

Curriculum Vitae – Timothy M. Swartz

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EDUCATION

M.S. *in progress*; University of Illinois at Urbana-Champaign **Fall 2015 – Present**

- Natural Resources and Environmental Sciences

B.S. *Magna cum laude*; Messiah College, Mechanicsburg, PA **Fall 2011 – Spring 2015**

- Biology (major), Ecology (concentration)

RESEARCH EXPERIENCE

Graduate Fellow, University of Illinois at Urbana-Champaign **Aug. 2015 – Present**

- **Advisor:** Jim Miller, Ph.D.
- **Thesis Title:** Local and landscape factors affecting amphibian communities in human-constructed wetlands

Undergraduate Departmental Honors Research, Messiah College **Spring 2014 – Spring 2015**

- **Advisor:** Erik Lindquist, Ph.D.
- **Thesis Title:** Testing a rapid assessment protocol for the conservation of vernal pool amphibians

PROFESSIONAL EXPERIENCE

Field Technician, University of Illinois at Urbana-Champaign **Jul. 2015**

- Assisted in arthropod and vegetation sampling as well as avian surveys and nest searching

Ecological Program Specialist Intern, Pennsylvania Dept. of Conservation and Natural Resources **Feb. – Jun. 2015**

- Conducted environmental reviews, site mapping, and field surveys for birds, amphibians and reptiles

Owl Banding Intern, Ned Smith Center for Nature and Art **Fall 2014**

- Assisted in mist-netting and banding of migrating Northern Saw-whet Owls

Animal Care Assistant, Messiah College **Aug. 2012 – Feb. 2015**

- Responsible for daily care of a variety of mammals, reptiles, and amphibians

TEACHING AND MENTORSHIP

Undergraduate Teaching Assistant, Messiah College

- Courses: Animal Form and Function (January 2012) and Herpetology (Spring 2015)
- Facilitated field trips and lab activities; assisted with grading and lab preparation

Mentorship of Undergraduates

- **Jenna Mattes**, B.S. expected May 2020 – Undergraduate Research Fellow (Fall 2017-Present)
- **Other Undergraduate Mentees:** Undergraduate Researchers Initiative students (2), undergraduate field interns (3)

PUBLICATIONS

Swartz, TM and JR Miller. *In review*. Trapping amphibians and their predators: tradeoffs in trap design and performance. *Herpetological Review*.

- Nelson, SB, JJ Coon, CJ Duchardt, JD Fischer, SJ Halsey, AJ Kranz, CM Parker, SC Schneider, **TM Swartz**, and JR Miller. **2017**. Patterns and mechanisms of invasive plant impacts on North American birds: a systematic review. *Biological Invasions*. 19(5): 1547-1563.
- Swartz, TM** and JR Miller. **2016**. Geographic distribution: *Pseudacris crucifer*. *Herpetological Review*. 47(4): 624.
- Swartz, TM** and JR Miller. **2016**. Geographic distribution: *Thamnophis radix*. *Herpetological Review*. 47(4): 632.
- Swartz, TM**, E Stuart, DK Foster, and ED Lindquist. **2016**. Testing Rapid-Assessment Models for the Conservation of Woodland Vernal Pools in South-central Pennsylvania. *Northeastern Naturalist*. 23(3):339-351.

PRESENTATIONS

- Swartz, TM** and JR Miller. 19 June 2017. *Farm Ponds Provide Habitat for Diverse Amphibian Communities*. Ten Years of Research in the Grand River Grasslands: Key Findings and New Directions, Graceland University, Lamoni, Iowa.
- Swartz, TM** and JR Miller. 11 February 2017. *Amphibian Communities of Human-constructed Ponds*. 19th Annual Symposium of the Graduates in Ecology and Evolutionary Biology at University of Illinois at Urbana-Champaign, Urbana, Illinois.
- Swartz, TM** and E Stuart. 1 May 2015. *Testing Rapid Assessment Tools for the Conservation of Vernal Pools in South-central Pennsylvania*. Poster and oral presentation at the 12th Annual School of Science, Engineering, and Health Symposium, Messiah College, Mechanicsburg, Pennsylvania.
- Swartz, TM** and E Stuart. November 2014. *Testing Rapid Assessment Tools for the Conservation of Vernal Pools in South-central Pennsylvania: preliminary results*. Fall Research Symposium of the School of Science, Engineering, and Health, Messiah College, Mechanicsburg, Pennsylvania.

RESEARCH SUPPORT

- Swartz, TM**. 2017. A Bird's-eye View of Frog Habitats: Using a Drone to Survey Wetlands. Crowd-funding project through *Experiment.com*, \$635
- Swartz, TM** and JR Miller. 2017. Defining the Role of Human-Constructed Ponds in Conserving Amphibian Communities. Iowa Department of Natural Resources Small Grants Program, \$2133
- Capozzelli, JF, **TM Swartz**. 2017. Practical experience applying prescribed fire to manage grasslands. NRES Educational Opportunity Grant, \$1050
- Coon, JJ, **TM Swartz**, and JF Capozzelli. 2016. Biomass sampling in the Grand River Grasslands: determining the effects of stocking rate on vegetation remaining after the growing season. NRES Educational Opportunity Grant, \$1200
- Swartz, TM**. 2016 The Impact of Prairie Management Practices on Blanchard's Cricket Frog. Prairie Biotic Research, Inc. Small Grants Program, \$1000
- Swartz, TM** and ED Lindquist. 2014. Testing a Rapid Assessment Model for Conserving Woodland Vernal Pools. Steinbrecher Undergraduate Research Program, \$3800

HONORS AND AWARDS

- Garden Club of Downers Grove Graduate Scholarship **2017**
- Jonathan Baldwin Turner Graduate Fellowship, College of ACES, UIUC **2015 – 2017**
- Who's Who Among Students in American Universities & Colleges **2015**
- Rotary International Student-of-the-Month **Jan. 2013**
- President's Scholarship, College Honors Program, Messiah College **2011 – 2015**

LEADERSHIP AND SERVICE

Restoration House Member and Leader, Messiah College

Aug. 2012 – Dec. 2014

- Sustainability-oriented housing unit focused on outreach and education of fellow students. As house leader (Fall 2014), organized meetings and coordinated outreach events

International Service Trip Student Leader, Messiah College

Mar. 2013, 2014

- Led two week-long trips to Torotoro, Bolivia to conduct environmental water quality tests and report findings. Responsibilities included interviewing prospective team members, guiding reflections and discussions, and planning water testing activities

Service Learning Trip Leader, Messiah College

Spring 2012, 2013

- Led weekly trips to the Joshua Farm, a sustainable urban farm. Duties included facilitating discussions with participants about food security, sustainability, and agriculture.

SOFTWARE AND OTHER SKILLS

- Microsoft Office Suite, ArcGIS, R, Program MARK, and Program Presence
- Federal Aviation Administration Certified Remote Pilot for Unmanned Aerial Vehicles
- Proficient in written and oral Spanish

PROFESSIONAL AFFILIATIONS

- Society for the Study of Amphibians and Reptiles
- International Association of Landscape Ecologists
- Society of Wetland Scientists