

## Jeremy Pritt

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### EDUCATION

Ph.D., Biology (Ecology Track, Graduating May 2014), University of Toledo, Toledo, OH

- Dissertation Research: Effects of migratory fish on ecosystem function of western Lake Erie tributaries

M.S., Fisheries and Wildlife Sciences (June 2010), Virginia Tech, Blacksburg, VA

- Thesis Research: Defining rarity and determining the mechanisms of rarity for North American freshwater fishes

B.S., Forestry, Fisheries, and Wildlife (June 2008), Ohio State University, Columbus, OH

- Undergraduate Research: The response of orangethroat darter life-history traits to agricultural disturbance

### PROFESSIONAL EXPERIENCE

U.S. Geological Survey, Great Lakes Science Center, Ann Arbor, MI (12/2013-Present)

- Post-Doctoral Contracted Researcher

University of Toledo, Toledo, OH (1/2010-12/2013)

- Graduate Research and Teaching Assistant

Virginia Tech, Blacksburg, VA (6/2008-1/2010)

- Graduate Research and Teaching Assistant

Ohio State University, Columbus, OH Stream Ecology Lab (6/2006-6/2008)

- Research Assistant

### PUBLICATIONS

**Pritt, J.J.**, E.F. Roseman, and T.P. O'Brien. *In press*. Mechanisms driving recruitment variability in fishes: comparisons between the Laurentian Great Lakes and marine systems. *ICES Journal of Marine Science*.

**Pritt, J.J.**, M.R. DuFour, C.M. Mayer, E.F. Roseman, and R.L. DeBruyne. *In press*. Sampling little fish in big rivers: larval fish detection probabilities in two Lake Erie tributaries and implications for sampling effort and abundance indices. *Transactions of American Fisheries Society*.

**Pritt, J.J.**, and E.A. Frimpong. 2014. The effect of sampling intensity on observed patterns of rarity and community assessment metrics in stream fish samples. *Ecological Indicators* 39:169-178.

**Pritt, J.J.**, M.R. DuFour, C.M. Mayer, P.M. Kocovsky, J.T. Tyson, E.J. Weimer, and C.S.

- Vandergoot. 2013. Including independent estimates and uncertainty to quantify total abundance of fish migrating in a large river system: walleye (*Sander vitreus*) in the Maumee River, OH. *Canadian Journal of Fisheries and Aquatic Sciences* 70: 803–814.
- Pendleton, R.M., **J.J. Pritt**, B.K. Peoples, and E.A. Frimpong. 2012. The strength of *Nocomis* nest association contributes to patterns of rarity and commonness among New River, Virginia cyprinids. *American Midland Naturalist* 168:202-217.
- Pritt, J.J.**, and E.A. Frimpong. 2010. A quantitative classification of rarity for freshwater fishes of the United States and implications for imperiled species listings. *Conservation Biology* 24: 1249-1258.

### MANUSCRIPTS IN PROGRESS

- Mapes, R.L., M.R. DuFour, **J.J. Pritt**, and C.M. Mayer. Larval fish assemblage recovery: a reflection of environmental change in the Maumee River, Ohio. *Accepted with Revisions* at *Restoration Ecology* (9/2013).
- Fraker, M.E., K.N. DeVanna, E.J. Anderson, K. Chen, J.J. Davis, M.R. DuFour, E.A. Marschall, C.J. May, C.M. Mayer, J.G. Miner, K.L. Pangle, **J.J. Pritt**, E.F. Roseman, J.T. Tyson, Y. Zhao, and S.A. Ludsin. The value of individual-based, coupled physical-biological models to the study of larval fish recruitment in large freshwater systems: an example and prospectus. *In Review* at *Journal of Great Lakes Research* (4/2014).
- DuFour, M.R., **J.J. Pritt**, C.M. Mayer, and C.A. Stow. Incorporating uncertainty into estimates of larval fish abundance and mortality on a large river using Bayesian methods. *In Review* at *Journal of Great Lakes Research* (12/2013).
- Pritt, J.J.**, and C.M. Mayer. Fish migration as an ecosystem linkage between a large lake and its tributaries. *In prep* for *Ecosystems* (expected submission 4/2014).
- Pritt, J.J.**, and E.A. Frimpong. Diffusive rarity in North American stream fishes. *In prep* for *Ecography* (expected submission 5/2014).

