

# ALAN E. WILSON

Auburn University  
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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 - School of Fisheries, Aquaculture, and Aquatic Sciences  
2020 - present Assistant Director for Instruction/Extension/Outreach, Professor, & Graduate Program Officer  
Auburn University - School of Fisheries, Aquaculture, and Aquatic Sciences  
2019 - 2020 Professor & Graduate Program Officer  
Auburn University - School of Fisheries, Aquaculture, and Aquatic Sciences  
2013 - 2019 Associate Professor  
National Science Foundation - Population and Community Ecology program, Division of Environmental Biology  
2014 - 2016 Program Director  
University of North Carolina at Chapel Hill - Global Research Institute  
2013 Fellow  
Auburn University - Department of Biological Sciences  
2010 - 2013 Assistant Professor (courtesy joint appointment)  
Auburn University - School of Fisheries, Aquaculture, and Aquatic Sciences  
2007 - 2013 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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## **GRANTS, CONTRACTS, AND AWARDS (Total \$9,035,578; External \$8,000,774; Awarded but Declined \$40,500; Wilson's role in each project is listed as well as PI if led by a colleague)**

### *CURRENT SUPPORT*

2021 - 2022 USGS - Alabama Water Resources Institute - \$25,000 (Wang, PI; Wilson, co-PI)  
2020 - 2025 USDA ARS - \$535,000 (Wilson, PI)  
2020 - 2024 USDA NIFA - Energy and Environment program - \$434,658 (Higgins, PI; Wilson, co-PI)  
2018 - 2023 NSF - Dimensions of Biodiversity - \$1,999,994 (Hambright, lead institution PI; Wilson, PI of Auburn portion \$379,121)

2017 - 2021 NSF - Research Experiences for Undergraduates program - \$358,834 (Wilson, PI)  
2016 - 2021 NSF - S-STEM program - \$2,099,650 (Jenda, PI; Wilson, co-PI)  
2019 - 2021 AU-OUC Joint Center - \$74,575 (Wilson, PI)  
2016 - 2021 NSF - INCLUDES program - \$285,769 (Jenda, PI; Wilson, co-PI)

#### *PAST SUPPORT*

2017 - 2020 USDA-NIFA Aquaculture program - \$261,613 (Wilson, PI; Roy, co-PI)  
2017 - 2019 Birmingham Water Works Board contract - \$57,720 (Wilson, PI)  
2018 NSF supplement - Research Experiences for Undergraduates program - \$13,909 (Wilson, PI)  
2016 - 2018 Auburn University - AAES AgR-SEED program - \$50,000 (Wilson, PI)  
2017 AU-OUC Joint Center - \$75,000 (Wilson, PI)  
2015 - 2016 Sha'Ked Microbial contract - \$19,475 (Wilson, PI)  
2014 - 2016 NSF Intergovernmental Personnel Act contract - \$242,605 (Wilson, PI)  
2011 - 2015 USGS - National Institutes for Water Resources - \$247,891 (Wilson, PI)  
2014 - 2015 Sha'Ked Microbial contract - \$36,685 (Wilson, PI)  
2011 - 2014 Great Lakes Fishery Trust - \$385,000 (Höök, PI; Wilson, co-PI)  
2013 - 2014 Auburn University - Competitive Outreach Scholarship grant - \$20,000 (Goodwin, PI; Wilson, co-PI)  
2010 - 2014 NSF - Research Experiences for Undergraduates program - \$292,141 (Wilson, PI)  
2009 - 2014 NSF - Ecology program, collaborative project - \$113,578 (Wilson, PI)  
2009 - 2014 NSF - Ecology program, collaborative project - \$286,183 (Sarnelle, PI; Wilson, co-PI)  
2013 - 2014 USGS - Alabama Water Resources Institute - \$15,000 (Wilson, PI)  
2012 NSF - Ecology program, RAHSS supplement - \$5,750 (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)  
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 program - \$54,650 (Wilson, PI)  
2007 - 2008 NCEAS Postdoctoral fellowship award - \$40,500 (awarded but 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**

2020 College of Agriculture Dean's Grantsmanship Award (Auburn University)  
2019 College of Agriculture Outstanding Commitment to Diversity Award (Auburn University)  
2019 College of Agriculture Outstanding Publication Award (Auburn University)  
2019 College of Agriculture Academy of Fellows (Auburn University)  
2018 USDA Food and Agriculture Sciences Excellence in Teaching Award - southeastern US region  
2018 College of Agriculture High Impact Paper of the Year Award (Auburn University)  
2018 College of Agriculture Dean's Grantsmanship Award (Auburn University)

2017	Fellow, Association for the Sciences of Limnology and Oceanography (ASLO)
2017	College of Agriculture Dean's Award for Excellence in Instruction (Auburn University)
2017	College of Agriculture Dean's Grantsmanship Award (Auburn University)
2014	Auburn University Provost's Award for Excellence in Fostering Undergraduate Research and Creative Scholarship ( <i>this award is the highest honor at Auburn University related to the mentoring of undergraduate students in research</i> )
2014	Purdue University Scholar of Sustainability (awarded but declined)
2013	University of North Carolina at Chapel Hill Global Research Institute Fellow
2010	Alabama Agricultural Experiment Station Director's Junior Faculty Research Award
2010	College of Agriculture Dean's Grantsmanship Award (Auburn University)
2007 - 2008	NCEAS Postdoctoral Fellow (awarded but 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 \$411,078)**

