

M.S. Thesis List
Dept. of Fisheries and Wildlife

2017

Dressel, David, 2017

Major Advisor: Henry Campa, III

Development of Strategies to Orally Deliver Vaccine for Bovine Tuberculosis to White-Tailed Deer of Northeastern Lower Michigan

Fissette, Skye Daniel, 2017

Major Advisor: Weiming Li

Factors Influencing Pheromone Release by Male Sea Lamprey

Guthrie, Amanda Grace, 2017

Major Advisor: William W. Taylor

Assessing Ecosystem-based Management in the Great Lakes Basin

Jensen, Alexander James, 2017

Major Advisor: Michael Jones

Modeling the Impacts of Barrier Removal on Great Lakes Sea Lamprey

Kiulia, Nicholas Mukaria, 2017

Major Advisor: Joan B. Rose

Quantitative Detection of Rotavirus and Enterovirus in Raw Sewage using Reverse Transcription Droplet Digital PCR

Maguffee, Alexander Charles, 2017

Major Advisor: Michael Jones

Quantifying differences in otolith chemistry of Chinook Salmon in Lake Michigan to determine natal Origins

McCullough, Darrin Eugene, 2017

Major Advisor: Daniel Hayes

Selection of Zooplankton Prey by Larval Yellow Perch across Multiple Lake Systems

Melvin, Tracy Ann, 2017

Major Advisor: Gary Roloff

Prescribed Fire Effects on Eastern Box Turtles in Southwestern Michigan

Phillips, Lauren Tamara, 2017

Major Advisor: Gerald Urquhart

Modeling the effects of subsistence livelihoods on mammalian occupancy and understanding the importance of values held by Miskito Forest users for carnivore conservation in working forests

Redilla, Kyle Martin, 2017

Major Advisor: Robert Montgomery

Examining the Intrinsic and Extrinsic Dimensions of Ungulate Movement and Resource Selection

Scholze, Tomena Kay, 2017

Major Advisor: William W. Taylor

Cascading effects of Lake Erie harmful algal blooms (HABS) on zooplankton prey production, larval fish abundance, young-of-year forage fish availability, and walleye year class strength

Silet, Bradford Richard, 2017

Major Advisor: Gary Roloff

Resource Utilization and Movements of American Marten (*Martes americana*) in the Eastern Upper Peninsula, Michigan

Waraniak, Justin Michael, 2017

Major Advisor: Kim Scribner

Barcoding, Metabarcoding, and Experimental Analyses of Community Dynamics and Environmental Conditions affecting Predation of Larval Lake Sturgeon in the Black River, Michigan

2016

Byford, Gregory Joseph, 2016

Major Advisor: C. Michael Wagner

Altering the Migratory Routes of Sea Lamprey through the Application of Semichemicals

Decosta, Marissa Lynn Hammond, 2016

Major Advisor: William Taylor

Assessing the Change in Lake Whitefish (*Coregonus clupeaformis*) Maturity Schedules from 1976 – 2013 in the Upper Great Lakes

Hunt, Lindsay Elizabeth Frances, 2016

Major Advisor: Brian Maurer

Effects of Pasture Based Dairy Farming on Grassland Bird Species in Southwest Michigan

Jarvie, Erin Lindsey, 2016

Major Advisor: Heather Triezenberg

Michigan Stakeholders' Perceptions of Risk from Fish Disease (VHS) and Trust in Agency Managers: Assessment Using the Zoonotic Disease Risk Information Seeking and Processing (ZDRISP) Model and Message Testing using Gain and Loss Framing

Killion, Alexander Kyle, 2016

Major Advisor: Gary Roloff

Using Citizen Science to Develop Mast Production Indices in Michigan

Muneza, Arthur Bienvenu, 2016

Major Advisor: Robert Montgomery

Mapping the Spatial Configuration and Severity of Giraffe Skin Disease in Ruaha National Park, Tanzania

Porter, Heather Michelle, 2016
Major Advisor: Michael Jones
Resource Selection and Viability of Sharp-Tailed Grouse in the Upper Peninsula of Michigan

Schmucker, Andrew K., 2016
Major Advisor: Weiming Li
Preliminary Study of Conspecific Chemical Cueing in American Eels (*Anguilla rostrata*)

