

# UNH Graduate School

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

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

#### Animal Sciences

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



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

Author	Thesis Title
Jacques, Christopher Daniel	Impact of Silo Storage Time and Specimen Fabrication Methods on Hot Mix Asphalt Mixtures
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
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## UNH Graduate School

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

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

#### 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



## UNH Graduate School

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

Author	Thesis Title
DePasquale, Michelle Lynn	Relationship Type as a Predictor of Disclosure and Social Reactions to Disclosure of Sexual Intimate Partner Violence Victimization
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
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## UNH Graduate School

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

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

#### NatRsrc:Wildlife&Cons Biology

Author	Thesis Title
Daniels, Eleanor Q	Relating Shell Morphometrics and Heterozygosity to Bysso-genesis, 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 Landsapes 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



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

#### Plant Biology

Author	Thesis Title
Eaton, Connor Michael	Year-Round Management of High Tunnell Production Systems: Spinach and Tomato
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 (Pinus strobus)

#### Political Science

Author	Thesis Title
Majure, Britney	Corrections Corporation of America Irresponsibility and Investor Behavior
Reed, Alden Foster	Nationalists & Guerillas: How Nationalism Tranformed Warefare, 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

## UNH Graduate School

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

Author	Thesis Title
Orifici, Gregg J	Happy As I Am
Parker, Jeremy John	and when the ghost has vanished [stories]
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 Ann	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

## UNH Graduate School

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

Author	Thesis Title
Isenberg, Brianna J	Effets of Ground Flaxseed Supplementation on Animal Production and Milk Fatty Acid Profile in Organically- Certified Lactating Jerseys During the Grazing Season
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 Metholotropic 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 Lineary 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 Appliation as a Liquid Fertilizer
Collins, Joshua A	Controlling Manganese Speciation for Optimizing Removals



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Author	Thesis Title
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
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



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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
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
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Author	Thesis Title
Leonard, Sarah Elaine	The Benefits of Recreational Fishing in Adolescence
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

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

Author	Thesis Title
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
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/ 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
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## UNH Graduate School

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

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



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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



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### 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>dmt1</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 Parturition 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

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### 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

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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
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### 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
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## 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
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## 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	Understnading 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 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
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## 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
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## 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 Disorder 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
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## 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
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## 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, 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 <i>Codium Fragile</i> 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>

## 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
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## 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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### 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

## UNH Graduate School

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

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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#### 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 <i>Fragaria</i> L
Nettleton, Jeremy	Ecology, Distribution, Quantification, and Impact of Introduced, Asian <i>Porphyra yezoensis</i> F. <i>yezoensis</i> Ueda and <i>Porphyra yezoensis</i> F. <i>narawaensis</i> 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 ( <i>Ursus arctos horribilis</i> ): 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
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## 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, 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 sree 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 Southeastern 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
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## 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 Techniques 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
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## 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
Helton, Jesse J.	Type of Disability, Type of Maltreatment, and Child Protective Service Decisions Among a National Sample of Abused Children
Knox, Christy L.	Corporal Pnishment, Problem Solvins Skills, and Partner Violence



## UNH Graduate School

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

Author	Thesis Title
Morton, Beth A.	Early Dropout Predictors and the Protective Role of Social Capital and Social Bonding
Reddick, Stephanie J	The Relationship Between Adolescent Social Bonds and Delinquency: Are Attachments to Parents, Schools, and Peers Protective Factors?
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 <i>Homarus Americanus</i> with Traps
Hinderliter, Matthew G.	Seasonal Movements, Habitat Usage, Home Range, and Conservation of SPotted Turtles ( <i>Clemmys Guttata</i> ) in Southern New Hampshire
Knox, Tania T.	Male Size and Guarding Success in the Carrion Beetle <i>Necrophila Americana</i>
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 ( <i>Gadus Morhua</i> ) in and among the Western Gulf of Maine Rolling Closures as Determined through Mark and Recapture
Swasey, Jill Torregiani	Susceptibility of the Scleractian Corals, <i>Pocillopra Damicornis</i> and <i>Montipora Verrucose</i> 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 Dienes
Mathieu, Steven R.	Investigations of Persistent Carbenes
Tryder, Nancy L.	The Zinc-Mediated Chain Extension Chemistry of Amino Acid-Derived Beta-Keto Amides

