosms |

#### Plant Science

| Author          | Thesis Title   |
|-----------------|--|
| Greene, Ann E.  | Tissue Culture and Genetic Transformation Systems for <i>Fragaria Vesca</i>                      |
| Lauten, Gary N. | Physiological and Spectral Analysis of the Effects of Sodium Chloride on <i>Syringa Vulgaris</i> |

#### Political Science

| Author                | Thesis Title  |
|-----------------------|---|
| Cloutier, Michelle A. | European Community Environmental Law: Process and Policy                                    |
| Harris, Paul G.       | International Cooperation for Environmental Security: The Case of the Global Warming Regime |
| Jordan, John J.       | Interpretations of Rousseau's Philosophy of International Relations                         |
| Lake, Sharon L.       | The United Nations System and the United Nations COntention on the Rights of the Child      |

#### Psychology

| Author                | Thesis Title   |
|-----------------------|--|
| Hakala, Christopher M | The Effects of Inconsistent Information on Memory for Text |

#### Resource Administration & Mgmt

| Author | Thesis Title |
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|--------|--------------|



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title  |
|--------------------|---|
| Bailey, E. Russell | Distribution of Road Revenue and Appropriations in New Hampshire        |
| Myers, Sean D.     | Recycling Norms and Behavior: A Causal and Logistic Regression Analysis |

#### Resource Economics

| Author             | Thesis Title  |
|--------------------|---|
| Miller, Jeffrey D. | Willingness to Pay for a State Gypsy Moth Control Program in New Hampshire: A Contingent Valuation Case Study |

#### Secondary Education

| Author            | Thesis Title  |
|-------------------|---|
| Conti, Cynthia L. | Using Technology to Teach Technology A Study of the Integration of Technology with Curriculum |

#### Sociology

| Author            | Thesis Title  |
|-------------------|---|
| Day, Bruce P.     | The Theory of Organizational Control in Scientific Production: Patterns of Organization in Two Social Science Research Laboratories |
| Gartner, Karen L  | The Performance of Factor Analysis on Ordinal Data  |
| Hayden, Karen E   | Between Two Worlds: Laotian High School Students in a Small New England Town  |
| Jacobsen, Beth K. | Production, Distribution, and Development in Mexico   |

#### Soil Science

| Author                      | Thesis Title  |
|-----------------------------|---|
| Freeland, John A.           | Soil Genesis of the Success Series, A Typic Haplorthod with Cemented Subhorizons                |
| Langley-Turnbaugh, Samantha | Pedogenesis and Stratigraphy of Quaternary Deposits Nash Stream Area, Northern New Hampshire    |
| Strain, Mitchel R.          | Morphology and Classification of Sand and Gravel Pit Soils in the New Hampshire Seacoast Region |

#### Wildlife

| Author | Thesis Title |
|--------|--------------|
|--------|--------------|

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title   |
|-------------------|--|
| Pruss, Michael T. | Moose Impacts on Browse in New Hampshire Deer Wintering Areas      |
| Tucker, James W.  | Wildlife Use of Log Landings in the White Mountain National Forest |

#### Zoology

| Author             | Thesis Title  |
|--------------------|---|
| Campbell, Thomas A | Age and Growth of Atlantic tomcod ( <i>Microgadus tomcod</i> ) and White perch ( <i>Morone americana</i> ) in the Great Bay Estuary, New Hampshire                      |
| Ganger, Michael T  | Age and Growth of Juvenile Smelt, <i>Osmerus mordax</i> , from the Great Bay Estuary as Indicated by Daily Growth Increments of Lapilli                                 |
| Good, Thomas P     | Herring Gulls <i>Larus Argentatus</i> and Great Black-Backed Gulls <i>Larus Marinus</i> as Rocky- Shore Predators: Patterns and Implications for Intertidal Communities |
| Hawks, Wendy E.    | Do Behavioral or Life History Characteristics of the White-Footed Mouse Predict Deer Tick-Load  |

