ALAN ELLIOTT WILSON

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EDUCATION

Georgia Institute of Technology - Atlanta, Georgia; Advisor: Dr. Mark E. Hay
2006 - Ph.D., Applied Biology; Minor in Chemical Ecology
Dissertation: *Cyanobacteria-grazer interactions: Consequences of toxicity, morphology, and genetic diversity*
Michigan State University - East Lansing, Michigan; Advisor: Dr. Orlando "Ace" Sarnelle
2001 - M.S., Fisheries and Wildlife; Specialization in Ecology, Evolutionary Biology, and Behavior
Thesis: *Complex interactions between zebra mussels and their planktonic prey*
University of North Carolina at Chapel Hill - Chapel Hill, North Carolina
1997 - B.A., Biology - Graduated with Distinction
Young Harris College - Young Harris, Georgia
1995 - A.S., Biology - Graduated with Highest Honors

PROFESSIONAL EXPERIENCE

Auburn University - Department of Fisheries and Allied Aquacultures
2007 - present Assistant Professor
University of Michigan at Ann Arbor - Cooperative Institute for Limnology and Ecosystems Research (CILER)
2006 - 2007 Postdoctoral research investigator

RESEARCH GRANTS AND AWARDS

CURRENT SUPPORT

2009 - 2013 NSF - Ecology program, collaborative project - $118,045 (Wilson, PI)
2009 - 2013 NSF - Ecology program, collaborative project - $286,183 (Sarnelle, PI)
2008 - 2010 Auburn University Water Center - $500,000 (Deutsch, PI)
2008 - 2010 Auburn University AAES Hatch program - $50,000 (Wilson, PI)
2008 - 2010 Auburn University AAES Hatch program - $50,000 (Stoeckel, PI)

PAST SUPPORT

2007 - 2008 Auburn University AAES Agricultural Initiatives - $54,650 (Wilson, PI)
2007 - 2008 NCEAS Postdoctoral fellowship award - $40,500 (declined)
2006 - 2007 NOAA research awards - $43,114
2006 ASLO student travel award - $250
2003 - 2006 EPA STAR Graduate Research fellowship award - $102,000
2003 National Sea Grant Program grant - $13,000
2002 - 2003 NSF Integrative Graduate Education and Research Training Program awards - $6,715
2001 - 2002 Georgia Tech School of Biology Chemical Ecology fellowship award - $7,000
2000 Cooperative Institute for Limnology and Ecosystems Research grant - $9,100
1999 - 2000 NSF Research Training grants (Kellogg Biological Station, MSU) - $2,000
1999 - 2000 George H. Lauff scholarship awards (Kellogg Biological Station, MSU) - $1,750

HONORS

2007 - 2008 NCEAS Postdoctoral Fellow (declined)
2003 - 2006 EPA STAR Graduate Fellow (Georgia Tech)
2004 Most Outstanding Biology Graduate Student Award 2004 (Georgia Tech)
2002 - 2003 NSF Integrative Graduate Education and Research Training Fellow (Georgia Tech)
2001 - 2002 School of Biology Chemical Ecology Fellow (Georgia Tech)
1997 Phi Beta Kappa, national honor society (University of North Carolina at Chapel Hill)
1995 - 1996 Sonya Stone Academic Scholarship (University of North Carolina at Chapel Hill)

PUBLICATIONS (# DENOTES STUDENT AUTHOR)