## UNH Graduate School

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

Author	Thesis Title
Widlicka, Daniel W.	The Coordination Chemistry of Two Preconstrained Tricyclic Biimidazolines

#### 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, Marguerite L	Methyl Bromide Cycling in Freshwater Peatlands



## UNH Graduate School

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

Author	Thesis Title
Wilson, Adam Michael	Air Quality, Weather, and Respiratory Visits to the Emergency Room in Portland, Maine and Manchester, New Hampshire

#### Earth Sciences: Geology

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

## UNH Graduate School

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

#### Family Studies

Author	Thesis Title
Minca, Elisabeta	People's Opinions of Infant Teachers
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
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## UNH Graduate School

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

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

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



## UNH Graduate School

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

Author	Thesis Title
Speltz, Michael J	Hiking Trail Assessment Using Remote Sensing: A Pilot Study

#### NatRsrc:Forestry

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



## UNH Graduate School

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

Author	Thesis Title
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

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
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## UNH Graduate School

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

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

#### 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
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## UNH Graduate School

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

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
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
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

## UNH Graduate School

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

Author	Thesis Title
Safryn, Sandra A.	Behavioral Reaction to the Dragonfly Larvae, <i>aeshna interrupta</i> , to Two Predators and their Effect on Shared Prey
Wanat, 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.
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>
Wong, Alexander	Swimming Behavior of Four Species of <i>Daphnia</i> in Response to Temperature and <i>Microcystis</i> 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 Prewaned Holstein Calves

#### Biochemistry

Author	Thesis Title
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## UNH Graduate School

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

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

#### 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-Annelated 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



## UNH Graduate School

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

Author	Thesis Title
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
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



## UNH Graduate School

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

Author	Thesis Title
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 Paleotemperature, Paleometeorology, and Paleoecology
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



## UNH Graduate School

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

Author	Thesis Title
Noseworthy, Robert E	Physical Coding Sublayer of IEEE P802.3ab 1000BASE-T: The Standard, Simulation and Paths to Verification
Shyrokov, 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
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

## UNH Graduate School

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

Author	Thesis Title
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
Vlamiš, Ekaterini	The Effects of an Adventure Orientation Program on Incoming First Year Students

#### 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





## UNH Graduate School

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

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

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 (Plethodon cinereus) in Northern Hardwood Forests



## UNH Graduate School

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

Author	Thesis Title
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

#### 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



## UNH Graduate School

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

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
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

## UNH Graduate School

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

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
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

## UNH Graduate School

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

Author	Thesis Title
MacGregor, Ian K.	Fluorescence Optics for the Analytical Ultracentrifuge
Maftei, 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
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

# UNH Graduate School

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

### 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
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

## UNH Graduate School

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

#### 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

#### 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
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## UNH Graduate School

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

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
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 Preceived 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



## UNH Graduate School

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

#### 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
Jensen, Victoria W	The Impact of Carbon Sources on the Internalization Process of Listeria Monocytogenes to Host Cells
Myers, Anna K.	Mutagenesis Of Frankia EU1C
Nadeau, William J	Inestinal Inflammation Enhances Salmonella Typhimurium Killing by Human Neutrophils
Potvin, Joseph C.	The Effects of a 0.8kb Fragment of IS100 on Yersinia pseudotuberculosis

#### 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 (Pinus Strobus L.) From the Forest Watch Program and Needle Red Edge Inflection Point, Tropospheric Ozone, and Climate

## UNH Graduate School

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

Author	Thesis Title
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
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

## UNH Graduate School

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

Author	Thesis Title
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
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



## UNH Graduate School

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

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
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
Hidenfelter, 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

## UNH Graduate School

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

Author	Thesis Title
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
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
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## UNH Graduate School

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

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 Virto Model of the Blood-Brain Barrier

#### Biochemistry

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

## UNH Graduate School

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

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
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
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## UNH Graduate School

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

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
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





## UNH Graduate School

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

Author	Thesis Title
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
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 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

## UNH Graduate School

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

Author	Thesis Title
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
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



## UNH Graduate School

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

#### 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
Sweeney, Margaret A.	The Study of Indicator Organisms as Predictors of the Presence of Giardia Lambliia, 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 Characteriistics in Eastern White Pine Associated With Hazardous Chemical Contamination

#### NatRsrc:Water Resources

Author	Thesis Title
Bessette, Alison Bowden	Effects of Urban Runoff on the Invertebrate Communities of Natural and Created Salt Marshes in Portsmouth, New Hampshire



## UNH Graduate School

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

Author	Thesis Title
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
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



## UNH Graduate School

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

#### 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
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

## UNH Graduate School

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

Author	Thesis Title
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

#### 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 17B-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
Senseney, Heather L.	B Complex Effects on Rous Sarcoma Tumor Outcome in Line UCD 003 X Line UCD 001 Chickens

## UNH Graduate School

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

Author	Thesis Title
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?