#### Academic Year of Graduation: Fall 1990 to Summer 1991

##### Animal & Nutritional Sciences

| Author                   | Thesis Title   |
|--------------------------|--|
| Banas, Todd Alan         | Effects of Dehydroepiandrosterone Administration on Atherogenic Events in Yucatan Miniature Swine  |
| Cunningham, Kelly D      | Effect of Ration Type on Amino Acid Flow to the Duodenum, Digestion, and Lactation Performance in Early Lactation Dairy Cow  |
| Gregory, Paul G.         | The Effects of Dehydroepiandrosterone on Resting Metabolic Rate and Fat Cell Metabolism in Yucatan Miniature Swine   |
| Kirkiles-Smith, Nancy C. | Investigating the Use of Yucatan Miniature Swine As a Model for Beta-Carotene Metabolism   |
| Krout, Maureen Firth     | Composition of Plasma VLDL and IDL in Miniature Pigs Exhibiting Differential Response to Dietary Cholesterol   |
| Lykos, Theodoros         | Effect of Ration on Chemical Composition of Rumi- nal Microbial Isolates and Use of Different Micro- bial Populations on Predicting Rumi- nal Digestibi- lity & Flow of Nitrogen Fractions to the Duodenum |

##### Biochemistry

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author             | Thesis Title  |
|--------------------|---|
| Audino, Deborah C  | In Vivo Phosphorylation Studies on the ADR1 Regulatory Protein in <i>Saccharomyces Cerevisiae</i>                                     |
| Hayes, David B     | Automated Analysis of Sedimentation Velocity Distribution Functions   |
| Roussel, Robert R. | Synthetic Phosphopeptides Modeled on the Carboxyl Terminus of PP60 C-SRC: Specific Antibodies, Binding and Effects on Kinase Activity |

#### Botany

| Author                | Thesis Title  |
|-----------------------|---|
| Moss, David M         | Anatomical Evidence of Stress in Needles of Red Spruce ( <i>Picea rubens</i> ) Undergoing Forest Decline in the White Mountains of New Hampshire          |
| Samuelson, Andrew Ira | Effects of Inhibitors of Polyamine and Ethylene Biosynthesis on ACC and Ethylene Production in Carrot ( <i>daucus carota</i> L.) Cell Suspension Cultures |
| Weatherbee, Pamela B. | Flora of Berkshire County, Massachusetts  |

#### Chemical Engineering

| Author             | Thesis Title   |
|--------------------|--|
| Haddock, George B. | Applications of the Catalytic and Peroxidatic Action of Catalase |

#### Chemistry

| Author              | Thesis Title   |
|---------------------|--|
| Ellis, Naja A.      | Kinetics of the Reaction of a Carbon Acid, 4-NPNM with Selected Bases in Aprotic Solvents                            |
| Habgood, Gregory J. | Preparation of Various Sulfamate Esters and N-Substituted 1, 8-Naphthosultams and their Rates of Alkaline Hydrolysis |
| Hines, Esther A     | Studies of Iron Release in Ferritin  |
| Xu, Bi              | Stoichiometry of Iron Oxidation During the Formation of Ferritin   |

#### Civil Engineering

| Author                   | Thesis Title  |
|--------------------------|---|
| Castro, Marco Aurelio H. | Real Time Landfill Leachate Generation Simulation Model |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author               | Thesis Title  |
|----------------------|---|
| Clement, Jonathan A. | Radon Removal Using Point-of-Entry Water Treatment Techniques   |
| Finn, Margaret S.    | Enumeration of Attached and Free Floating Bacteria in an Aquifer  |
| Frost, Shelley H.    | The Effect of Soluble Phosphorus on the Leachability of Lead and Other Metals in Residues from Municipal Solid Waste Incineration |
| Guay, Marcel A.      | Study of the Effects of Codisposal of Municipal Solid Waste Incinerator Bottom Ash and Wastewater Sludge on Leachate Quality      |
| Kantola, Joel Q.     | Foundation Design for the Collision Tolerant Pile Structure   |
| Kasper, John E.      | ANEX: A Facility for Comparing Analytical and Experimental Results of Structural Model Tests                                      |
| Kelley, Mark D       | The Development of Criteria and an Expert System for Siting of Solid Waste Landfills  |
| Nejame, Louis A.     | Dilatometer Testing of the Marine Clay Deposit at Pease Air Force Base, New Hampshire   |
| Zhang, Mingfu        | Force Transfer Mechanism in FRP Grids Reinforced Concrete   |

#### Computer Science

| Author              | Thesis Title   |
|---------------------|--|
| Calder, Bartley H.  | An Interactive Scientific Visualization Application Development Environment                              |
| Cawley, Margaret M. | Improvement of a Table-Driven Tree-Rewriting System Using Table Replacement and Table Compression        |
| Donovan, John L     | Code Improvement by Compiler Components Generated from High Level Specifications                         |
| Gevecker, Karl R.   | Relating the Utility of Relaxation in Constraint Satisfaction Algorithms to the Structure of the Problem |
| Huard, Suzanne M    | Debugging Erroneously Overconstrained Constraint Networks  |