2021 - 2024	Matt Gladfelter	AU Presidential Graduate Research Fellow	\$45,000
2021 - 2022	Tiffany Ramsey	AU Undergraduate Research Fellow award	\$4,400
2021	Matt Gladfelter	SFAAS MS-level Swingle Award	\$2,000
2020 - 2021	Madison Dees	AU Undergraduate Research Fellow award	\$3,300
2020	Matt Gladfelter	College of Agriculture Graduate Student Poster Showcase 1 <sup>st</sup> place MS poster presentation	\$250
2020	Riley Buley	College of Agriculture Graduate Student Poster Showcase 1 <sup>st</sup> place PhD poster presentation	\$250
2017 - 2020	Edna Fernandez	NSF GRFP Fellowship	\$138,000
2017 - 2020	Nadia Bowles	Tuskegee NSF MAKERS scholarship	\$22,500
2018 - 2019	LeeAnn Johnston	AU Undergraduate Research Fellow award	\$3,000
2019	Matthew Gladfelter	10 <sup>th</sup> US HAB Symposium student travel award	\$700
2019	Riley Buley	10 <sup>th</sup> US HAB Symposium student travel award	\$350
2019	Catie Adams	10 <sup>th</sup> US HAB Symposium student travel award	\$430
2017 - 2018	Mário Barros	Brazilian CAPES doctoral student fellowship	\$19,798
2018	Edna Fernandez	ASLO Science Communication Intern	\$12,000
2018	LeeAnn Johnston	Hydro Think Tank Group Competition - 2 <sup>nd</sup> prize	\$300
2017	Edna Fernandez	9 <sup>th</sup> US HABs Symposium - best poster	\$250
2017	Edna Fernandez	College of Agriculture Graduate Student Poster Showcase 2 <sup>nd</sup> place MS poster presentation	\$200
2017	Bettina Welz	DAAD RISE fellowship (German exchange program)	\$2,000
2017	Edna Fernandez	AL/MS American Water Works Assoc. scholarship	\$3,000
2017	Jess Choi	AU This is Research 3 <sup>rd</sup> place Science oral presentation	not applicable
2017	Edna Fernandez	SEC Campus Water Matters Group Competition	2 <sup>nd</sup> prize
2015	Brianna Olsen	Alabama Fisheries Association Best Oral Presentation	not applicable
2011 - 2014	Michael Chislock	EPA STAR Graduate Fellowship	\$126,000
2014	Anja Rebelein	DAAD RISE fellowship (German exchange program)	\$5,500
2014	Brianna Olsen	AU Graduate student thesis research grant	\$500
2014	Brianna Olsen	AU Graduate student travel grant	\$300
2013	Jo-Marie Kasinak	MidSouth Aquatic Plant Management Society Student Scholarship	\$2,000

2013	Jo-Marie Kasinak	Sigma Xi Grants-in-Aid of Research grant	\$600
2013	Jo-Marie Kasinak	AU Graduate student research grant	\$500
2013	Enrique Doster	AU Research Week 3 <sup>rd</sup> place STEM poster	not applicable
2013	Jo-Marie Kasinak	AU Outstanding Oral Presentation at Graduate Forum	not applicable
2012 - 2013	Enrique Doster	AU Undergraduate Research Fellow award	\$6,000
2012	Michael Chislock	SE NALMS conference best talk award	\$100
2012	Michael Chislock	AU Graduate student research grant	\$500
2012	Jo-Marie Kasinak	AU Graduate student research grant	\$500
2012	Michael Chislock	Harry Merriwether Outstanding student award	\$2,000
2012	Katie LeMay	Sigma Xi Grants-in-Aid of Research grant	\$400
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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### **BOOK CHAPTERS (# STUDENT AUTHOR)**

- Bullard, A., D. DeVries, **A. Wilson**, H. Kinnucan, P. Clement, G. Lockaby, and C. Newland. 2015. Science or snake oil: Scholarship and peer review in the digital age. Book chapter in *Auburn Speaks: On Cyber and the Digital Domain*. Published by Auburn University. pp. 201-211.
- Wilson, A. E.** and M. F. Chislock#. 2013. Ecological control of cyanobacterial blooms in freshwater ecosystems. Invited book chapter in *Cyanobacteria: Toxicity, ecology, and management*. Editor: A. Ferrão-Filho. Nova Science Publishers, Inc., New York. pp. 213-221.
- Vanderploeg, H. A., **A. E. Wilson**, T. H. Johengen, J. Dyble, O. Sarnelle, J. R. Leibig, S. D. Robinson, and G. P. Horst. 2013. The role of selective grazing by dreissenid mussels in promoting toxic *Microcystis* blooms and other changes in phytoplankton composition in the Great Lakes. Invited book chapter in *Quagga and Zebra Mussels: Biology, Impacts, and Control, Second Edition*. Editors: T. Nalepa and D. Schloesser. CRC Press, Boca Raton, Florida. pp. 509-524.