Smith, Kelley Randall, 2016
Major Advisors: Brian Roth and Michael Jones
Assessment of Risks and Consequences of Non-Native Crayfish Invasions in Michigan's Lower Peninsula

Toro Rosario, Miriam, 2016
Major Advisor: Mark Rey
Getting Closer to Public Opinion: A Descriptive and Grounded Theory Analysis of Highway Construction in Cave and Karst Systems

2015

Baird, Ashley Marie, 2015
Major Advisor: Mohamed Faisal
Risks of the Emerging Coronavirus, Fathead Minnow Nidovirus (Order: *Nidovirales*), on Representative Great Lakes Fish Species

Bauman, John Matthew, 2015
Major Advisor: Kim Scribner
Investigations of Aquaculture Methodologies to Enhance Success of Great Lakes Sturgeon Streamside Facilities

Boyer, Ryan Adam, 2015
Major Advisor: Scott Winterstein
Factors Influencing Breeding Season Survival of Female Mallards in the Great Lakes Region

Caton, Jessica Lillian, 2015
Major Advisor: Jennifer Owen
Migratory Behavior of Captive Blue-Winged Teals (*Anas discors*)

Delgado Aquije, Maria Liset, 2015
Major Advisor: Kim Scribner
Effects of Pathogenic *Escherichia Coli* and *Salmonella* on the Intestinal Microbiota of White-Tailed Deer and Cattle Sharing an Agroecosystem

DePalma-Dow, Angela Assunta, 2015
Major Advisor: Kendra Spence Cheruvellil
The Relative Roles of Dispersal and Establishment for Shaping Aquatic Macrophyte Diversity and Community Structure Among the Inland Lakes of Isle Royale National Park, Michigan USA

Goguen, Amber Danielle, 2015

Major Advisor: Shawn Riley

Sharing and Consuming Wild Harvested Meat: Providers and Receivers of Venison

Julian, Katherine Anne, 2015

Major Advisor: Jordan Burroughs

From Field to Fork: A Qualitative Investigation of Local Food Consumers' Attitudes about Membership in Community Supported Agriculture Programs and Food Cooperatives in Southern Michigan and Assessments of Eating Wild Game Meat and Hunting as a Mechanism for Sustainable Eating

Kelley, Zuriyanne Jewill, 2015

Major Advisor: Shawn Riley

Collaborative Governance as a Precursor to Sustained Participation in Antlerless Deer Hunting on the Kinzua Quality Deer Cooperative, Pennsylvania

Oguchi, Yushi, 2015

Major Advisor: Jennifer Owen

Differential Stopover Habitat Use and Its Health Consequences in Fall Migrating Landbirds

Smith, Jason Bradley, 2015

Major Advisors: Mary Tate Bremigan and Daniel Hayes

Anticipating Possible Effects of Angler Effort Levels, Winter Spearing, and Climate Change on Lake St. Clair Muskellunge: A Modeling Approach

Wengert, Samantha Lynn, 2015

Major Advisor: Joan Rose

Identification of Viral Contamination on Lettuce from the Field to Post-Harvest Processing

Youn, So-Jung, 2015

Major Advisor: William Taylor

The Importance of Inland Capture Fisheries to Global Food Security

2014

Burt, David Michael, 2014

Major Advisor: Gary Roloff

Factors Influencing Snowshoe Hare (*Lepus Americanus*) in Michigan

Flood, Matthew Thomas, 2014

Major Advisor: Joan B. Rose

A Comparative Analysis of Detection Techniques for Salmonella in Surface Water

Gray, Steven Michael, 2014

Major Advisor: Gary Roloff

Small Mammals and Forest Management in Northern California

Guzman Colon, Diana Kamil, 2014

Major Advisor: Gary Roloff

Mongoose in the Rainforest: Analyzing Population Estimates and Habitat Attributes to Support Management in El Yunque National Forest, Puerto Rico

Jay, Kathleen Joan, 2014

Major Advisor: Kim Scribner

Estimating Effective Number of Breeding Adults, Reproductive Success and Spawning Duration for White Sturgeon in the Upper Columbia River, Canada