#### 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

## UNH Graduate School

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

Author	Thesis Title
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
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
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## UNH Graduate School

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

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
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)

## UNH Graduate School

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

Author	Thesis Title
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
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
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## UNH Graduate School

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

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
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



## UNH Graduate School

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

Author	Thesis Title
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
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

## UNH Graduate School

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

#### 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
Lyons, Kathleen D.	Clinical Reasoning in Tandem with the Occupational Therapist a Case Study of the Clinical Reasoning of an Occupational Therapy Assistant
Raymond, Kerry A.	Iontophoresis and Ultrasound: A Comparison of Therapeutic Modalities as Part of a Treatment for De Quervain's Disease
Simmons, Douglas C	The Relationship Between Occupational Therapy Outcome Prediction and the Canadian Occupational Performance Measure

#### Plant Biology

Author	Thesis Title
Adams, Leslie M	The Floristic Diversity of the Experimental Watershed of the Hubbard Brook Experimental Forest New Hampshire
Gengarely, Lara M	Structure and Dynamics of Atlantic White Cedar Stands Brown Mill Pond Rye New Hampshire
Larsen, Jon A	Protoplast Production and Regeneration in Porphyra Species for Use in Genetic Engineering
Vining, Kelly J	Seed Development in Hull-Less-Seeded Pumpkin (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
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## UNH Graduate School

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

Author	Thesis Title
Garpow, Wendy J.	Sustainability Indicators Regarding Tourism Development and Coral Reef Conservation: A Case Study of Akumal, in the Mexican Caribbean

#### Resource Economics

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>
Blezard, 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?

## UNH Graduate School

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

Author	Thesis Title
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

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

## UNH Graduate School

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

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
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





## UNH Graduate School

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

Author	Thesis Title
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

#### 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

## UNH Graduate School

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

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
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

## UNH Graduate School

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

Author	Thesis Title
Wira, William R.	Optimization of a CMAC Neural Network in a Trotting Quadruped Robot

#### Elementary Education

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 Claim...": 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
Wisser, William M.	"Where Things Familiar Cease and Strange Begin": Nineteenth-Century English Language Travel Accounts of Brazil

## UNH Graduate School

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

#### Hydrology

Author	Thesis Title
Framptom, Joseph B	Channel Morphology and Suspended Sediment Transport on the Lamprey River, New Hampshire
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



## UNH Graduate School

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

#### NatRsrc:Forestry

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

## 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
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## 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 Eimeria tenella 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
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## 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	Egase Esterase Activity in Atherosclerosis-Susceptible White Carneau and Atherosclerosis-Resistant Show Racer Pigeon Aortas
Cieszynski, Jacqueline K.	The Role of Calcium Interleukin-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 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
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## 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

## UNH Graduate School

### 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 <sup>32</sup> P-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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## UNH Graduate School

### 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
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## 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 Relations
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
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## 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
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Rafael, Antonio P.	Master Builder for Portugal: The Public Life and Works of New State Minister Duarte Jose Pacheco, 1900-1943
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#### 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
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Shattuck, Patricia Colt	Shallow Water-Table Response to Precipitation and Evapotranspiration in an Ephemeral Stream Valley, Woodstock, New Hampshire
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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

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#### Microbiology

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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

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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
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Wilkinson, Charlotte H.	Restraint Practices on the Elderly Surgical Patient

#### Occupational Education

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#### Ocean Engineering

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Wood, Jon D	The Field Measurement and Numerical Estimation of Cable Tension for a Lagrangian Drifter System in Real Ocean Wave Conditions

#### Physical Education

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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

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Kippen, Richard M	Monte Carlo Simulation of the Comptel Gamma Ray Telescope

#### Plant Biology

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#### Political Science

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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

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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
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#### Wildlife

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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)