

**PhD Dissertation List**  
**Dept. of Fisheries and Wildlife**

**2017**

Abdul Razak, Shairah Binti, 2017

Major Advisor: Kim Scribner

Biotic and abiotic factors influence formation and ontogenic dynamics of molecularly defined gastro-intestinal microbial communities in Lake Sturgeon (*Acipenser fulvescens*) and Channel Catfish (*Ictalurus punctatus*)

Crosby, Andrew Donald, 2017

Major Advisor: William F. Porter

Conserving Avian Biodiversity on Managed Forest Landscapes: The Importance of Pattern and Scale

Nohner, Joel Kevin, 2017

Major Advisor: William W. Taylor

Lake habitat effects on age-o largemouth bass and the factors influencing riparian property owners' participation in shoreline conservation programs

Tingley, Ralph William III, 2017

Major Advisor: Dana Infante

Conserving streams with changing climate: A multi-scaled research framework to consider current and future condition of Hawaiian stream habitats

Vincent, Matthew T, 2017

Major Advisor: Travis O. Brenden

Simulation analyses of integrated tagging and catch-at-age analysis models and application to Lake Erie Walleye

**2016**

Armstrong, Brandon Michael, 2016

Major Advisor: Cheryl Murphy

Using Computational Models to Scale Sublethal Effects of Stressors to Adverse Population Outcomes in Fish

Colwell, Julia Marie Novak, 2016

Major Advisor: Mark Axelrod

Fishery-Dependent Stakeholders – Impacts and Responses to an Annual Closed Fishing Season in Tamil Nadu & Puducherry, India

Dechner Sierra, Andrea Carolina, 2016

Major Advisor: Brian Maurer

Ecology of a Carnivore Community in an Agricultural Landscape in Northeast Brazil

Fergus, Carol Emiko, 2016

Major Advisor: Patricia A. Soranno

Using a Landscape Limnology Framework to Examine Spatial Patterns and Processes that Influence Lake Nutrients and Productivity at Macroscales

Singh, Shikha, 2016

Major Advisor: Daniel Kramer

Investigation of Freshwater Conservation Strategies Used by Local Governments

Stevens, Bryan Scott, 2016

Major Advisor: James R. Bence, William F. Porter

Structural Uncertainty and the Management of Modern Wild Turkey Harvests

Van Vliet, Danielle Mary, 2016

Major Advisor: Mohammed Faisal Abdel-Kariem

Investigation of the Heterogeneity among *Flavobacterium Psychrophilum* Strains devastating Salmonid Stocks in the Laurentian Great Lakes Basin

## 2015

Arsnoe, Isis Mariah (Kuczaj)

Major Advisor: Jean Tsao

Variation in Blacklegged Tick *Ixodes scapularis* Questing Behavior has Implications for Human Lyme Disease Risk in the Eastern United States

Brant, Cory Olaf, 2015

Major Advisor: Weiming Li

Characterization of Sea Lamprey Pheromone Components

Buchinger, Tyler John, 2015

Major Advisor: Weiming Li

Evolution of Sea Lamprey Mating Pheromones

Herbst, Seth J., 2015

Major Advisor: Daniel Hayes

Walleye (*Sander vitreus*) Dynamics in the Inland Waterway, Michigan

Holbrook, Christopher M., 2015

Major Advisor: Michael L. Jones

Dynamics of Sea Lamprey, *Petromyzon marinus*, Spawning Migrations in Large Rivers, with Application to Population Assessment and Control in the Great Lakes

Jordan, Christopher Adam, 2015

Major Advisors: Daniel Kramer and Gerald Urquhart

The Dynamics of Wildlife and Environmental Knowledge in a Bioculturally Diverse Coupled Natural and Human System in the Caribbean Region of Nicaragua

Mabrouk, Ayman Mohamed Hassan, 2015

Major Advisor: William W. Taylor

The Role of Marine Protected Areas in Maintaining Sustainable Fisheries in the Egyptian Gulf of Aqaba, Red Sea

Meckley, Trevor Dennis, 2015

Major Advisor: Michael Wagner

The Search Behavior of Sea Lamprey during their non-homing Reproductive Migration in the Great Lakes

Myers, Jared Thomas, 2015

Major Advisor: Michael L. Jones

The Importance of the Laval Stage to Cisco Recruitment Variation in the Great Lakes

Reeb, Pablo Daniel, 2015

Major Advisor: Juan P. Steibel

Implementing Validation Procedures to Study the Properties of widely used Statistical Analysis Methods of RNA Sequencing Experiments