Peschiera, Marielle, 2014

Major Advisor: William W. Taylor

Connecting People with Rivers to Improve Water Quality at Rio Grande De A Asco Watershed, Puerto Rico

Peterson, Lisa Kay, 2014

Major Advisor: Michael Jones

An Investigation of Lake Erie Yellow Perch Stock Assessment Assumptions

Schlee, Kelsey Maggan, 2014

Major Advisor: William W. Taylor

The Impact of Climate Change on Brook Trout (*Salvelinus Fontinalis*) Thermal Habitat in their Native Range in the United States

Singer, Howard Velvel, 2014

Major Advisor: Scott Winterstein

Factors Affecting Productivity and Harvest Rates of Great Lakes Mallards

2013

Colwell, Julia Marie Novak, 2013

Major Advisor: Mark Axelrod

Multi-Level Fisheries Governance and its Impact on Fishers' Adaptation Strategies in Tamil Nadu, India

Cooper, Arthur Raymond, 2013

Major Advisor: Dana Infante

Effects of Dams on Streams of the Conterminous United States: Characterizing Patterns in Habitat Fragmentation Nationally and Fluvial Fish Response in the Midwest

Cross, Tiffanie A., 2013

Major Advisor: Jennifer Owen

Ecology of the Interior Population of Double-Crested Cormorants: Prevalence of Disease and Colony Attendance

Felt, Benjamin Wayne, 2013
Major Advisor: Cheryl Murphy
The Effect of Food Ration on Growth, Reproduction and Muscle Lipid Storage in Mature Female Lake Trout from Different Populations Raised in a Common Environment

Jager, Corey Anne, 2013
Major Advisor: Michael P. Nelson
Michigan Mute Swans: A Case Study Approach to Ethical Argument Analysis

Kreuser, Jodi Marie, 2013
Major Advisor: William F. Porter
Climate Change, Range Shifts, and Differential Guild Responses of Michigan Breeding Birds

Li, Yang, 2013
Major Advisor: James Bence
The Influence of Alternative Assessment Approaches on Yield and Population Status of Intermixing Lake Whitefish Populations

Longstaff, Stephanie E., 2013
Major Advisor: Henry Campa, III
Evaluating Impacts White-Tailed Deer have on Wetland Vegetation Types with Respect to Wetland Birds at Shiawassee national Wildlife Refuge, Saginaw, Michigan

MacWilliams, Ryan Douglas, 2013
Major Advisor: Brian Roth
Limitations of Larval Walleye (*Sander Vitreus*) Production in Michigan's Inland Waterway

Melotti, Julie Rose, 2013
Major Advisor: Jean Tsao
A Survey for *Echinococcus Multiocularis* in Coyotes and Foxes in Michigan

Mitterling, Anna M., 2013
Major Advisor: Daniel Kramer
Harvest and Satisfaction Analysis of Private Land Deer Cooperatives in Southern Lower Michigan

Morales-Vega, Esther, 2013
Major Advisor: Scott Winterstein
Avian Biodiversity and Breeding Ecology along the Northern Boundary of Mar Negro Unit at Jobos Bay National Estuarine Research Reserve: a Baseline Assessment

Otto, Tammy E., 2013
Major Advisor: Gary Roloff
Developing and Implementing effective Black Bear exclusion devices to Protect Mobile Apiaries

Ross, Jared Arthur, 2013
Major Advisor: Dana Infante
Influences of Timber Management and Natural Landscape Factors on Anadromous Streams of Southeastern Alaska: Relating Local and Catchment Factors to Aquatic Habitat

Smith, Sara Elizabeth, 2013
Major Advisor: Cheryl Murphy
Sublethal Immune, Endocrine, and Bioenergetics Responses to Sea Lamprey Parasitism in Two Lake Trout Morphotypes from Lake Superior

Stoller, Jacob Branigan, 2013
Major Advisor: Daniel Hayes
Effects of a Rock Ramp Structure on Summer Fish Assemblage in the Shiawassee River

Thames, Rachael Ellen, 2013
Major Advisor: Gary Roloff
Salamander Response to Woody Biomass Harvests in Clearcut Aspen Stands in Michigan