16. **Wilson, A. E.**, R. B. Kaul#, and O. Sarnelle. 2010. Growth rate consequences of coloniality in a harmful phytoplankter. *PLoS ONE* 5(1): e8679. doi:10.1371/journal.pone.0008679
15. Sarnelle, O. and **A. E. Wilson**. 2008. Type III functional response in *Daphnia*. *Ecology* 89(6):1723-1732.
14. Tillmanns, A. R., **A. E. Wilson**, F. R. Pick, and O. Sarnelle**.** 2008. Meta-analysis of cyanobacterial effects on zooplankton population growth rate: species-specific responses. *Fundamental and Applied Limnology* 171(4):285-295.
13. **Wilson, A. E.**, D. C. Gossiaux, T. O. Höök, J. P. Berry, P. F. Landrum, J. Dyble, and S. J. Guildford. 2008. Evaluation of the human health threat associated with the hepatotoxin, microcystin, in the muscle and liver tissues of yellow perch (*Perca flavescens*). *Canadian Journal of Fisheries and Aquatic Sciences* 65(7):1487-1497.
12. Knoll, L. B., O. Sarnelle, S. K. Hamilton, C. E. H. Kissman, **A. E. Wilson**, J. B. Rose, and M. R. Morgan. 2008. Invasive zebra mussels (*Dreissena polymorpha*) increase cyanobacterial toxin concentrations in low-nutrient lakes. *Canadian Journal of Fisheries and Aquatic Sciences* 65(3):448-455.
11. **Wilson, A. E.** 2007. Journal impact factors are inflated. *BioScience* 57(7):550-551.
10. **Wilson, A. E.** and M. E. Hay. 2007. A direct test of cyanobacterial chemical defense: Variable effects of microcystin-treated food on two *Daphnia pulicaria* clones. *Limnology and Oceanography* 52(4):1467-1479.
9. **Wilson, A. E.**, W. A. Wilson#, and M. E. Hay. 2006. Intraspecific variation in growth and morphology of the bloom-forming cyanobacterium, *Microcystis aeruginosa*. *Applied and Environmental Microbiology* 72(11):7386-7389.
8. **Wilson, A. E.**, O. Sarnelle, and A. R. Tillmanns. 2006. Effects of cyanobacterial toxicity and morphology on the population growth of freshwater zooplankton: Meta-analyses of laboratory experiments. *Limnology and Oceanography* 51(4):1915-1924.
7. **Wilson, A. E.**, O. Sarnelle, B. A. Neilan, T. P. Salmon, M. M. Gehringer, and M. E. Hay. 2005. Genetic variation of the bloom-forming cyanobacterium *Microcystis aeruginosa* within and among lakes: Implications for harmful algal blooms. *Applied and Environmental Microbiology* 71(10):6126-6133.
6. Sarnelle, O. and **A. E. Wilson**. 2005. Local adaptation of *Daphnia pulicaria* to toxic cyanobacteria. *Limnology and Oceanography* 50(5):1565-1570.
5. Sarnelle, O., **A. E. Wilson**, S. K. Hamilton, L. B. Knoll, and D. F. Raikow. 2005. Complex interactions between the zebra mussel, *Dreissena polymorpha*, and the harmful phytoplankter, *Microcystis aeruginosa*. *Limnology and Oceanography* 50(3):896-904.
4. Hay, M. E., J. D. Parker, D. E. Burkepile, C. C. Caudill, **A. E. Wilson**, Z. P. Hallinan, and A. D. Chequer. 2004. Mutualisms and aquatic community structure: The enemy of my enemy is my friend. *Annual Review of Ecology, Evolution, and Systematics* 35:175-197.
3. Raikow, D. F., O. Sarnelle, **A. E. Wilson**, and S. K. Hamilton. 2004. Dominance of the noxious cyanobacterium *Microcystis aeruginosa* in low-nutrient lakes is associated with exotic zebra mussels. *Limnology and Oceanography* 49(2):482-487.
2. **Wilson, A. E.** 2003. Effects of zebra mussels on phytoplankton and ciliates: A field mesocosm experiment. *Journal of Plankton Research* 25(8):905-915.
1. **Wilson, A. E.** and O. Sarnelle. 2002. Relationship between zebra mussel biomass and total phosphorus in European and North American lakes. *Archiv für Hydrobiologie* 153(2):339-351.

REVIEWING ACTIVITIES

FUNDING AGENCIES

National Science Foundation (panel: Ecological Biology DDIG; proposals: Ecological Biology, Ecosystem Science), Ecology Netherlands Organisation for Scientific Research, Oklahoma Water Resources Research Institute

JOURNALS

Ecological Monographs, *Limnology and Oceanography*, *PLoS ONE*, *Environmental Microbiology*, *Freshwater Biology*, *Journal of Plankton Research*, *Marine Ecology Progress Series*, *Oikos*, *Water Research*, *Journal of Experimental Marine Biology and Ecology*, *African Journal of Aquatic Science*, *Aquatic Ecology*, *Archiv für Hydrobiologie*, *Biochemical Systematics and Ecology*, *Cell Biology and Toxicology*, *Ecotoxicology and Environmental Safety*, *Harmful Algae*, *Hydrobiologia*, *Journal of Applied Microbiology*, *Marine Drugs*