

Mary Alta Rogalski

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1038 Ruthven Museums Building, Department of Ecology and Evolutionary Biology,
University of Michigan, Ann Arbor, Michigan, USA

Education

- 2009-2015 **Doctor of Philosophy**
Yale University, School of Forestry and Environmental Studies
Committee: David Skelly (chair), Nelson G. Hairston, Jr., Oswald Schmitz
Dissertation: Ecological and evolutionary responses of zooplankton communities to changes in lake chemical environments
- 2007-2009 **Master of Environmental Science**
Yale University, School of Forestry and Environmental Studies
Thesis: Positive effects of nonnative invasive *Phragmites australis* on larval bullfrogs
- 1998-2002 **Bachelor of Science**, Biology and Environmental Science, *cum laude*
College of William and Mary, Williamsburg, VA

Research and Work Experience

- 2015 - present **Postdoctoral Research Scientist**, University of Michigan, Ann Arbor, MI.
PI: Meghan Duffy, Department of Ecology and Evolutionary Biology
- 2009 - 2015 **Doctoral Research**, Yale University, New Haven, CT. PI: Dr. David Skelly
- 2007 - 2008 **Research Assistant**, Yale University, New Haven, CT, PI: Dr. David Skelly
- 2006 - 2007 **Seasonal Naturalist**, Potomac Overlook Regional Park, Arlington, VA
- 2003 - 2006 **Science Policy Program Assistant**, National Council for Science and the Environment, Washington, DC
Coeditor of published reports on two national level conferences:
Energy for a Sustainable and Secure Future (2006)
Forecasting Environmental Changes (2005)
- Summer 2003 **Research Assistant and Teaching Assistant**, College of William & Mary, NSF LTER biogeochemistry study, PI: Dr. Randy Chambers
- Spring 2003 **Research Assistant**, Virginia Institute of Marine Science, estuarine invertebrate sample processing, Gloucester, VA, PI: Dr. Robert Diaz
- Summer 2002 **NSF REU Intern**, Smithsonian Environmental Research Center, Salt marsh biogeochemistry study, Edgewater, MD, PI: Dr. Pat Megonigal
- 07/2001 **Research Assistant**, Ocean Mammal Institute, Spinner dolphin study, Kona, Hawaii
- 01/2001 **Intern**, Ocean Mammal Institute, Humpback whale behavior study, Maui, Hawaii

Refereed Publications

- M. A. Rogalski.** 2015. Tainted resurrection: Metal pollution is linked with reduced hatching success and high juvenile mortality in *Daphnia* egg banks. *Ecology* 96(5):1166-1173.
- M. A. Rogalski** and D. K. Skelly. 2012. Positive effects of nonnative invasive *Phragmites australis* on larval bullfrogs. *PLoS One*. 7(8):e44420.

Manuscripts in Review

- M. A. Rogalski**, D. K. Skelly, and P. R. Leavitt. *Submitted*. Taxonomic homogenisation of daphniid zooplankton assemblages in pollution impacted lakes during the Anthropocene. *Proceedings of the Royal Society B: Biological Sciences*.
- M. A. Rogalski**, C. L. Shaw, R. A. Hufbauer, C. D. Gowler, and M. A. Duffy. *In review*. Emerging and disappearing diseases: Human drivers of eco-evolutionary dynamics in infectious disease systems. *Philosophical Transactions of the Royal Society B: Biological Sciences*.

Manuscripts in Preparation

- M. A. Rogalski.** Evidence of maladaptation to cadmium and copper in *Daphnia* clones resurrected from metal contaminated lake sediments.
- M. A. Rogalski.** Water chemistry trumps eutrophication status and regional factors in shaping aquatic community structure.

Research Grants

Funding to date: \$24,800

2013	Sigma Xi, Grant-In Aid of Research Award (\$500)
2012	Yale Institute for Biospheric Sciences, Dissertation Improvement Grant (\$5,000)
2012	Society of Wetland Scientists General Endowment Research Award (\$1,000)
2012	American Society of Naturalists Student Research Award Honorable Mention
2011	American Museum of Natural History, Theodore Roosevelt Memorial Grant (\$2,000)
2010	Yale Institute for Biospheric Studies, Field Ecology Pilot Grant (\$2,000)
2009	Yale Institute for Biospheric Studies, School of Forestry Pilot Grant (\$5,000)
2008	Norcross Wildlife Foundation, A. V. Stout Grant (\$3,000)
2008	Yale University, Carpenter-Sperry Research Grant (\$3,300)
2008	Sigma Xi, Grant-In-Aid of Research Award (\$500)
2007	Arlington County, VA, Natural and Human History Research Grant (\$800)

Competitive Fellowships & Scholarships

2008	Virginia Federation of Garden Clubs Scholarship (\$1,500)
2008	National Garden Club, Inc. Scholarship (\$3,500)
2002	NSF Research Experience for Undergraduates Internship (\$3,500)
2001	College of William and Mary, Wilson Scholarship for Independent Study (\$1,500)