Throckmorton, Elizabeth Anne, 2013
Major Advisor: Mohamed Faisal and Amber Peters
Investigations into the Disease Ecology of Viral Hemorrhagic Septicemia Virus (VHSV) Genotype IVB in Budd Lake, Michigan

2012

Bals, Jason, D., 2012
Major Advisor: C. Michael Wagner
Field and Laboratory Expression of the Sea Lamprey Alarm Response

Buchinger, Tyler J., 2012
Major Advisor: Weiming Li
Origins and Evolution of Bile Acid Pheromones

Droscha, Katie L., 2012
Major Advisor: Patricia Soranno
Quantifying the Relationships between Lake Nutrients and Agricultural Land use/cover at Different Spatial Scales

Eakin, Carly J., 2012
Major Advisor: Henry Campa, III
Assessing Wildlife Habitat Contributions of Green Roofs in Urban Landscapes in Michigan and Illinois, U.S.A.: Measuring Avian Community Response to Green Roof Factors

Higley, Corrine A., 2012
Major Advisor: Daniel Hayes
Influence of Temperature on Growth and Timing of Emergence of Four Mayfly Species

Prichard, Carson G., 2012
Major Advisor: James Bence
Estimation of Size-specific Sea Lamprey Wounding Rates on Lake Trout: Spatial and Temporal Patterns in the Upper Great Lakes

Shirkey, Brendan T., 2012
Major Advisor: Scott Winterstein
Diving Duck Abundance and Distribution on Lake St. Clair and Western Lake Erie

Siitari, Kiira J., 2012
Major Advisor: William W. Taylor
A Landscape Perspective on the Distribution and Harvest of North American River Otters in Michigan in Relation to Prey Availability

Williams, Mart C., 2012
Major Advisor: Michael L. Jones
Spatial, Temporal, and Cohort-Related Patterns in the Contribution of Wild Chinook Salmon (*oncorhynchus tshawytscha*) to Total Chinook Harvest in Lake Michigan

2011

Armstrong, Brandon M., 2011
Major Advisor: Cheryl Murphy
Multiple Stressor Effects of Two Contaminants on the Fathead Minnow (*pimephales promelas*) Using a Flow-Through Diluter System

Auvenshine, Stacie J., 2011
Major Advisor: Daniel Kramer
Do local environmental policies, land use planning, and policy fragmentation within lake catchments affect lake water clarity?

Brant, Cory O., 2011
Major Advisor: Weiming Li
From Synthesis to Behavioral Activity in Streams: Investigations of Putative Sea Lamprey Pheromone Components

Claus, Laura C., 2011
Major Advisor: Cheryl Murphy
Influence of Life History Traits on Accumulation of Polybrominated Diphenyl Ethers and Polychlorinated Biphenyls in Three Lake Trout Populations from Lake Superior

Groff, Katherine A., 2011
Major Advisor: Mark Axelrod
A Baseline Analysis of Poaching in Chiquibul National Park

Hessenauer, Jan-Michael, 2011
Major Advisor: Mary Bremigan
Quantifying Individual Contribution to Largemouth Bass Reproduction: Exploring the Effects of Spring Fishing, Habitat and Reproductive Behavior

Humphries, Joel T., 2011
Major Advisor: Scott Winterstein
Balancing White-Tailed Deer Ecology with Michigan National Guard Training at Fort Custer Training Center in Augusta, Michigan

Ives, Rebecca L., 2011
Major Advisor: Joan B. Rose
Giardiasis and Cryptosporidiosis in the Urban-Rural Spectrum

Jacques, Michelle L., 2011
Major Advisor: Tracy Dobson
The Transition to Industrial Farming Landscapes and Methods in Western Lower Michigan, and the Resulting Community Awareness

Johnston, Emily S., 2011
Major Advisor: Jen Owen
Anaplasma phagocytophilum Infection in Two Species of Passerine Birds, American Robins and Gray Catbirds: an Assessment of Reservoir Competence and Disease

Lawrence, Justin P., 2011
Major Advisor: Kelly Millenbah
The Diversity, Distribution, and Conservation of a Polymorphic Frog (*Oophaga pumilio*) in Western Panama

MacMillan, Eric A., 2011
Major Advisor: Brian Roth
Bycatch in the Saginaw Bay, Lake Huron Commercial Trap Net Fishery

McDonnell, Kevin N., 2011
Major Advisor: Brian Roth
Evaluating the Effects of Rainbow Smelt on Larval Walleye Densities and Bioenergetics in Wisconsin Inland Lakes

Meckley, Trevor D., 2011
Major Advisor: C. Michael Wagner
Right on the nose, investigations into how a pheromone guides the sea lamprey reproductive migration

Molton, Kyle J., 2011
Major Advisor: Travis O. Brenden
Keeping up with the times: Are more conservative control rules needed to protect intermixing Lake Whitefish populations?