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### **PEER-REVIEWED PUBLICATIONS (# STUDENT AUTHOR)**

- Clark, A.#, B. Howell#, **A. E. Wilson**, and T. Schwartz. *In press*. Draft genomes for one *Microcystis*-resistant and one *Microcystis*-sensitive strain of the water flea, *Daphnia pulex*. *G3*
- Odom, S.#, H. Boso, S. Bowling, S. Cotner, C. Creech, A. G. Drake, S. Eddy, S. Fagbodun, S. Hebert, A. James, J. Just, J. R. St. Juliana, M. Shuster, S. Thompson, R. Whittington, B. Wills, **A. Wilson**, K. R. Zamudio, M. Zhong, and C. J. Ballen. *In press*. Meta-analysis of gender performance gaps in undergraduate natural science courses. *CBE-Life Sciences Education*
- Buley, R. P.#, H. E. Correia#, A. Abebe, T. B. Issa#, and **A. E. Wilson**. *In press*. Predicting microcystin occurrence in freshwater lakes and reservoirs: assessing environmental variables. *Inland Waters*
- Hyman, M.#, Q. Wang#, **A. E. Wilson**, S. Adhikari, and B. T. Higgins. 2021. Production of *Daphnia* zooplankton on wastewater-grown algae for sustainable conversion of waste nutrients to fish feed. *Journal of Cleaner Production* 310:127501.
- Valle-Pombrol, A. A. Comas-Gonzalez, D. Castro-Rodriguez, A. Garcia-Moya, and **A. E. Wilson**. *In press*. Planktonic cyanobacteria from the Abreus Reservoir, Cienfuegos, Cuba. *Pan-American Journal of Aquatic Sciences* 16(1)xx-xx.
- Chislock, M. F.#, B. K. Olsen#, J. J. Choi#, A. Abebe, T. L. Bleier#, and **A. E. Wilson**. 2021. Contrasting

- patterns of 2-methylisoborneol (MIB) vs. geosmin across depth in a drinking water reservoir are mediated by cyanobacteria and actinobacteria. *Environmental Science and Pollution Research* 28:32005-32014.
72. Fernandez-Figueroa, E. G.#, R. P. Buley#, M. U.G. Barros#, M. F. Gladfelter#, W. D. McClimans, and **A. E. Wilson**. *In press*. Carlson's trophic state index is a poor predictor of cyanobacterial dominance in drinking water reservoirs. *AWWA Water Science*.
  71. Buley, R. P.#, C. Adams#, A. P. Belfiore#, E. G. Fernandez-Figueroa#, M. F. Gladfelter#, B. Garner#, D. L. Straus, and **A. E. Wilson**. 2021. Field evaluation of seven products to control cyanobacterial blooms in aquaculture. *Environmental Science and Pollution Research* 28:29971-29983.
  70. Bird, G.#, **A. E. Wilson**, G. R. Williams, and N. B. Hardy. 2021. Parasites and pesticides act antagonistically on honey bee health. *Journal of Applied Ecology* 58(5):997-1005.
  69. Barros, M. U.G.#, J. I.R. Leitão, T. R.B.T. Aranha, S. Simsek, R. P. Buley#, E. G. Fernandez-Figueroa#, M. F. Gladfelter#, **A. E. Wilson**, and J. Capelo-Neto. 2020. Icyano: A cyanobacterial bloom vulnerability index for drinking water treatment plants. *Water Supply* 20(8):3517-3530.
  68. Clemente, A., **A. E. Wilson**, S. Oliveira, I. Menezes, A. Gois, and J. Capelo-Neto. 2020. The role of hydraulic conditions of coagulation and flocculation on the damage of cyanobacteria. *Science of the Total Environment* 740:139737.
  67. Guo, J.#, Y. Bao, R. Davis#, A. Abebe, **A. E. Wilson**, and D. A. Davis. 2020. Application of meta-analysis toward understanding the effect of adding a methionine hydroxy analog in the diet on growth performance and feed utilization of fish and shrimp. *Reviews in Aquaculture* 12:2316-2332.
  66. McCain, S., R. R. Sim, E. W. Howarth, S. Aschenbroich, S. G.M. Kirejczyk, B. McHale, C. Jerry, J. J. Kottwitz, **A. E. Wilson**, and R. McManamon. 2020. Myonecrosis and death due to presumed microcystin toxicosis in American white pelicans (*Pelecanus erythrorhynchos*). *Journal of Zoo and Wildlife Medicine* 51(2):407-415.
  65. Galkanda-Arachchige, H.#, **A. E. Wilson**, and D. A. Davis. 2020. Success of fishmeal replacement through poultry byproduct meal in aquaculture feed formulations: a meta-analysis. *Reviews in Aquaculture* 12:1624-1636.
  64. Powers, M. J.#, **A. E. Wilson**, K. R. Heine#, and G. E. Hill. 2020. The relative importance of various mate choice criteria in copepods. *Journal of Plankton Research* 42(1):19-30.
  63. Cook, K. V.#, C. Li, L. R. Krumholz, K. D. Hambright, H. W. Paerl, M. M. Steffen, **A. E. Wilson**, M. Burford, H.-P. Grossart, D. Hamilton, H. Jiang, A. Sukenik, D. Latour, E. Meyer, J. Padisák, B. Qin, R. M. Zamor, and G. Zhu. 2020. The global *Microcystis* interactome. *Limnology & Oceanography* 65:S194-S207.
  62. Ayipio, E.#, D. Wells, A. McQuilling, and **A. E. Wilson**. 2019. Comparisons between aquaponics and conventional hydroponic crop yields: a meta-analysis. *Sustainability* 11:6511.
  61. Barros, M. U.G.#, **A. E. Wilson**, J. I. R. Leitão, S. P. Pereira, R. P. Buley#, E. G. Fernandez-Figueroa#, and J. C. Neto. 2019. Environmental factors associated with toxic cyanobacterial blooms across 20 drinking water reservoirs in a semi-arid region of Brazil. *Harmful Algae* 86:128-137.
  60. McKenzie, B. A.#, **A. E. Wilson**, and S. Zohdy. 2019. *Aedes albopictus* is a competent vector of Zika virus. *PLoS ONE* 14(5):e0216794.
  59. David, K. T.#, **A. E. Wilson**, and K. M. Halanych. 2019. Sequencing disparity in the genomic era. *Molecular Biology and Evolution* 36(8):1624-1627.
  58. Chislock, M. F.#, O. Sarnelle, L. M. Jernigan#, V. R. Anderson#, A. Abebe, and **A. E. Wilson**. 2019. Consumer adaptation mediates top-down regulation across a productivity gradient. *Oecologia* 190:195-205.
  57. Chalkowski, K.#, **A. E. Wilson**, C. A. Lepczyk, and S. Zohdy. 2019. Who let the cats out? A meta-analysis on infectious disease risk in domestic cats (*Felis catus*) with outdoor access. *Biology Letters* 15:20180840. **(Significant press – New York Times, Newsweek, MSN, Yahoo; see all press at <https://royalsociety.altmetric.com/details/59128063>).**
  56. Heine, K. B.#, A. A. Abebe, **A. E. Wilson**, and W. R. Hood. 2019. Copepod respiration increases by 7% per one degree increase in temperature: a meta-analysis. *Limnology & Oceanography Letters* 4(3):53-61.
  55. Chislock, M. F.#, R. B. Kaul#, K. A. Durham#, O. Sarnelle, and **A. E. Wilson**. 2019. Eutrophication mediates rapid clonal evolution in *Daphnia pulex*. *Freshwater Biology* 64:1275-1283.
  54. Bird, G.#, C. Kaczvinsky#, **A. E. Wilson**, and N. B. Hardy. 2019. When do herbivorous insects compete? A phylogenetic meta-analysis. *Ecology Letters* 22:875-883. **(College of Agriculture Outstanding Publication Award)**
  53. Thurlow, C. M.#, M. A. Williams, M. A.#, A. Carrias#, C. Ran#, M. Newman#, J. Tweedie, E. Allison#, L.