#### Counseling

| Author             | Thesis Title  |
|--------------------|---|
| Blass, Virginia A. | An Etiological and Experiential Investigation and Comparison of Agoraphobia with Panic Attack: Two Case Studies and Past Research |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title   |
|-------------------|--|
| Brown, Martha M.  | Constitutional Differences in Neonates: Their Influence on Parent-Child Interactions and Implications for Counseling |
| Fifer, Tracie A.  | Reasoning, Aggression and Violence: Siblings--Their Families and Friends   |
| Onion, Anne W.    | Self-Reported Salience of Factors Involved in Creating Self-Esteem in Academically Gifted Adolescent Females         |
| Parent, Diane J.  | Meeting the Affective Needs of the Gifted Adolescent   |
| Roth, Elizabeth A | A Study of the Relationship Between Perceived Family Conflict at Family Meals and College Student Eating Disorders   |

#### Early Childhood:Special Needs

| Author                     | Thesis Title  |
|----------------------------|---|
| Seaward-Salvati, Cynthia L | Case Management in Public Schools for Preschool Age Children with Special Needs |

#### Earth Sciences

| Author           | Thesis Title  |
|------------------|---|
| Fiacco, Robert J | Microparticles as a Paleovolcanic Indicator in the 1989 GISP2 Firn and Ice Core |

#### Earth Sciences: Geology

| Author               | Thesis Title   |
|----------------------|--|
| Eichhorn, Richard J. | A Geophysical Investigation of the Nonesuch River Fault, Southeastern New Hampshire and Southwestern Maine |

#### Earth Sciences: Oceanography

| Author              | Thesis Title   |
|---------------------|--|
| Abbott, Michelle D. | Factors Controlling the Invasion of <i>Lythrum Salicaria</i> (Purple Loosestrife) in a Hydrologically Altered Salt Marsh |
| Webster, Monica J.  | Bedload Transport on an Intertidal Mudflat   |

#### Electrical Engineering

| Author        | Thesis Title  |
|---------------|---|
| Box, Brian A. | Hardware Implementation of a CMAC Neural Network Using Field Programmable Gate Arrays |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                | Thesis Title   |
|-----------------------|--|
| Fisette, Timothy P.   | Pressure Effects on Semiconductor Materials Applied to Fiber Optic Catheter Tip Blood Pressure Sensors |
| Holmes, Edward F      | Operational Fault Tolerance and Fault Recovery of a One-Dimensional CMAC Neural Network                |
| Ho, Shine             | Distributed Blackboard Control Using a Ring-Configured Communication Network                           |
| Koenig, Steven C      | Analysis of Human Functional Mobility Via the Actimeter  |
| Kohalmi, Steve        | System Level Analysis of Fault-Tolerant Processor Arrays   |
| Morrow, Jarrett D     | Quantitative Examination of External Intermodulation Product Interference                              |
| Penney, Christopher W | Validation of the Diffraction Coefficient for Finitely- Conducting, Locally Rough Surfaces             |

#### Family & Consumer Studies

| Author           | Thesis Title  |
|------------------|---|
| Knight, Suzann E | An Assessment of Attitudes and Actions Taken Toward Retirement Planning |

#### Forestry

| Author                | Thesis Title   |
|-----------------------|--|
| Chapman, Mary Hallett | Educational Needs of New Hampshire's Local Conservation Decision Makers  |
| Hallett, Richard A    | Nitrogen Mineralization in Forest Soils After Municipal Sludge Additions |

#### Genetics

| Author                | Thesis Title  |
|-----------------------|---|
| Fontaine, Susan Chick | Identification and Characterization of ADR1 Mutations that Allow Glucose-Insensitive Expression of the ADH2 Gene from <i>Saccharomyces Cerevisiae</i> |

#### History

| Author             | Thesis Title  |
|--------------------|---|
| Bourassa, Cheryl A | 'Keep Me From Obscurity': Diaries and the Search for Self |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author                 | Thesis Title   |
|------------------------|--|
| Derhak, John E.        | The Portsmouth Uprising of 1774 and the Crowd Actions at Castle William and Mary: A Case Study of a Popular Uprising in Colonial British America |
| Lord, Frances H        | Patience Boston, Indian Woman: Social Deviance, Conversion, and Redemption in Early Eighteenth Century New England                               |
| Mayo, Lydia Minchiello | A More Highly Favored Spot: African-Americans in Haverhill and Bradford, Massachusetts, 1707-1785  |
| Napier, Trevor M       | Ideology, Antipartisan Warfare, and the War of Extermination in Russia, 1941-1944  |
| Rafael, Antonio P.     | Master Builder for Portugal: The Public Life and Works of New State Minister Duarte Jose Pacheco, 1900-1943                                      |
| Yuva, Mehmet           | Cyprus: U.S. Foreign Policy and the Partition of the Island (1964-74)  |

