

Wendi K. Fisher

123 Pearson Hall
Miami University
Oxford, OH 45056

(513) 333-2222
fisherwk@miamioh.edu

EDUCATION

Miami University, Oxford, Ohio. 20XX – Present

Ph.D. candidate, Ecology, Evolution, and Environmental Biology graduate program

Dissertation Topic: The role of nutrients and ecological stoichiometry on the ontogenetic niche shifts of aquatic predators

Advisor: Dr. Janet Marcus

University of Puget Sound, Tacoma, Washington. 20XX

Bachelor of Science with major in Biology, minor in Chemistry

Cum laude and Honors in Biology

PUBLICATIONS

Fisher WK, Showkeir, MJ, Chavez RM. *In review at Functional Ecology*. Is elemental imbalance a cause or consequence of ontogenetic diet shifts? The ecological stoichiometry of the bluegill sunfish.

Kidwell TK, Abromowitz AR, Debussy J, Chang S-S, **Fisher WK**, Romanoff S. 20XX. Mating behavior, life history, and adaptation to insecticides determine competitive displacement by an invasive whitefly. *Journal of Animal Ecology* 79: 563-570.

Fisher WK, Christman S, Friedman GE, Sawyer Y. 20XX. A primer for using transgenic insecticidal cotton in developing countries. *Journal of Insect Science* 9 (22): 39pp.

Fisher WK, Christman S, Friedman GE, Sawyer Y. 20XX. Development, agronomic performance and sustainability of transgenic cotton for insect control. Pp. 49-71. In: R Tripp (Ed.), *Biotechnology and agricultural development: Transgenic cotton, rural institutions and resource-poor farmers*. Routledge.

Sawyer Y, **Fisher WK**, Madison JA, DeMille J, Lloyd S, Tarran ZD. 20XX. Cadherin gene expression and effects of Bt resistance on sperm transfer in pink bollworm. *Journal of Insect Physiology* 55:1058-1064.

Non-Refereed Publications

Fisher WK. 20XX. How to Write a Lab Report. Pp. 99-110. In: RJ Hickey, EE Schussler, NG Solomon, and MI Sitvarin (Eds.), *Laboratory Experiences for Biological Concepts: Ecology, Evolution, Genetics, and Diversity*. Hayden-McNeill Publishing, Plymouth, MI.

Fisher WK. 20XX. How to Write a Lab Report. Pp. 93-104. In: RS Balish, QQ Li, and DG Pennock (Eds.), *Laboratory Experiences for Biological Concepts: Structure, Function, Cellular and Molecular Biology*. Hayden-McNeill Publishing, Plymouth, MI.

FUNDED GRANTS

* Miami University undergraduate student

20XX **Fisher WK**, Lipnickey KR*. Miami University Doctoral-Undergraduate Opportunities for Scholarship. Effects of food quality on dragonfly carbon assimilation and phosphorous excretion rates. \$1,000

20XX Perez DD, **Fisher WK**. National Science Foundation- REU Supplement Program. Stoichiometric food quality effects on damselfly foraging and fluctuating asymmetry. \$7,500

Fisher WK. Sigma Xi Grants-in-Aid of Research. Effects of nutritional food quality on the growth, behavior, and physiology of an insect that links aquatic and terrestrial food webs. \$990

20XX Perez DD (co-written with **Fisher WK**). Miami University Committee on Faculty Research. Effects of nutritional food quality on the development, behavior, and physiology of an insect that links aquatic and terrestrial food webs. Awarded 1-year graduate research assistantship

Fisher WK. Sigma Xi Grants-in-Aid of Research. The interactive role of lake productivity and sediment-feeding fish on growth and overwinter survivorship of bluegill sunfish. \$545

20XX **Fisher WK**. Miami University Zoology Department Summer Workshop. Effects of lake productivity on the ontogenetic niche shifts of the bluegill sunfish. \$1,595

TEACHING EXPERIENCE

Graduate Teaching Assistant and Sole Course Developer, Honors laboratory sections for Biological Concepts: Structure and Function (BIO116H). Zoology Department, Miami University, Oxford, OH. Spring 20XX.