- N. Jescovitch#, **A. E. Wilson**, J. Terhune, and M. R. Liles. 2019. *Bacillus velezensis* AP193 exerts probiotic effects in channel catfish (*Ictalurus punctatus*) and reduces aquaculture pond eutrophication. *Aquaculture* 503:347-356.
52. Wadsworth, P.#, **A. E. Wilson**, and W. C. Walton. 2019. A meta-analysis of growth rate in diploid and triploid oysters. *Aquaculture* 499:9-16.
51. Delaney, M. A.#, A. A. ArchMiller#, D. P. Delaney, **A. E. Wilson**, and E. J. Sikora. 2018. Fungicide effectiveness on soybean rust in the southeastern United States 2004-2014: a meta-analysis. *Sustainability* 10:1784.
50. **Wilson, A. E.**, J. L. Pollock#, I. Billick, C. Domingo, E. Fernandez-Figueroa#, E. Nagy, T. D. Steury, and A. Summers. 2018. Assessing science training programs: structured undergraduate research programs make a difference. *BioScience* 68(7):529-534. **(Editor's Choice) (College of Agriculture High Impact Paper of the Year Award)**
49. Yang, Z., R. P. Buley#, E. Fernandez-Figueroa#, M. Barros#, S. Rajendran#, and **A. E. Wilson**. 2018. Hydrogen peroxide treatment promotes chlorophytes over toxic cyanobacteria in a hyper-eutrophic aquaculture pond. *Environmental Pollution* 240:590-598.
48. Minasyan, A., C. Christophoridis, **A. E. Wilson**, S.-K. Zervou, T. Kaloudis, and A. Hiskia. 2018. Diversity of cyanobacteria and the presence of cyanotoxins in the epilimnion of Lake Yerevan (Armenia). *Toxicon* 150:28-38.
47. Baker, B. C.#, **A. E. Wilson**, and J. T. Scott. 2018. Phytoplankton N<sub>2</sub> fixation efficiency and its effects on harmful algal blooms. *Freshwater Science* 37(2):264-275.
46. **Wilson, A. E.**, M. F. Chislock#, Z. Yang, M. U. G. Barros#, and J. F. Roberts. 2018. Pond bank access as an approach for managing toxic cyanobacteria in beef cattle pasture drinking water ponds. *Environmental Monitoring and Assessment* 190:247.
45. Weaver, R. J.#, E. S. A. Santos, A. M. Tucker#, **A. E. Wilson**, and G. E. Hill. 2018. Carotenoid metabolism strengthens the link between feather coloration and quality. *Nature Communications* 9:73. **(Clarivate Analytics Web of Science Highly Cited Paper)**
44. Jameel, Y.#, S. Stein#, E. Grimm#, C. Roswell, **A. E. Wilson**, C. Troy, T. Höök, and G. Bowen. 2018. Physicochemical characteristics of a southern Lake Michigan river plume. *Journal of Great Lakes Research* 44:209-218.
43. Lyu, K.#, L. Zhang#, L. Gu#, X. Zhu#, **A. E. Wilson**, and Z. Yang. 2017. Cladoceran offspring tolerance to toxic *Microcystis* is promoted by maternal warming to toxic *Microcystis*. *Environmental Pollution* 227:451-459.
42. Olsen, B. K.#, M. F. Chislock#, A. Rebelein#, and **A. E. Wilson**. 2017. Nutrient enrichment and vertical mixing mediate two common off-flavors, 2-methylisoborneol and geosmin, in a drinking water reservoir. *Water Science & Technology: Water Supply* 17(2):500-507.
41. Olsen, B. K.#, M. F. Chislock#, and **A. E. Wilson**. 2016. Eutrophication mediates a common off-flavor compound, 2-methylisoborneol, in a drinking water reservoir. *Water Research* 92:228-234.
40. Ger, K. A., P. Urrutia-Cordero, P. C. Frost, L.-A. Hansson, O. Sarnelle, **A. E. Wilson**, and M. Lürling. 2016. The interaction between cyanobacteria and zooplankton in a more eutrophic world. *Harmful Algae* 54:128-144. **(Clarivate Analytics Web of Science Highly Cited Paper)**
39. Lyu, K.#, H. Guan#, C. Wu#, X. Wang#, **A. E. Wilson**, and Z. Yang. 2016. Maternal consumption of non-toxic *Microcystis* by *Daphnia magna* induces offspring tolerance to toxic *Microcystis* in offspring. *Freshwater Biology* 61(2):219-228.
38. Koch, R. E.#, **A. E. Wilson**, and G. E. Hill. 2016. The importance of carotenoid dose in supplementation studies with songbirds. *Physiological and Biochemical Zoology* 89(1):61-71.
37. Kollock, R. O., K. Games#, **A. E. Wilson**, and J. M. Sefton. 2016. Vehicle exposure and spinal musculature fatigue in military warfighters: a meta-analysis. *Journal of Athletic Training* 51(11):981-990.
36. Kollock, R. O., C. Andrews, A. Johnston, T. Elliott, **A. E. Wilson**, K. Games#, and J. M. Sefton. 2016. A meta-analysis to determine if lower extremity muscle strengthening should be included in military knee overuse injury prevention programs. *Journal of Athletic Training* 51(11):919-926.
35. Goessling, J. M.#, H. Kennedy, M. T. Mendonça, and **A. E. Wilson**. 2015. A meta-analysis of plasma corticosterone and heterophil:lymphocyte ratios – Is there conservation of physiological stress responses over time? *Functional Ecology* 29:1189-1196.
34. ArchMiller, A. A.#, E. F. Bauer#, R. E. Koch#, B. K. Wijayawardena#, A. Anil#, J. J. Kottwitz#, A. S.