Walaszczyk, Erin Jean, 2015

Major Advisor: Weiming Li

Pheromone Modulation of Locomotor Rhythmicity in Adult Female Sea Lamprey

White, Jeffrey David, 2015

Major Advisor: Orlando Sarnelle

Trait and Environmental Variation Mediate the Interaction between a Harmful Phytoplankter and an Invasive Grazer

## **2014**

Bowling, Andrea Catherine, 2014

Major Advisor: William F. Porter

Landscape-Level Effects of Weather and Land Cover on Wild Turkey Abundance, Productivity, and Regional Harvest Potential in New York State

Fielder, David G., 2014

Major Advisor: James R. Bence

Advances in the Assessment of the Saginaw Bay stock of Walleyes, Lake Huron and Evaluation of Management Options

Hull, Vanessa Kristin, 2014

Major Advisor: Jianguo Liu

Giant Panda Behavior across a Coupled Human and Natural System

Jarzyna, Marta Anna, 2014

Major Advisor: William Porter

Macroecology of Breeding Birds of New York State. Influences of Climate Change, Landscape Matrix, and Spatial Scale

Knoche, Scott Daniel, 2014  
Major Advisor: Frank Lupi  
Discrete Choice Models of Hunting and Fishing in Michigan

Lute, Michelle Louise, 2014  
Major Advisor: Meredith Gore  
Influence of Morality, Identity and Risk Perception on Conservation of a Recovered Carnivore

Schulz, Carolyn Austin, 2014  
Major Advisor: Mohamed Faisal  
Factors and Pitfalls Influencing the Detection of Bacterial Kidney Disease

Simoes, Jody Christopher, 2014  
Major Advisor: Frank Lupi  
Segmenting Anglers by Lifestyles, Lake Types, and Management Preferences

Snow, Nathan Paul, 2014  
Major Advisor: William Porter  
Hotspots, Underreporting, and Dynamic Space-Time Influences of Wildlife-Vehicle Collisions

Stevens, Kara Jael, 2014  
Major Advisor: Daniel Kramer  
Social and Ecological Dynamics of Small-Scale Fisheries in the Context of Rapid Globalization

Thornbrugh, Darren Jay, 2014  
Major Advisor: Dana M. Infante  
Regional Influence of Landscape Features and Processes on Fluvial Fish Assemblages

Vandergoot, Christopher Scott, 2014  
Major Advisor: Travis Brenden  
Estimation of Regional Mortality Rates for Lake Erie Walleye *Sander vitreus* Using Spatial Tag-Recovery Modeling

## **2013**

Carter, Neil Henderson, 2013  
Major Advisor: Jianguo Liu  
Coupled Human and Natural Systems Approach to Tiger Conservation in Chitwan, Nepal and Beyond

Chang, Steven, 2013  
Major Advisor: Weiming Li  
Characterization of Two Large Gene Families in the Sea Lamprey

Hanisch-Kirkbride, Shauna, 2013  
Major Advisor: Shawn Riley  
The Human Element of Wildlife Health: Mental Models, Risk Perceptions, and Attitudes Toward Wildlife Disease Management

Henry, Emily Noelle Norton, 2013

Major Advisor: Kendra Cheruvellil

From Turtle Populations to Property Values: The Effects of Lakeshore Residential Development and the Invasive Zebra Mussel

Horst, Geoffrey, 2013

Major Advisor: Orlando Sarnelle

Ecophysiology of the Toxic Cyanobacterium *Microcystis Aeruginosa* Across Nutrient Gradients

Lynch, Abigail Julia, 2013

Major Advisor: William Taylor

Designing a Decision-Support Tool for Harvest Management of Great Lakes Lake Whitefish (*Coregonus Clupeaformis*) in a Changing Climate

Rinkus, Marisa Andrea, 2013

Major Advisor: Tracy Dobson

Rethinking Urban Storm Water Management: Identifying Stakeholder Attitudes Toward Watershed-Based Regulation and a Proposed Storm Water Retrofit in Mid-Michigan

Winters, Andrew David, 2013

Major Advisor: Mohamed Faisal

Microbial Communities and Parasites Associated with *Diporeia SPP.* (Amphipoda, Gammaridae) and their Potential Impacts on *Diporeia SPP.* Health in the Laurentian Great Lakes Basin

Yang, Wu, 2013

Major Advisor: Jianguo Liu

Ecosystem Services, Human Well-Being, and Policies in Coupled Human and Natural Systems