#### Hydrology

| Author                  | Thesis Title  |
|-------------------------|---|
| Devoe, David R.         | The Influence of Sludge C:N Ratios and Loading Rates on Forest Soil Leachate Chemistry  |
| Kennedy, Kenneth A.     | Effects of Urbanization and Land Use on Hydrology in the Upper Ipswich River Basin, Massachusetts   |
| Lawlor, Stephen C       | Estimation of Low-Flows from Basin Characteristics in New Hampshire and Vermont   |
| Medalie, Laura          | Forest Land Application of Municipal Sludge: The Biotic Barrier to Nutrient Leaching  |
| Shattuck, Patricia Colt | Shallow Water-Table Response to Precipitation and Evapotranspiration in an Ephemeral Stream Valley, Woodstock, New Hampshire                                    |
| Stresky, Steven J.      | Morphology and Flow Characteristics of Pipes in a Forested New England Hillslope  |
| Waterman, Ernest R.     | A Comparison of Nutrient Fluxes in Three New England Salt Marsh Systems   |
| Williams, Allison Davis | Electrical Resistivity and Seismic Refraction Surveys of Sinkhole Locations Proposed for the Development of Storm Runoff Drains, Highway Route 129, Puerto Rico |

#### Mechanical Engineering

| Author          | Thesis Title   |
|-----------------|--|
| Davis, Ethan R. | An Implicit Method for Spectral Collocation Domain Decomposition |

## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title   |
|-------------------|--|
| Frost, Colin C    | Constitutive Modeling and Simulation of Energy Absorbing Polyurethane Foam Under Impact Loading  |
| Goodwin, Chris E  | Diversion Oil Boom Modeling and Design   |
| Johnson, Marcia B | Investigation of the Thermomechanical Response of a Metal-Matrix Composite Using a Unified Constitutive Theory and the Finite Element Method |

#### Microbiology

| Author               | Thesis Title  |
|----------------------|---|
| Albee, Edward A      | The re/A Gene and Bacterial Virulence   |
| Gavron, Tod P.       | Bacterial Binding Proteins on the Amebocyte Membrane of Limulus Polyphemus                              |
| O'Neill, Kathleen R. | Ecology and Characterization of Vibrio Vulnificus from the Great Bay Estuary of Maine and New Hampshire |

#### Nursing

| Author                  | Thesis Title  |
|-------------------------|---|
| Damianos, Francine P    | Localized Infections of Hickman-Broviac Catheter Exit Sites: The Role of the Dressing while Showering                   |
| Hoye, Maureen Teasley   | The Relationship Sex, Age, and Level of Obesity to Barriers of Successful Weight Loss                                   |
| Jordan, Brenda Latham   | Acute Confusion in the Hospitalized Elderly Postoperative Patient   |
| Kolis, Helen P.         | The Effect of Job Redesign on Nurses' Perceptions of Nursing Care Delivery, Patient Care Outcomes, and Job Satisfaction |
| Reeves, Susan G         | Professional Governance: Assessing Readiness of a Nursing Organization for Change                                       |
| Smith, Daun A.          | A Test of the Reliability of Microwave Warming of Intravenous Fluids  |
| Wilkinson, Charlotte H. | Restraint Practices on the Elderly Surgical Patient   |

#### Occupational Education

| Author            | Thesis Title  |
|-------------------|---|
| Bullock, Leslie M | A Study of Six New Hampshire Expanded Food and Nutrition Education Program Participants: Their Nutrition Knowledge Gain and Nutrition Behavior Change |



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### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title  |
|---------------------|---|
| Furuta, Lauren Ruth | Job Satisfaction of Dietitians in the State of Massachusetts  |
| McLeod, Martha S    | Perception, Use, and Understanding of Implicit Health Claims on Food Labels by Health Conscious Consumers |
| Vogt, Karyn DePalma | An Assessment of Nutrition Education in New Hampshire Public High Schools                                 |