Teaching and Mentoring Experience

- 2013 - 2015 **Certificate of College Teaching Preparation**, Yale University
Completed a comprehensive training program in college teaching, involving training in fundamentals of teaching, course and syllabus design, teacher observations as well as 8 advanced teaching workshops
- 09/2014 **Guest lecturer**, Providence College, RI
Delivered a lecture on zooplankton ecology for Dr. Jonathan Richardson's freshwater biology undergraduate course
- 2008 - 2014 **Teaching Fellow**, Yale University,
Undergraduate courses: Introduction to Evolution (BIOL 104), Introduction to Statistics for the Life Sciences (STAT 101/105), Principles of Evolution, Ecology and Behavior (E&EB 122), and Ecology and Conservation (EVST 262/ F&ES 262)
Graduate courses: Doctoral Student Seminar (F&ES 900), Landscape Ecology (F&ES 500/E&EB 665)
- 2012 **Guest educator**, Project CLEAR, Candlewood Lake, Danbury, CT
Assisted in teaching high school students about zooplankton ecology, field collection and taxonomy as part of a summer education and research program focusing on protection and restoration of Candlewood Lake
- 2011 - 2015 **Women in Science at Yale mentor**
One-on-one mentor to four Yale undergraduate women and one master's student
- 2010, 2014 **Mentor for New Haven Science Fair**, New Haven Public Schools, New Haven, CT
Helped groups of middle school age children plan, implement and present projects for the city science fair
- 2008, 2010 **Undergraduate Student Supervisor**, Yale University
2008 Rob Culliton, B.S. Economics, Environmental Studies, Brown University (2011)
2008 Gabrielle Antonioli, B.S. Biology, Montana State University (2012)
2010 Mary Labowsky, B.S. Biology, Yale University (2012)
2010 Geoff Giller, B.S. Biology, Amherst College (2010)
2010 Samantha Attwood, B.S. Biology, Yale University (2012)
- 2003 **Adult Education Teacher; Substitute Teacher** (preschool - grade 12)
Williamsburg / James City County Schools, Virginia

Presentations at Scientific Conferences

Talks

- M. A. Rogalski**, June, 2014. Tainted resurrection: Metal pollution is linked with high juvenile mortality in *Daphnia* egg banks. Oral Presentation. Evolution, Raleigh, NC.
- M. A. Rogalski**, D. K. Skelly, P. Leavitt, May, 2014. Nutrient loading, heavy metal contamination and ecological community shifts over the past century in four Connecticut lakes. Oral Presentation. Joint Aquatic Science Meeting, Portland, OR.
- M. A. Rogalski**, August, 2012. *Daphnia* community responses to trace metal pollution and eutrophication. Oral presentation, International Paleolimnology Symposium, Glasgow, Scotland.
- M. A. Rogalski**, August, 2011. The influence of land use on pond chemistry and community structure: A question of spatial scale. Oral presentation, Ecological Society of America, Austin, TX.
- M. A. Rogalski**, D. K. Skelly. September, 2010. Friend or foe? Positive effects of invasive *Phragmites australis* on a native amphibian. Oral presentation, Connecticut Conference on Natural Resources, Storrs, CT.
- M. A. Rogalski**, D. K. Skelly. August, 2009. Impacts of nonnative *Phragmites australis* (common reed) on a native amphibian. Oral presentation, Ecological Society of America, Albuquerque, NM.

Poster

- M. A. Rogalski**. September, 2009. Ecological and evolutionary responses to anthropogenic environmental changes in wetland metacommunities. Poster presentation, Resurrection Ecology Symposium, hosted by Eawag and ETH Zurich, Herzberg, Switzerland.

Invited Presentations

- M. A. Rogalski**, October, 2015. Tainted resurrection: *Daphnia* phenotypic responses to historic metal contamination. University of Michigan, Department of Ecology and Evolutionary Biology Seminar, Ann Arbor, MI.
- M. A. Rogalski**, June, 2014. Pollution and ecological responses over the past century in four Connecticut lakes, New England Chapter, North American Lake Management Society Conference, Storrs, CT.
- M. A. Rogalski**, May, 2014. Pollution and ecological responses in four Connecticut lakes. The Last Green Valley, Water Quality Subcommittee Meeting, Danielson, CT.
- M. A. Rogalski**, March, 2012. History of Alexander Lake plankton communities, Alexander Lake Association Annual Meeting, Danielson, CT.
- M. A. Rogalski**, D. K. Skelly. June, 2009. Adapting to invasives: Impacts of *Phragmites* on native bullfrogs. Yale Myers Forest Summer Research Seminar, Union, CT.

Service

Professional Service

2010-present **Journal Referee**, *Nature Climate Change, Ecology and Evolution, Evolutionary Applications, Functional Ecology, Polar Biology*

University Service & Leadership

2011-2015 Women in Science at Yale (WISAY), undergraduate student mentor

2010 Yale School of Forestry Doctoral Student Research Conference co-organizer

Professional Membership

Ecology Society of America

American Society of Limnology and Oceanography

American Naturalist Society