

## Mario Minder

Mario.M.Minder@gmail.com

---

### EDUCATION

---

**Ball State University**, Muncie, IN, August 2016-August 2019  
PhD in Environmental Science  
Advisor: Dr. Mark Pyron  
*Dissertation*: Diets of Fishes Among and Within Ecoregions of the US and Mongolian Rivers.

**Ball State University**, Muncie, IN, August 2014- May 2016  
M.S. in Biology  
Advisor: Dr. Mark Pyron  
*Thesis*: Are silver carp diets the same as native fish in the Wabash River?  
Awards: Fisheries Graduate Student of the Year 2016

**Rowan University**, Glassboro, NJ, August 2007- May 2011  
B.S in Biology  
Dean's List: Fall 2009, Spring 2010, Spring 2011

**Universidad de San Francisco**, San Cristóbal, Galapagos August 2010- December 2010  
Fish Ecology Study Abroad Course.

---

### PUBLICATIONS

---

**First Author:**

Minder M., and M. Pyron. Dietary overlap and selectivity among silver carp and two native filter feeders in the Wabash River. *Ecology of Freshwater Fish*.

Minder M., M. Pyron, E.R. Arsenault, B. Erdenee. Dietary specificity and overlap in endorheic river fishes: How do native and nonnative species compare?

**Coauthor:**

Pyron, M., et al. Are long-term fish assemblage changes in a large US river related to the Asian Carp invasion? Test of the hostile take-over and opportunistic dispersal hypotheses. *Aquatic Sciences* (2017): 1-12.

Pyron, Mark, et al. Long-term fish assemblages of the Ohio River: Altered trophic and life history strategies with hydrologic alterations and land use modifications. *PloS one* 14.4 (2019): e0211848.

**In prep:**

Minder M., and M. Pyron. Diet trends and diet overlap among Native Cutthroat Trout (*Oncorhynchus clarki*) and Nonnative Trout in the U.S. Great Basin and Yellowstone River Basin

Minder M., and M. Pyron. Are fish diets in mountain steppe rivers similar across continents?

Minder M., and M. Pyron. Diets and selectivity of fishes in Mongolian Mountain Steppe Rivers.

## **P R E S E N T A T I O N S**

---

Minder, M., M. Pyron, R.C. Shields, E.R. Arsenault, C. Artz. 2019. Dietart Comparisons of fishes in the U.S. and Mongolian Mountain Steppe. Society for Freshwater Science. Salt Lake City, UT. Oral.

Minder, M., M. Pyron, R.C. Shields, E.R. Arsenault. 2019. Dietary Comparisons of Fishes in the US and Mongolian Mountain Steppe. Midwest Fish and Wildlife Conference, Cleveland, OH. Oral.

Minder, M., M. Pyron, R.C. Shields. 2018 Dietary Comparisons of Trouts in the Western United States. Ball State University Student Symposium, Muncie, IN. Poster

Minder, M., M. Pyron, R.C. Shields. 2018. Dietary Comparisons of Trouts in the Western Great Basin and Wyoming Mountain Steppe. Midwest Fish and Wildlife Conference, Milwaukee, WI. Oral.

Minder, M., M. Pyron, R.C. Shields, E.R. Arsenault, M. Thai., 2017. Diet Contents and Dietary Selectivity of Fishes in the U.S. Great Basin. Midwest Fish and Wildlife Conference, Lincoln, NE. Oral.

Minder, M., M. Pyron, R.C. Shields, E.R. Arsenault, M. Thai. 2017. Diet Contents and Dietary Selectivity of Fishes in the U.S. Great Basin. Indiana Ohio American Fisheries Society, Muncie, In. Oral.

Minder, M., M. Pyron, R.C. Shields. 2016. Are Diets of Native Fishes the Same as Silver Carp in the Wabash River? Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA. Oral.

Minder, M. 2016. Diets of Invasive Silver Carp. Indiana Water Resources Association. Poster.

Minder, M., M. Pyron, R.C. Shields. 2016. Silver Carp Diet Selectivity in the Wabash River. Midwest Fish and Wildlife Conference, Grand Rapids, MI. Oral.

Minder, M., M. Pyron, R.C. Shields. 2016. Diet Selectivity and Overlap of Silver Carp in the Wabash River. Bloomington, IN. Poster.