### FUNDED RESEARCH

- Pritt, J.J.**, B.K. Peoples, and E.A. Frimpong. 2009. Ecological assessment of Chestnut Creek in Galax, Virginia. Mathews Foundation, Virginia Tech College of Natural Resources, Blacksburg, VA. \$1,400.

### TEACHING EXPERIENCE

USGS, Great Lakes Science Center

- Larval Fish Identification and Ecology Workshop (Co-instructor, 2/2014, Geneva, NY)

University of Toledo

- General Ecology Lab (Teaching Assistant, Fall 2011)
- Guest lecturer for Ecology (Fall 2011)
- Guest speaker for Environmental Readings and Communications (Spring 2014)

Virginia Tech

- Fisheries Techniques (Teaching Assistant, Fall 2008, Fall 2009)

- Fish Ecology (Teaching Assistant, Spring 2009)
- Principles of Fisheries and Wildlife (Teaching Assistant, Fall 2008)

Ohio State University

- Aquatic Entomology Course (Laboratory Assistant, Spring 2008)

#### UNDERGRADUATE STUDENT MENTORING

University of Toledo

- Co-mentored undergraduate research project by R.L. Mapes, resulting in a manuscript accepted pending revisions at *Restoration Ecology* (as of 1/28/2014)

Virginia Tech

- Mentored undergraduate research project by R.M. Pendleton, resulting in a publication at *American Midland Naturalist* (Pendleton et al. 2012, above)

#### PROFESSIONAL MEMBERSHIPS and SERVICE

- American Fisheries Society
  - Science Editor for *Fisheries* (AFS peer-reviewed magazine)
  - Member of Ohio Chapter of the American Fisheries Society
  - Reviewer for AFS journals
- American Institute of Fishery Research Biologists
- International Association of Great Lakes Researchers

#### SELECTED ACTIVITIES and VOLUNTEER EXPERIENCE

- Ottawa Hills High School Science Fair Judge (2012-2013)
- University of Toledo, Lake Erie Center Board Member (2011-2014)
- University of Toledo, Lake Erie Center Science Camp, Volunteer (2010-2013)
- Black Swamp Conservancy, Volunteer Monitor (2011-2012)
- Virginia Tech American Fisheries Society, Outreach Chair (2008-2009), Vice President (2009)
- Stroubles Creek Restoration Project (Blacksburg, VA), Volunteer (2009)
- Ohio State University Student Chapter of the Wildlife Society (2007-2008)
- Ohio State University, Soil and Water Conservation Society (2006-2008), President (2007-2008)
- Ohio State University, Kottman Hall Aquarium Caretaker (2007-2008)
- Ohio Farm Science Review (Columbus, OH), Stream Ecology Booth (2006, 2007)
- Amish Farm Family Field Day (Millersburg, OH), Stream Ecology Booth (2006, 2007)
- Ohio State Mount Leadership Society, Member and Volunteer (2004-2006)

#### INVITED PRESENTATIONS

**Pritt, J.J.**, and E.F. Roseman. Early Life History Ecology of Fishes- Comparisons between

Great Lakes and Marine Systems. American Fisheries Society Annual Meeting, St. Paul, MN. August 2012. (Oral presentation).

**Pritt, J.J.**, M.R. DuFour, C.M. Mayer, P. Kocovsky, J.T. Tyson, and E.J. Weimer. Walleye spawning stock size and migration cues in the Maumee River. Walleye Task Group Annual Meeting, Huron, OH. February 2012. (Oral presentation).

**Pritt, J.J.**, M.R. DuFour, C.M. Mayer, P. Kocovsky, J.T. Tyson, E.J. Weimer, S. Panek, and T. Bridgeman. Effects of the Bay Shore Power Plant on ecosystem function. Lake Erie Center Public Lecture Series, Toledo, OH. March 2011. (Oral presentation).