#### Ocean Engineering

| Author             | Thesis Title  |
|--------------------|---|
| Marrone, Joseph F. | Analysis of Existing Bass Beach Salt Marsh Hydraulics and Evaluation of Proposed Improvements to Marsh Hydrology with Respect to Historic Saltwater Flows |
| Wood, Jon D        | The Field Measurement and Numerical Estimation of Cable Tension for a Lagrangian Drifter System in Real Ocean Wave Conditions                             |

#### Physical Education

| Author                    | Thesis Title  |
|---------------------------|---|
| Ames, Donna Spahn         | The Effects of Chronic Endurance Training on DHEA and DHEA-S Levels in Middle-Aged Men        |
| Dawson, Cynthia Cavanaugh | Reliability of the Nicholas Manual Muscle Tester on Upper Body Strength in Children Ages 8-10 |

#### Physics

| Author            | Thesis Title  |
|-------------------|---|
| Hewitt, Jjuji D.  | A Study of Helium: Argon: Ethane Gas Mixtures Used in Drift Chambers for Large Acceptance Spectrometers in High Magnetic Fields |
| Kippen, Richard M | Monte Carlo Simulation of the Comptel Gamma Ray Telescope   |

#### Plant Biology

| Author            | Thesis Title  |
|-------------------|---|
| Anderson, Mark G. | Population Structure of <i>Lythrum Salicaria</i> in Relation to Wetland Community Structure |

#### Political Science

| Author | Thesis Title |
|--------|--------------|
|--------|--------------|



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### Master's Theses from Fall, 1990 to Present

| Author              | Thesis Title   |
|---------------------|--|
| Freid, Richard J.   | Soviet Integration with the World Economy: The Role of Doctrine              |
| Josephson, Peter B. | Poetry and the End of Philosophy: Socrates' Treatment of the Imitative Poets |

#### Psychology

| Author       | Thesis Title               |
|--------------|----------------------------|
| Blum, Mary L | Patterns of Peer Relations |

#### Resource Administration & Mgmt

| Author         | Thesis Title   |
|----------------|--|
| Brown, Cindy M | Information Provision in Wilderness Management: An Evaluation of the Pemigewasset Wilderness Management Plan |

#### Resource Economics

| Author            | Thesis Title   |
|-------------------|--|
| Banwell, Peter S. | The Potential for Co <sub>2</sub> , So <sub>X</sub> , and No <sub>X</sub> Reductions from Electric Utilities with Energy Conservation: A Case Study of Central Maine Power |
| Stedje, Gerald D  | Bag Based Curbside Recycling: An Economic Analysis of an Alternative Recycling System  |

#### Sociology

| Author           | Thesis Title   |
|------------------|--|
| Bock, Dina       | Childhood Exposure to Violence and Adult Violence Among Criminal Offenders                                     |
| Cervi, Daniel D  | Spousal Violence and the Person-Situation Debate: A Study of Social Environmental and Personality Factors      |
| Olson, Linda J.  | Gender-Based Hegemony: How Women are Depicted in Some U.S. History High-School Textbooks Used in New Hampshire |
| White, Thomas E. | A Sociological Analysis of Selected Themes in Leo Tolstoy's Novels, Anna Karenina and Resurrection             |

#### Soil Science

| Author           | Thesis Title  |
|------------------|---|
| Bledsoe, Joyce P | Soil-Water Micromorphological Relationships in Some Sandy New Hampshire Soils |



## UNH Graduate School

### Master's Theses from Fall, 1990 to Present

| Author            | Thesis Title  |
|-------------------|---|
| Fincher, James M. | The Relationship of Soil-Site Factors to Forest Plant Communities in the Green Mountain and White Mountain National Forests |

#### Special Education

| Author              | Thesis Title   |
|---------------------|--|
| Dolcino, Cristina M | Teachers' Perceptions of the Development of Autonomy in Students |

#### Wildlife

| Author            | Thesis Title   |
|-------------------|--|
| Brewer, Donald C. | Attitudes Towards Aquatic Wildlife and Fish Resources in New Hampshire |

#### Zoology

| Author                    | Thesis Title  |
|---------------------------|---|
| Deschaschell, Marianne C. | Silk Gland Phosphatases of the Orb Weaving Spiders <i>Araneus Cavaticus</i> , <i>Argiope Aurantia</i> , and <i>Argiope Trifasciata</i>              |
| O'Bryan, Linda M.         | Changes in the Horizontal Distribution of <i>Chaoborus Punctipennis</i> : Effects of Moonlight and Fish   |
| Stubbs, David G.          | Studies on the Chemical Composition, Morphology, and Production of the Cocoon of the Black and Yellow Garden Spider <i>Argiope aurantia</i> (Lucas) |