

**Amanda E. Haponski**

Great Lakes Genetics Lab and Ph.D. Candidate

Lake Erie Center and Department of Environmental Sciences, University of Toledo, 6200 Bayshore Rd.  
Oregon, OH 43616, (419) 530- 8370, [amanda.haponski@utoledo.edu](mailto:amanda.haponski@utoledo.edu), <http://lakeerie.utoledo.edu>

**PROFESSIONAL PREPARATION**

- Ph.D. University of Toledo, Biology (Ecology track); 2008-present; GPA – 3.93; dissertation:  
“Evolution and population genetic structure of walleye *Sander vitreus*: Insights into a century of exploitation”
- M.S. University of Toledo, Biology (Ecology track); 2007; GPA – 3.94; thesis: “Molecular, morphological, and biogeographic resolution of cryptic taxa in the greenside darter *Etheostoma blennioides* complex”
- B.S. University of Maine at Machias, Marine Biology (biological concentration & chemistry minor; Magna Cum Laude); 2005; GPA – 3.57

**APPOINTMENTS**

- 2004-present Research and Teaching assistant, Lake Erie Center and Department of Environmental Sciences, University of Toledo
- 2008-2010 National Science Foundation GK-12 Fellow, University of Toledo  
Graduate Teaching Fellows in STEM High School Education: An Environmental Science Learning Community at the Land-Lake Ecosystem Interface. NSF #DGE-0742395
- Summer 2004 Research assistant, NSF Research Experiences for Undergraduates, Cleveland State University, NSF #DBI-0243878

**PUBLICATIONS**

- Stepien, C.A. and **A.E. Haponski**. 2010. Systematics of the greenside darter *Etheostoma blennioides* complex: Consensus from nuclear and mitochondrial DNA sequences. *Molecular Phylogenetics and Evolution*. 57:434-447. doi:10.1016/j.ympev.2010.06.017 (supported in part by NSF REU #DBI-0243878 and NSF GK-12 #DGE-0742395)
- Stepien, C.A., D.J. Murphy, R.N. Lohner, **A.E. Haponski**, and O.J. Sepulveda-Villet. 2010. Status and delineation of walleye genetic stock structure across the Great Lakes. In Status of walleye in the Great Lakes: proceedings of the 2006 symposium. *Great Lakes Fishery Commission Technical Report 69* pp. 189-223.
- Haponski, A.E.**, T. Bollin, M. Jedlicka, and C.A. Stepien. 2009. Genetic divergence patterns of the rainbow darter *Etheostoma caeruleum*: A watershed analysis using mitochondrial DNA sequences and nuclear microsatellites. *Journal of Fish Biology*. 75:2244-2268 doi:10.1111/j.1095-8649.2009.02414.x (supported in part by NSF REU #DBI-0243878).
- Stepien, C.A., D.J. Murphy, R.N. Lohner, O.J. Sepulveda-Villet, and **A.E. Haponski**. 2009. Signatures of vicariance, postglacial dispersal, and spawning philopatry: Population genetics of the walleye *Sander vitreus*. *Molecular Ecology*. 18:3411-3428. doi: 10.1111/j.1365-294X.2009.04291.x (supported by NOAA Sea Grant R/LR-13 & contributions of Ph.D. students by NSF GK-12 #DGE-0742395).
- Haponski, A.E.** and C.A. Stepien. 2008. Molecular, morphological, and biogeographic resolution of cryptic taxa in the greenside darter *Etheostoma blennioides* complex. *Molecular Phylogenetics and Evolution*. 49:69-83. doi:10.1016/j.ympev.2008.07.013 (supported in part by NSF REU #DBI-0243878).
- Haponski, A.E.**, T.A. Marth, and C.A. Stepien. 2007. Genetic divergence across a low-head dam: A preliminary analysis using logperch and greenside darters. *Journal of Great Lakes Research*. 33:117–126. doi:10.3394/0380-1330(2007)33[117:GDAALD]2.0.CO;2 (supported in part by NSF REU #DBI-0243878).

**PRESENTATIONS (5 most recent)**

- 2011 The genetics of walleye spawning in Lake Erie: Temporal and spatial patterns. International Association for Great Lakes Research, Duluth, MN.

- 2011 The genetics of walleye spawning in Lake Erie: Temporal and spatial patterns. Midwest Graduate Student Symposium, Toledo, OH.
- 2011 The genetics of walleye spawning in Lake Erie: Temporal and spatial patterns. Ohio Fish and Wildlife Management Association. Columbus, OH
- 2011 The genetics of walleye spawning in Lake Erie: Temporal and spatial patterns. Ohio State Research Review, Columbus, OH.
- 2010 Temporal and spatial patterns of genetic connectivity and divergence among Lake Erie walleye (*Sander vitreus*) spawning groups. Lake Erie Millenium Network, Windsor, ON.

**AWARDS**

- Norman S. Baldwin Fishery Science Scholarship; 2010 for the project entitled “Spatial and temporal population genetic relationships of walleye: Implications for conservation biology and fishery management”
- Smithsonian Institution Fellowship to the National Museum of Natural History; summer 2009 for the project entitled “Systematic, biogeographic, genetic, and morphological relationships of the genus *Sander* (Percidae: Teleostei)”
- DeepFin Student Exchange Program Travel Award; 2008 for the project entitled “Systematic, biogeographic, genetic, and morphological relationships of the genus *Sander* (Percidae: Teleostei)”
- Janice Lee Fenske Memorial Award Finalist for the Midwest Fish and Wildlife Conference; 2008
- International Association for Great Lakes Research Scholarship; 2008
- Sigma Xi Scientific Research Society Grants-in-Aid of Research; 2008 for the project entitled “50 Years of Population Genetic History of Walleye and Yellow Perch”
- Maine Water Conference’s best undergraduate poster presentation; 2005

**GRADUATE ADVISOR**

Dr. Carol Stepien, Professor of Ecology and Director of the Lake Erie Center, University of Toledo

**PROFESSIONAL MEMBERSHIPS**

International Association of Great Lakes Research

**SYNERGISTIC ACTIVITIES**

- 2010 Presented a special report to The Lake Erie Basin Committee on the genetics of invasive species and Lake Erie fisheries.
- 2010 Presented to two general biology classes at Roy C. Start High School on the real world applications of genetics and environmental sciences.
- 2008-2010 Mentored student science fair projects as well as teaching students how to collect, analyze, and interpret data at the Toledo Early College High School.
- 2007-2009 Participated in a National Science Foundation Research Experiences for Teachers grant (RET) by mentoring a high school teacher (Mr. Tim Bollin) on genetic techniques, including sample collection, DNA extraction, amplification, purification, and sequencing.
- 2007-2009 Vice President of the Department of Environmental Sciences Graduate Student Association
- 2007-2009 Co-Chair of the Graduate Student Committee for the International Association for Great Lakes Research 2009 Conference. Responsible for coordinating graduate student activities and organizing graduate student workshops on how to get a job, build a resume, and how to succeed in graduate school for the conference
- 2007 Toledo Early College High School Sampling Demonstration  
Sampled Ten Mile Creek at Harroun Park with Mr. Tim Bollin’s class and showed them appropriate field techniques and also helped them to identify the stream fishes present.
- 2007 Celebrate Our River Week  
Sampling demonstration in the Ottawa River for members of the Press, Professors and Students of the University of Toledo.