#### SELECTED CONTRIBUTED PRESENTATIONS

**Pritt, J.J.**, M.R. DuFour, C.M. Mayer, E.F. Roseman, and R.L. DeBruyne. Larval fish detection probabilities in two Lake Erie tributaries. New York Chapter of the American Fisheries Society Annual Meeting, Geneva, NY. February 2014. (Poster presentation).

**Pritt, J.J.**, M.R. DuFour, C.M. Mayer, E.F. Roseman, and R.L. DeBruyne. Sampling little fish in big rivers: detection probabilities of larval fish in two Lake Erie tributaries. American Fisheries Society Annual Meeting, Little Rock, AR. September 2013. (Oral presentation).

**Pritt, J.J.**, M.R. DuFour, C.M. Mayer, P. Kocovsky, J. Tyson, E. Weimer, C. Vandergoot, and C. Stow. Abundance and ecology across life stages: walleye reproduction in the Maumee River, OH. International Association of Great Lakes Researchers Annual Meeting, West Lafayette, IN, June 2013. (Oral presentation).

**Pritt, J.J.**, and C.M. Mayer. Fish migration as an ecosystem linkage between western Lake Erie and a major tributary. American Fisheries Society Annual Meeting, St. Paul, MN. August 2012. (Oral presentation).

**Pritt, J.J.**, M.R. DuFour, C.M. Mayer, P. Kocovsky, J. Tyson, and E. Weimer. Walleye spawning stock size and migration cues in the Maumee River. Ohio State University Lake Erie-Inland Waters Annual Research Review, Columbus, OH. January 2012. (Oral presentation).

**Pritt, J.J.** and E.A. Frimpong. Definitions of rarity for North American freshwater fish and biological traits associated with rarity. Southeastern Fishes Council Annual Meeting, Athens, GA. November 2010. (Oral Presentation).

**Pritt, J.J.**, and E.A. Frimpong. Definitions of rarity for stream fishes and factors associated with rarity. American Fisheries Society Annual Meeting, Pittsburgh, PA. September 2010 (Oral presentation).

**Pritt, J.J.**, and E.A. Frimpong. A classification of rarity for North American freshwater fishes. American Fisheries Society Southern Division Student Colloquium, Blacksburg, VA. October 2009. (Oral presentation).

**Pritt, J.J.**, and E.A. Frimpong. The effect of sampling intensity on observed rarity and community assessment of stream fish samples. American Fisheries Society Annual Meeting, Nashville, TN. September 2009. (Poster presentation).

**Pritt, J.J.**, and P. Smiley. The response of orangethroat darter life-history traits to agricultural

disturbance. Denman Undergraduate Research Forum, Columbus, OH. May 2008. (Poster presentation).

#### TECHNICAL REPORTS and PUBLICATIONS

Roseman, E., D. Bennion, E. Bouckaert, D. Bowser, N. Cordero, J. Craig, R. DeBruyne, J. Fischer, N. Gainer, E. George, R. Hunter, S. Ireland, K. Keeler, G. Kennedy, M. Lynch, B. Manny, D. McCullaugh, M. McLean, **J. Pritt**, S. Provo, L. Rodriguez, J. Ross, J. Sutherland, and P. Thompson. 2014. Annual summary of USGS Great Lakes Science Center's fisheries research and monitoring in the St. Clair - Detroit Rivers System. U.S. Geological Survey, Great Lakes Science Center, Ann Arbor, Michigan.

Mayer, C., T. Bridgeman, C. Stepien, J. Tyson, P. Kocovsky, C. Stow, E. Weimer, M. DuFour, A. Haponski, S. Panek, **J. Pritt**, T. Sullivan, H. Dean, M. Kuebbeler, R. Mapes, D. Murphy, P. Bichier. 2011. Effects of Bayshore power plant on ecosystem function in Maumee Bay, western Lake Erie. Annual Progress Report to NOAA: October 2010-February 2011, Award Number: NA09OAR4170182.