Solely developed and implemented all course learning objectives, laboratory exercises, student handouts, and learning assessments.

Head Graduate Teaching Assistant, laboratory sections for Biological Concepts: Structure and Function (BIO116). Zoology Department, Miami University, Oxford, OH. Spring 20XX. Organized and led TA prep meetings and created teaching guides for TAs.

Graduate Teaching Assistant and Guest Lecturer, laboratory sections for Limnology (BIO463/563). Zoology Department, Miami University, Oxford, OH. Fall 20XX.

Taught two laboratory sections. Covered one lecture and one class discussion while Dr. Eric Jenkins attended a professional meeting.

Graduate Teaching Assistant, laboratory sections for Biological Concepts: Structure and Function (BIO116). Zoology Department, Miami University, Oxford, OH. Spring 2009.

Taught two laboratory sections.

Graduate Teaching Assistant, laboratory sections for Biological Concepts: Ecology, Evolution, and Genetics (BIO115). Zoology Department, Miami University, Oxford, OH. Fall 20XX.

Taught two laboratory sections and contributed to the course's revision.

MENTORING EXPERIENCE

Monica Webber (Spring 20XX - Present)

- *Miami University Doctoral-Undergraduate Opportunities for Scholarship program*. Fall 20XX. Project title: Effects of food quality on dragonfly carbon assimilation and phosphorous excretion rates
- *Poster presentation*: Webber MA, Fisher WK, Perez DD. Light affects nutrient excretion of an invertebrate aquatic predator. Midwest Ecology and Evolution Conference, South Bend,

IN (March 20XX) and Miami University Undergraduate Research Forum (April 20XX) ***This needs to go on page 2***

Tyrell Yearwood (Spring 20XX – Spring 20XX)

- *Poster presentation:* Yearwood TS, Fisher WK, Perez DD. Food quality for larval damselflies affects adult fat content. Midwest Ecology and Evolution Conference, South Bend, IN (March 20XX) and Miami University Undergraduate Research Forum (April 20XX)

Alexander Sandborg (Fall 20XX-Spring 20XX)

- *Poster presentation:* Sandborg AZ, Fisher WK, Perez DD. Larval damselflies increase foraging effort in response to low nutrient levels. Midwest Ecology and Evolution Conference, South Bend, IN (March 20XX) and Miami University Undergraduate Research Forum (April 20XX)
- *Miami University Undergraduate Summer Scholars program.* Summer 20XX. Project title: Effects of stoichiometric food quality on fluctuating asymmetry in damselflies

WRITING CENTER EXPERIENCE

Graduate Assistant Director, Howe Writing Center, Miami University. Fall 20XX - Present. Developed and implemented initiatives to improve writing in the sciences. Facilitated writing center collaboration with science departments and the Office for the Advancement of Research and Scholarship. Provided training and mentoring for undergraduate writing consultants. Consulted with undergraduate and graduate student writers across all disciplines.

Workshops developed and implemented for the Howe Writing Center

For undergraduate students

- Basics of Microsoft Excel (Spring & Fall 20XX)
- Lab reports (Fall 20XX)
- Poster presentations (Spring 20XX)
- Undergraduate Research Award grant proposals (Spring 20XX)

For graduate students

- Writing successful Sigma Xi grant proposals (Fall 20XX, Spring & Fall 20XX)
- Evaluating writing quality in student lab reports (Spring 20XX)

In-class workshops requested by faculty

- Using Microsoft Excel in limnology (BIO 463/563 – Limnology, Fall 20XX)
- Structuring manuscript introductions (GTY 608 – The Logic of Inquiry, Fall 20XX)
- Strategies for professional report writing (IES 610 – Professional Service Project, Fall 20XX)

CONFERENCE PRESENTATIONS

* Miami University undergraduate student

Fisher WK, Sandborg AZ*, Webber MA*, Perez DD. Evidence of behavioral compensation and reduced body condition in an aquatic predator exposed to low food quality. Ecological Society of America annual meeting, Minneapolis, MN. August 20XX.