- Munsterman#, and **A. E. Wilson**. 2015. Formalizing the definition of meta-analysis in *Molecular Ecology*. *Molecular Ecology* 24:4042-4051.
33. Kasinak, J.-M. E.#, C. J. Bishop#, R. A. Wright, and **A. E. Wilson**. 2015. Grass carp do not consume the nuisance benthic cyanobacterium, *Lyngbya wollei*. *Journal of Aquatic Plant Management* 53:74-80.
  32. Lyu, K.#, L. Zhang#, X. Zhu#, G. Cui#, **A. E. Wilson**, and Z. Yang. 2015. Arginine kinase in the cladoceran *Daphnia magna*: cDNA sequencing and expression is associated with resistance to toxic *Microcystis*. *Aquatic Toxicology* 160(2015):13-21.
  31. Kasinak, J.-M. E.#, B. M. Holt#, M. F. Chislock#, and **A. E. Wilson**. 2015. Benchtop fluorometry of phycocyanin as a rapid approach for estimating cyanobacterial biovolume. *Journal of Plankton Research* 37(1):248-257.
  30. Kollock, R. O., K. Games#, **A. E. Wilson**, and J. M. Sefton. 2015. Effects of vehicle-ride exposure on cervical pathology – a meta-analysis. *Industrial Health* 53:197-205.
  29. Games, K.#, J. M. Sefton, and **A. E. Wilson**. 2015. Whole-body vibration and blood flow and muscle oxygenation: a meta-analysis. *Journal of Athletic Training* 50(5):542-549.
  28. Newcomer, B. W., P. H. Walz, M. D. Givens, and **A. E. Wilson**. 2015. Efficacy of bovine viral vaccination to prevent reproductive disease: a meta-analysis. *Theriogenology* 83(2015):360-365.
  27. Chislock, M. F.#, K. L. Sharp#, and **A. E. Wilson**. 2014. *Cylindrospermopsis raciborskii* dominates under very low and high nitrogen-to-phosphorus ratios. *Water Research* 49:207-214.
  26. Doster, E.#, M. F. Chislock#, J. Roberts, J. Kottwitz, and **A. E. Wilson**. 2014. Recognition of an important water quality issue at zoos: prevalence and potential threat of toxic cyanobacteria. *Journal of Zoo and Wildlife Medicine* 45(1):174-177.
  25. Chislock, M. F.#, O. Sarnelle, B. K. Olsen#, E. Doster#, and **A. E. Wilson**. 2013. Large effects of consumer offense on ecosystem structure and function. *Ecology* 94(11):2375-2380.
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#### **OTHER LAB PUBLICATIONS (# STUDENT AUTHOR)**