Schmitt, Benjamin R., 2011
Major Advisor: Cheryl Murphy
Re-evaluation of the Thiamine Dose-Response Relationship for Larval Lake Trout (*Salvelinus namaycush*) using an Individual Based Model

White, Jeffrey D., 2011
Major Advisor: Orlando Sarnelle
Variation within a Population of Toxic, Bloom-forming Phytoplankton (*Microcystis aeruginosa*) drives Vulnerability to Grazing

Ziegenmeyer, Heidi L., 2011
Major Advisor: Mary Bremigan
Effects of Spring Angling, Habitat Features, and Guarding Male Attributes on Largemouth Bass (*Micropterus salmoides*) Nest Survival, and Implications for Fall Young-of-Year Abundance

Zuccarino-Crowe, Chiara M., 2011
Major Advisor: William Taylor
Assessment of Lake Trout Refuge Effects on Trends in Relative Abundance of Select Native Fish Species in the Apostle Islands Region, Lake Superior

2010

Alwin, Thomas G., 2010
Major Advisor: Kendra Cheruvelil
Biological Control of the Invasive Macrophyte Eurasian Watermilfoil with the Native Milfoil Weevil: Population Dynamics in Three Michigan Lakes

Arsnoe, Dustin M., 2010
Major Advisor: Jennifer Owen
Influence of Body Condition and Homo- vs. Heterosubtypic Immunity on Influenza A Infection in Mallard Ducks: Experimental Infection Data

Bailey, Robyn L., 2010
Major Advisor: Henry Campa, III
Modeling Habitat Suitability and Population Demographics of the Eastern Massasauga Rattlesnake in Managed Lands in Southwestern Michigan

Booker, Joshua D., 2010
Major Advisor: Kendra Cheruvelil
The Spatial Distribution of Daphnia Resources in Shallow Lakes: Is Food Quantity or Quality for Zooplankton Determined by Macrophytes?

Eichinger, Daniel T., 2010
Major Advisor: William W. Taylor
Toward a Curriculum in Conservation Law and Policy

Fergus, Carol E., 2010
Major Advisor: Patricia Soranno
The effects of land use disturbance on wetland relationships with lake TP and water color

Guo, Jiarong, 2010
Major Advisor: Joan B. Rose
Twilight Zone: Protein Search and Classification in Metagenomic Data

Kahler, Jessica S., 2010

Major Advisor: Meredith Gore

Local perceptions of risk and vulnerability associated with human-wildlife conflicts in Namibian conservancies

Mazher, Mustafa A., 2010

Major Advisor: Joan B. Rose

Examination of the Transport and Retention and Exploration of the Spatial Distribution of Microbial Indicators in Soil Aggregates

O'Brien, Timothy P., 2010

Major Advisor: William W. Taylor

Early Life History Dynamics and Recruitment Processes of Rainbow Smelt in Lake Huron

Orlic, Ivan, 2010

Major Advisor: William W. Taylor

The Development of the Peruvian Anchovy Fishery: Governance, Management and Industry Innovation

Peters, Kimberly A., 2010

Major Advisor: Scott Peacor

Nutrient vs. Light Limitation of Benthic Algae in Saginaw Bay, Lake Huron: A Spatial Analysis

Tingley, III, Ralph W., 2010

Major Advisor: Dana M. Infante

Evaluating Stream Habitat in Northern Michigan: Implications for Conserving Arctic Grayling (*thymallus arcticus*)

White, Jennifer M., 2010

Major Advisor: Kim Scribner

Monitoring Elusive Carnivores using Noninvasive Genetic Techniques: A Case Study of Bobcats (*Lynx rufus*) in the Northern Lower Peninsula, Michigan