Fisher WK, Sandborg AZ*, Perez DD. Evidence of behavioral compensation in damselflies exposed to low nutrient inputs. Society for Freshwater Science annual meeting, Jacksonville, FL. May 20XX.

Fisher WK, Johnson AD*, Perez DD. Benthic invertebrate communities are more responsive to nutrient inputs than the presence of a sediment-feeding fish. Midwest Ecology and Evolution Conference, South Bend, IN. March 20XX.

Fisher WK, Ewing JR, Perez DD. Diet shifts and developmental requirements contribute to ontogenetic changes in the ecological stoichiometry of bluegill sunfish (*Lepomis macrochirus*). Ecological Society of America annual meeting, Portland OR. August 20XX.

Fisher WK, Ewing JR, Perez DD. Diet shifts and developmental requirements contribute to ontogenetic changes in the ecological stoichiometry of bluegill sunfish (*Lepomis macrochirus*). Midwest Ecology and Evolution Conference, Cincinnati, OH. March 20XX.

HONORS & AWARDS

Graduate Student Achievement Award, Miami University. 20XX

Second-place Oral Presentation Award, Midwest Ecology and Evolution Conference. 20XX

Graduate Student Academic Achievement Award, Miami University. 20XX

Outstanding Teaching Assistant Award, University of Puget Sound. 20XX – 20XX

Phi Sigma Biology Honors Society, University of Puget Sound. Inducted March 20XX

PROFESSIONAL EXPERIENCE

Faculty Learning Community on Scholarly Communication, Center for the Enhancement of Learning, Teaching, and University Assessment; Miami University. Fall 20XX - Present

Graduate Student Teaching Enhancement Program, Center for the Enhancement of Learning, Teaching, and University Assessment; Miami University. Fall 20XX.

Research Assistant, Dr. Simone Durr, Department of Entomology, University of Arizona. February 20XX – July 20XX. Conducted laboratory experiments on and genotyping of *Bacillus thuringiensis*-resistant pink bollworm.

Research Apprenticeship, Dr. Ines Magolda, University of Washington Friday Harbor Laboratories. Fall 20XX. Quantified the predator avoidance behavior and population genetic structure of congener intertidal snails (*Littorina* spp.).

Research Assistant, Dr. Eli Simpson, Biology Department, University of Puget Sound. Spring – Summer 20XX. Designed and performed experiments to model the optimal foraging hypothesis using the “predatory” bacterium *Bdellovibrio bacteriovorus*.

Research Assistant, Dr. Yvonne Garcia, Biology Department, University of Puget Sound. Summer 20XX – 20XX. Examined the microhabitat selection and feeding habits of the rocky intertidal seastar *Leptasterias hexactis* as part of a senior thesis project.

Reviewer for *Freshwater Science*

SERVICE ACTIVITIES

Committee for Undergraduate Research, graduate student representative, Miami University Faculty Senate. Fall 20XX -- Present

Graduate Advisory Committee, graduate student representative, Zoology Department, Miami University. Fall 20XX – Spring 20XX. Contributed to the development of the assessment plan for the Biology graduate program and the 5-year BS/MA program in Biology.

Revision Committee for introductory biology laboratory course (BIO 115), graduate student representative, Zoology Department, Miami University. Spring & Fall 20XX. Contributed to the development of laboratory exercises for first-semester introductory biology, authored guides for scientific writing contained in the official lab manual, and created lab report grading rubrics and other teaching materials.

Coordinator of the “Ecolunch” seminar series, Miami University. Spring & Fall 20XX.

Moderator for an oral presentation session, Undergraduate Research Forum, Miami University. Spring 20XX, 20XX

Aquatic Ecology Instructor, Talawanda Elementary School Science Week, Oxford, OH. 20XX – 20XX.

Social Committee, graduate student representative, Zoology Department, Miami University. Fall 20XX– Spring 20XX.

PROFESSIONAL MEMBERSHIPS

Sigma Xi

Ecological Society of America

Society for Freshwater Science