12. Buley, R. P.#, A. Kelly, L. Roy, E. G. Fernandez-Figueroa#, M. Gladfelter#, A. Belfiore#, and **A. E. Wilson**. *In press*. Controlling *Microcystis* blooms in Alabama catfish aquaculture. Alabama Cooperative Extension System ANR-2757.
11. Fernandez-Figueroa, E. G.#, A. P. Belfiore#, and **A. E. Wilson**. 2021. Drones for monitoring “blue-greens” in catfish aquaculture ponds. *Fish Farming News* 2021(1):16-17.
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9. Garner, B.#, C. Adams#, R. P. Buley#, and **A. E. Wilson**. Aquaculture 2019: Auburn students’ perspective. *World Aquaculture* 50(2):19.
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#### **PEER-REVIEWED PUBLICATIONS FROM TEACHING (# STUDENT AUTHOR)**

42. Odom, S.#, H. Boso, S. Bowling, S. Cotner, C. Creech, A. G. Drake, S. Eddy, S. Fagbodun, S. Hebert, A. James, J. Just, J. R. St. Juliana, M. Shuster, S. Thompson, R. Whittington, B. Wills, **A. Wilson**, K. R. Zamudio, M. Zhong, and C. J. Ballen. *In press*. Meta-analysis of gender performance gaps in undergraduate natural science courses. *CBE-Life Sciences Education*
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11. McGill, J.#, F. Adler-Baeder, and P. Rodriguez. 2016. Mindfully in love: A meta-analysis of the association between mindfulness and relationship satisfaction. *Journal of Human Sciences and Extension* 4(1):89-101.
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9. Goessling, J. M.#, H. Kennedy, M. T. Mendonça, and **A. E. Wilson**. 2015. A meta-analysis of plasma corticosterone and heterophil:lymphocyte ratios – Is there conservation of physiological stress responses over time? *Functional Ecology* 29:1189-1196.
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5. Games, K.#, J. M. Sefton, and **A. E. Wilson**. 2015. Whole-body vibration and blood flow and muscle oxygenation: a meta-analysis. *Journal of Athletic Training* 50(5):542-549.
4. Newcomer, B. W.#, P. H. Walz, M. D. Givens, and **A. E. Wilson**. 2015. Efficacy of bovine viral vaccination to prevent reproductive disease: a meta-analysis. *Theriogenology* 83(2015):360-365.

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1. Logan, S. W.#, L. E. Robinson, **A. E. Wilson**, and W. A. Lucas. 2012. 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* 38(3):305-315.

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**PUBLICATIONS FROM NSF REU SITE (<http://wilsonlab.com/reu/>) (# UNDERGRADUATE AUTHOR)**

29. Hyman, M.#, Q. Wang, **A. E. Wilson**, S. Adhikari, and B. T. Higgins. 2021. Production of *Daphnia* zooplankton on wastewater-grown algae for sustainable conversion of waste nutrients to fish feed. *Journal of Cleaner Production* 310:127501.
28. Buley, R. P., C. Adams#, A. P. Belfiore, E. G. Fernandez-Figueroa, M. F. Gladfelter, B. Garner#, D. L. Straus, and **A. E. Wilson**. 2021. Field evaluation of seven products to control cyanobacterial blooms in aquaculture. *Environmental Science and Pollution Research* 28:29971-29983.
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24. Myers, J. N., A. J. Bradford, V. S. Hallas#, L. L. Lawson, T. E. Pitcher, R. A. Dunham, and I. A.E. Butts. 2020. Channel catfish ovarian fluid differentially enhances blue catfish sperm performance. *Theriogenology* 149:62-71.
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21. Clay, M.#, J. Stoeckel, and B. Helms. 2017. The role of abiotic and biotic cues in burrow habitat selection by juvenile crayfish. *Behaviour* 154(12):1177-1196.
20. Low, L.# and C. J. Anderson. 2017. The threat of a nonnative, invasive apple snail to oligohaline marshes along the Northern Gulf of Mexico. *Journal of Coastal Research* 33(6):1376-1382.
19. Kasinak, J.-M. E., C. J. Bishop#, R. A. Wright, and **A. E. Wilson**. 2015. Grass carp do not consume the nuisance benthic cyanobacterium, *Lyngbya wollei*. *Journal of Aquatic Plant Management* 53:74-80.
18. Kasinak, J.-M. E., B. M. Holt#, M. F. Chislock, and **A. E. Wilson**. 2015. Benchtop fluorometry of phycocyanin as a rapid approach for estimating cyanobacterial biovolume. *Journal of Plankton Research* 37(1):248-257.
17. Hossain, M. J., D. Sun, D. J. McGarey, S. Wrenn, L. M. Alexander#, M. E. Martino, Y. Xing Y, J. S. Terhune, and M. R. Liles. 2014. An Asian origin of virulent *Aeromonas hydrophila* responsible for disease epidemics in United States-farmed catfish. *mBio* 5(3):e00848-14.
16. Low, L.# 2014. Wetland Invaders: Apple snail response to stress conditions. Whitman College senior thesis.
15. Nelson, T. R., D. Sutton#, and D. R. DeVries. 2014. Summer movements of the Gulf killifish (*Fundulus grandis*) in a northern Gulf of Mexico salt marsh. *Estuaries and Coasts* 37(5):1295-1300.
14. Simpson, A.#, I. Turner, E. Brantley, and B. Helms. 2014. Bank erosion hazard index as an indicator of near-bank aquatic habitat and community structure in a southeastern Piedmont stream. *Ecological Indicators* 43:19-28.
13. Chislock, M. F., K. L. Sharp#, and **A. E. Wilson**. 2014. *Cylindrospermopsis raciborskii* dominates under very low and high nitrogen-to-phosphorus ratios. *Water Research* 49:207-214.
12. Doster, E.#, M. F. Chislock, J. Roberts, J. Kottwitz, and **A. E. Wilson**. 2014. Recognition of an important water quality issue at zoos: prevalence and potential threat of toxic cyanobacteria. *Journal of Zoo and Wildlife Medicine* 45(1):168-168.

