

# 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

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## PROFESSIONAL EXPERIENCES

Auburn University - Department of Biological Sciences  
2010 - present Assistant Professor (courtesy joint appointment)  
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

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## RESEARCH GRANTS AND AWARDS (Total \$2,424,341; External \$1,444,262; Declined \$40,500)

### *CURRENT SUPPORT*

2011 - 2014 USGS - National Institutes for Water Resources - \$247,891 (Wilson, PI)  
2011 - 2013 Great Lakes Fisheries Trust - \$385,000 (Höök, PI; Wilson, co-PI)  
2010 - 2013 NSF - Research Experiences for Undergraduates program - \$292,141 (Wilson, PI)  
2010 - 2012 Auburn University AAES Hatch program - \$50,000 (Wilson, PI)  
2010 - 2012 Auburn University AAES Hatch program - \$50,000 (Wang, PI; Wilson, co-PI)  
2009 - 2013 NSF - Ecology program, collaborative project - \$113,578 (Wilson, PI)  
2009 - 2013 NSF - Ecology program, collaborative project - \$286,183 (Sarnelle, PI; Wilson, co-PI)

### *PAST SUPPORT*

2011 NSF - Ecology program, REU supplement - \$7,500 (Wilson, PI)  
2010 - 2011 NSF - Major Research Instrumentation RAPID program - \$100,002 (Moss, PI; Wilson, co-PI)  
2010 NSF - Ecology program, REU supplement - \$7,500 (Wilson, PI)  
2009 - 2010 NSF - Ecology program, RAHSS supplement - \$4,467 (Wilson, PI)  
2008 - 2010 Auburn University Water Center - \$500,000 (Deutsch, PI; Wilson, co-PI)  
2008 - 2010 Auburn University AAES Hatch program - \$50,000 (Wilson, PI)  
2008 - 2010 Auburn University AAES Hatch program - \$50,000 (Stoeckel, PI; Wilson, co-PI)  
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

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## **HONORS**

2010 Alabama Agricultural Experiment Station Director's Junior Faculty Research Award (*this award is the highest Auburn University honor available to an assistant professor in my college*)  
2010 College of Agriculture Dean's Grantsmanship Award (Auburn University)  
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)  
1995 Presidential Scholar Award (Young Harris College)  
1994 Phi Theta Kappa, national honor society (Young Harris College)

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## **STUDENT HONORS AND AWARDS (Total \$137,150)**

2011 - 2014	Michael Chislock	EPA STAR Graduate Fellowship	\$126,000
2011 - 2012	Vernon Anderson	AU Undergraduate Research Fellow award	\$6,000
2011	Michael Chislock	AU Most Outstanding Masters Student award	not applicable
2011	Michael Chislock	AU Graduate student travel grant	\$500
2011	Michael Chislock	ASLO student travel grant	\$500
2011	Michael Chislock	AFS student travel grant	\$100
2011	Michael Chislock	AU FAA Graduate student travel grant	\$250
2010	Michael Chislock	AU Graduate student travel grant	\$300
2009	Michael Chislock	AU Graduate student research grant	\$1,000
2009	RajReni Kaul	AU Graduate student research grant	\$1,000
2009	RajReni Kaul	Alabama Fisheries Association student grant	\$500
2008	Michael Chislock	Sigma Xi Grants-in-Aid of Research grant	\$1,000

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## **PUBLICATIONS (# STUDENT AUTHOR)**

- Logan, S. W., L. E. Robinson, **A. E. Wilson**, and W. A. Lucas. 2011. Getting the fundamentals of movement: A meta-analysis of the effectiveness of motor skill interventions in young children as assessed by the test of gross motor development. *Child: Care, Health & Development* doi:10.1111/j.1365-2214.2011.01307.x
- White, J. D., R. B. Kaul#, L. B. Knoll, **A. E. Wilson**, and O. Sarnelle. 2011. Large variation in vulnerability to grazing within a population of the colonial phytoplankter, *Microcystis aeruginosa*. *Limnology and Oceanography* 56(5):1714-1724.
- Berry, J., E. Lee, K. Walton, **A. E. Wilson**, and F. Bernal-Brooks. 2011. Microcystin production by a persistent cyanobacterial bloom in Lago de Patzcuaro (Michiacan, Mexico) and apparent bioaccumulation of the toxin in small commercial catches of fish. *Environmental Toxicology and Chemistry* 30(7):1621-1628.
- 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
- Sarnelle, O. and **A. E. Wilson**. 2008. Type III functional response in *Daphnia*. *Ecology* 89(6):1723-1732.
- 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.
- 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 pulex* 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 pulex* 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 phytoplankton, *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.

#### **INVITED RESEARCH PRESENTATIONS**

- 2011 XIII Brazilian Meeting of Limnology. Natal, Brazil.  
 Florida Atlantic University, Boca Raton, Florida.  
 The Evergreen State College, Environmental Studies. Olympia, Washington.  
 Olympia Film Society, Environmental Movie Festival. Olympia, Washington.  
 Southeastern Ecology and Evolution Conference, Keynote, Auburn University. Auburn, Alabama.
- 2010 University of Notre Dame, Department of Biological Sciences. South Bend, Indiana.  
 Tuskegee University, Department of Agricultural Sciences. Tuskegee, Alabama.  
 University of West Alabama, Department of Biological Sciences. Livingston, Alabama.
- 2009 Purdue University, Department of Forestry and Natural Resources. West Lafayette, Indiana.  
 Auburn University, Department of Biological Sciences. Auburn, Alabama.
- 2008 University of Georgia, Odum School of Ecology. Athens, Georgia.
- 2007 University of Miami, Rosenstiel School of Marine and Atmospheric Science. Miami, Florida.  
 Florida International University, Department of Biological Sciences. Miami, Florida.  
 Michigan State University, Kellogg Biological Station. Hickory Corners, Michigan.  
 Grand Valley State University, Annis Water Resources Institute. Muskegon, Michigan.  
 Auburn University, Department of Fisheries and Allied Aquacultures. Auburn, Alabama.
- 2006 NOAA Great Lakes Environmental Research Laboratory. Ann Arbor, Michigan.  
 University of Waterloo, School of Biology. Waterloo, Ontario.  
 Georgia Institute of Technology, IGERT Signals in the Sea seminar series. Atlanta, Georgia.