Minder, M. 2015. Off-Channel Habitats of the Patoka River, Indiana. Society of Freshwater Fish, Milwaukee, WI. Poster.

Minder, M. 2015. Off-Channel Habitats of the Patoka River, Indiana. National American Fisheries Society, Portland, OR. Poster.

## **RESEARCH EXPERIENCE**

---

### **Biological Technician for North Carolina Wildlife Resource Commission**

North Carolina Wildlife Resource Commission March 2019 – December 2020

Fish, crayfish and mussel surveys (electrofishing, seining, snorkeling)

- Identification and population assessments
- Mussel hatchery operation and maintenance
- Data management and processing

### **Research Assistant to Mark Pyron and Jim Thorpe for NSF funded macrosystems project [www.macrorivers.org](http://www.macrorivers.org)**

The University of Kansas, Summer 2017 – Summer 2019

- Fish and Foodweb team lead in Western Mongolian Terminal Basin in summer 2018
  - Led a crew of Mongolian and American researchers during a month-long research expedition
- Field collection the Nebraska Grassland in summer 2018
- Field collection in the Wyoming Mountain Steppe in summer 2017
- Field collection in U.S. Great Basin in summer 2016

### **Research Assistant to Mark Pyron**

Ball State University, Fall 2014 – Fall 2019

- Prepared annual report for a Yellow Perch monitoring project in the Indiana section of Lake Michigan
- Stream surveys, river electrofishing, insect identification, algae identification
- Performed assessments for gravel and coal mine impacts on stream fishes

### **Experimental Biological Aide for Willamette BiOp,**

Oregon Department of Fish and Wildlife, Fall 2011- Summer 2014

- Operated and maintained rotary screw traps, gill nets, lake traps,
- Performed snorkel surveys, snorkel seining, PIT monitoring, spawning ground surveys, radio telemetry, day and night electrofishing, diet sample collection and processing, bone identification, isotope sampling, data entry and management

**Research Assistant to Dr. Micheal Grove,**

Rowan University,

Summer 2009

*Effects of an Invasive Grass on Fiddler Crab Activity and Bioturbation in New Jersey Salt Marshes.*

- Collection of field samples (fiddler crabs, marsh grasses, and sediment), processing of sediment and grasses, analysis of field samples, and setup of field experiments.

**Biology Department Preparatory Lab Technician,**

Rowan University,

Fall 2007 – Spring 2011

- Tasks included preparing solutions for labs, making plates and other media for labs

---

**TEACHING EXPERIENCE**

**Adjunct Faculty,** Western Carolina University

January 2020 – Current

*Natural Resource Conservation and Management NRM140-*

Instructor for introductory NRCM course for non-majors. Class shifted to online only following the Covid-19 outbreak.

**Lecture Instructor,** Ball State University

*Biogeography BIO519 –*

January 2019 – May 2019

Instructor for online class focusing on the distributions of plants and animals using Canvas and Blackboard software.

*Principles of Biology 2 BIO112 –*

August 2018 - December 2018

Lecture and lab instructor for introductory biology class for biology majors

*Ichthyology ZOOL544 -*

August 2017 - September 2017

lecture and lab instructor focusing on hands-on field training (field sampling and gut content analysis methodology)

**Teaching Assistant,** Ball State University

*Principles of Biology 2-* lab instructor and assisted students in research August 2016 - May 2017 projects

---

## PROFESSIONAL REFERENCES

---

**Mark Pyron**-Dissertation Advisor  
Department of Biology Ball State University  
Cooper Life Science, CL 229C  
Muncie, IN, 47306  
mpyron@bsu.edu  
765-285-8852

**Robert Shields**  
Fisheries Experiment Station  
1465 W. 200 N.  
Logan, UT, 84321  
rshields@utah.gov  
435-752-1066

**Nicole Chodkowski**  
Department of Biology Radford University  
185 Center for the Sciences  
Radford, Va 24142  
nc526@cornell.edu  
516-690-4302

**Luke Etchison**  
N.C. Wildlife Resources Commission  
20830 Great Smoky Mt. Exp.  
Waynesville, NC 28786  
Luke.etchison@ncwildlife.org  
765-623-9594

**Jeremy Romer**  
Oregon Department of Fish and  
Wildlife Springfield ODFW Office  
3150 E Main Street  
Springfield, OR 97305  
jeremy.d.romer@state.or.us