11. Hossain, M. J., G. C. Waldbieser, D. Sun, N. K. Capps, W. B. Hemstreet, K. Carlisle#, M. J. Griffin, L. Khoo, A. E. Goodwin, T. Sonstegard, S. S. Schroeder, K. Hayden, J. C. Newton, J. S. Terhune, and M. R. Liles. 2013. Implication of lateral genetic transfer in the emergence of *Aeromonas hydrophila* isolates of epidemic outbreaks in channel catfish. *PLoS ONE* 8(11):e80943.
10. Arias, C. R., K. Koenders#, and A. M. Larsen. 2013. Predominant bacteria associated with red snapper *Lutjanus campechanus* (Poey, 1860) from the northern Gulf of Mexico. *Journal of Aquatic Animal Health* 25(4):281-289.
9. Olsen, B., C. Smith, M. Chislock, J.-M. E. Kasinak, and E. Doster#. 2013. Letter to the Editor: Association for the Sciences of Limnology and Oceanography (ASLO) 2013 Annual Meeting: Students' perspectives. *ASLO Bulletin* 22(3):83-84.
8. Chislock, M. F., O. Sarnelle, B. K. Olsen, E. Doster#, and **A. E. Wilson**. 2013. Large effects of consumer offense on ecosystem structure and function. *Ecology* 94(11):2375-2380.
7. Chislock, M. F., E. Doster#, R. A. Zitomer#, and **A. E. Wilson**. 2013. Eutrophication: Causes, consequences, and controls in aquatic ecosystems. *Nature Education Knowledge* 4(4):10.
6. **Wilson, A. E.**, M. F. Chislock, E. Doster#, R. A. Wright, J. J. Kottwitz, H. Walz, and H. Rose. 2013. Toxic algae threaten livestock health. *The Alabama Cattleman newsletter*.
5. Boardman, E.# 2013. Late-summer drawdown and invertebrate assemblages in intermittent Alabama streams. University of Vermont senior thesis. May 1, 2013. Document and Oral Defense
4. Gough, H. M.#, A. M. Gascho Landis and J. A. Stoeckel. 2012. Behaviour and physiology are linked in freshwater mussel responses to drought. *Freshwater Biology* 57(11):2356-2366.
3. Imhoff, E., M. J. Moore# and R. J. DiStefano. 2012. Introduced alien ringed crayfish (*Orconectes neglectus neglectus* [Faxon, 1885]) threaten imperiled coldwater crayfish (*Orconectes eupunctus* Williams, 1952) in the Eleven Point River drainage, Missouri, USA. *Aquatic Invasions* 7(1):129-134.
2. Moore, M. J.#, R. J. DiStefano, and E. R. Larson. 2012. An assessment of life history studies for United States and Canadian crayfishes: Identifying biases and knowledge gaps to improve conservation and management. *Freshwater Science* 32:1276-1287.
1. Stump, A. J.# 2012. Bluegill Response to Supplemental Feeding and Patch Richness in Recreational Fishing Ponds. EKU Encompass Publication.

## **EDITORIAL, PROGRAM MANAGEMENT, AND REVIEWING ACTIVITIES**

### EDITORIAL DUTIES

*Nature Scientific Reports* - Editorial Board (Ecology and Evolutionary Biology section) - 2014 to 2018

*Harmful Algae* - Editorial Board - 2017 to 2020

### FUNDING AGENCIES

#### Program management

National Science Foundation

Program Director in Population and Community Ecology (many panels and proposals) - 2014 to 2016

Managed three panels for NSF Research Traineeship (NRT) program - 2014 to 2016

Managed virtual and in-person panels for the NSF Coastal SEES program - Fall 2015 to Spring 2016

Managed one panel for the NSF Graduate Research Fellowship program (GRFP) - Spring 2016

Program manager of OPUS program - 2015

Division representative for CAREER program - 2015 to 2016

#### Panel service (15 panels across 3 total agencies)

National Science Foundation (12 panels: Population and Community Ecology cluster (2x), Long-Term

Ecological Research (LTER) Site Visit, Research Experiences for Undergraduates (3x), Basic Research to

Enable Agricultural Development (BREAD), Ecological Biology DDIG, Graduate Research Fellowship

program (3x), EPSCoR Research Infrastructure Improvement (RII) Track-2) New York Sea Grant (1 panel)