## **2012**

Enger, Kyle S., 2012

Major Advisor: Joan Rose

Assessing Antidiarrheal Interventions with Simulation Models

Kahl, Katherine J., 2012

Major Advisor: Kelly Millenbah

Investigating Michigan Prairie Warbler Breeding Territory Habitat Composition, Within-Territory Resource use, and Factors Influencing Occupancy

Langseth, Brian J., 2012

Major Advisor: Michael L. Jones

An Assessment of Harvest Policies for a Mixed-species Commercial Fishery in Lake Huron using a Food-web Model

Liu, Wei, 2012

Major Advisor: Jianguo (Jack) Liu

Patterns and Impacts of Tourism Development in a Coupled Human and Natural System

Miehls, Andrea L., 2012  
Major Advisor: Scott Peacor  
Preventing Predation: Evolution and Adaptive Plasticity in Morphological Defense of an Invasive Species

Montgomery, Robert A., 2012  
Major Advisors: Kelly Millenbah, Gary Roloff  
The Technology and Ecology of Wildlife Habitat Selection Research

Otto, Clint R. V., 2012  
Major Advisor: Gary Roloff  
The Impact of Timber Harvest on Wildlife Distribution Patterns and Population Vital Rates: Does structural retention ameliorate the negative effects of clearcutting?

Rudolph, Brent A., 2012  
Major Advisor: Shawn Riley  
Enforcement, Personal Gains, and Normative Factors Associated with Hunter Compliance and Cooperation with Michigan White-Tailed Deer and Bovine Tuberculosis Management Interventions

Tuan Mu, Mao-Ning, 2012  
Major Advisor: Jianguo (Jack) Liu  
Spatiotemporal Dynamics of Giant Panda Habitat: Implications for Panda Conservation under a Changing Environment

Verhoughstraete, Marc P., 2012  
Major Advisor: Joan B. Rose  
Measuring microbial water quality responses to land and climate using fecal indicator bacteria and molecular source tracking in rivers and near-shore waters of Michigan

## **2011**

Axel, Anne C., 2011  
Major Advisor: Brian Maurer  
Lemur-Environment Relationships in Altered and Unaltered Tropical Dry Forests in Southern Madagascar

Berger, Aaron M., 2011  
Major Advisor: Michael L. Jones  
Models to Aid in the Selection of Procedures used to Manage Lake Erie Walleye (*Sander vitreus*)

Goralnik, Allison K., 2011  
Major Advisor: Michael P. Nelson  
Field Philosophy: Experience, Relationships, and Environmental Ethics in Higher Education

Lamp, Nicole E., 2011  
Major Advisor: Kelly Millenbah  
Organizational Change in the U.S. Fish and Wildlife Service: Strategic Habitat Conservation (SHC) as the next Conservation Approach

Linden, Daniel W., 2011  
Major Advisor: Gary Roloff  
Impacts of Structure Retention on Avian Ecology in Managed Forests of the Pacific Northwest

Mueller, Katrina B., 2011  
Major Advisor: William W. Taylor  
Implications of Sense of Place for Recovery of Atlantic Salmon and Other Imperiled Fishes

VanLoan, Adria S., 2011  
Major Advisor: Kelly Millenbah  
The Conservation Reserve Enhancement Program (CREP) and Grassland Bird Conservation in Michigan

## **2010**

Alvarado, Angelita P., 2010  
Major Advisors: Geoffrey Habron and Shari L. Dann  
Building Capacity for Action-Oriented Environmental Education: The Role of Curriculum and Teacher Characteristics in Michigan

Chen, Xiaodong, 2010  
Major Advisor: Jianguo "Jack" Liu  
Exploring the efficiency and effectiveness of payments for ecosystem services in China's Wolong Nature Reserve

Duong, Yen T., 2010  
Major Advisor: Kim Scribner  
Effects of Spawning Behavior and Environmental Factors on Adult Reproductive Ecology and Larval Dispersal of Lake Sturgeon (*Acipenser fulvescens*)

Hamer, Sarah A., 2010  
Major Advisors: Jean I. Tsao and Graham J. Hickling  
Interactions Among Invading Ticks, Wildlife, and Zoonotic Pathogens

Li, Yu, 2010  
Major Advisor: Jianguo "Jack" Liu  
Effects of Conservation Policies and Other Driving Forces on Forest Cover Change in Panda Habitat Regions (China)

Martin, Sherry L., 2010  
Major Advisor: Daniel Hayes  
Land-use legacy effect: combining spatial and temporal drivers in statistical and mechanistic models of lake water chemistry

Reo, Nicholas J., 2010  
Major Advisor: Jianguo "Jack" Liu  
Ecological and Human Dimensions of Tribal and State Natural Resource Management