USDA National Institute of Food and Agriculture (3 panels: Aquaculture program (2x), Hispanic-serving

Institutions Education Grants program)

#### Ad-hoc proposal reviews (41 ad-hoc reviews across 20 total agencies/programs)

National Science Foundation (Population and Community Ecology, Ecological Biology, Ecosystem Science,

BREAD, Office of Integrative Activities), Ecology and Oceanography of Harmful Algal Blooms

(ECOhab), Israeli Ministry of Science and Technology, Netherlands Organisation for Scientific Research, New York Sea Grant, North Carolina Water Resources Research Institute, Oklahoma Water Resources Research Institute, Romanian National Council for Scientific Research, Portuguese Foundation for Science and Technology, Singapore Ministry of Education, United International College, United States Geological Survey - National Institutes for Water Resources, University of Michigan Water Center, California Department of Fish and Wildlife, National Science Centre – Poland, Gulf of Mexico University Research Collaborative, Swiss National Science Foundation, NOAA Internal Competition for Aquaculture Funds, Auburn University Internal Limited Submissions, French National Research Agency

*JOURNALS (186 manuscript reviews for 71 total journals)*

*Acta Oecologica, African Journal of Aquatic Science, Algal Research, American Naturalist, Applied Microbiology and Biotechnology, Aquaculture, Aquatic Ecology, Aquatic Sciences, Archiv für Hydrobiologie, Auburn University Journal of Undergraduate Scholarship, Biochemical Systematics and Ecology, BMC Ecology, British Journal of Environment & Climate Change, Canadian Journal of Fisheries and Aquatic Sciences, Cell Biology and Toxicology, Critical Reviews in Environmental Science and Technology, Ecohydrology & Hydrobiology, Ecological Monographs, Ecology, Ecology and Evolution, Ecology Letters, Ecosphere, Ecosystems, Ecotoxicology and Environmental Safety, Environmental Management, Environmental Microbiology, Environmental Monitoring and Assessment, Environmental Pollution, Environmental Research Letters, Environmental Science & Technology, Environmental Science and Pollution Research, F1000Research, Freshwater Biology, Freshwater Science, Global Ecology and Biogeography, Harmful Algae, Hydrobiologia, International Journal of Limnology, Journal of Agriculture of the University of Puerto Rico, Journal of Applied Aquaculture, Journal of Applied Microbiology, Journal of Applied Phycology, Journal of Chemical Ecology, Journal of Environmental Sciences, Journal of Experimental Marine Biology and Ecology, Journal of Freshwater Ecology, Journal of Great Lakes Research, Journal of Natural Resources Education, Journal of Phycology, Journal of Plankton Research, Journal of Sea Research, Journal of Water and Health, Journal of World Aquaculture Society, Lake and Reservoir Management, Lakes and Reservoirs: Research and Management, Limnologica, Limnology and Oceanography, Limnology and Oceanography: Methods, Livestock Science, Marine Drugs, Marine Ecology Progress Series, Microbial Ecology, Oecologia, Oikos, PLoS ONE, Science of the Total Environment, Studies in Higher Education, Water Research, Water Supply*

#### **OTHER REVIEWING ACTIVITIES**

Administrative review of Dr. Joseph Tomasso, Director of School of Fisheries, Aquaculture, and Aquatic Sciences - 2019 to 2020

Tenure and/or promotion dossier reviews - 2017 to 2019, 2021

Harmful Algal Bloom report reviewer for the Natural Resources Defense Council - 2019

Technical Qualifications Board review for US EPA scientist - 2018

Administrative review of Dr. Royrickers Cook, Associate Provost and VP for Univ Outreach - 2017 to 2018

Dissertation review for PhD student at National University of Sciences and Technology in Pakistan - 2016

US EPA Numeric nutrient criteria for lakes and reservoirs of the continental US report review - 2016

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#### **INVITED RESEARCH PRESENTATIONS**

- 2021 SUNY-Brockport, Department of Environmental Science & Ecology. Remote from Auburn, Alabama.
- 2021 College of Agriculture, Our Work Seminar with undergraduate, Madison Dees. Auburn University. Auburn, Alabama.
- 2021 The Interagency Working Group on The Harmful Algal Bloom and Hypoxia Research and Control Amendments Act (HABHRCA). Remote from Auburn, Alabama.
- 2021 College of Agriculture Federal Agenda Project Leaders meeting, Auburn University. Remote from Auburn, Alabama.
- 2021 Helmholtz Centre for Environmental Research, Magdeburg, Germany. Remote from Auburn, Alabama.
- 2020 Columbus State University, Department of Earth and Space Sciences. Columbus, Georgia.
- 2020 Auburn Rotary Club Meeting. Auburn, Alabama.
- 2020 Water Resources Center, College of Agriculture, Auburn University. Auburn, Alabama.
- 2020 College of Agriculture Research Colloquium, Auburn University. Auburn, Alabama.
- 2019 Alabama Association for Food Protection annual meeting. Montgomery, Alabama.

2019 Southeastern Ecology and Evolution Conference, Introduction, Auburn University. Auburn, Alabama.

2019 Annual catfish update meeting, Auburn University. Greensboro, Alabama.

2019 Dauphin Island Sea Lab. Dauphin Island, Alabama.

2019 University of South Florida, Department of Integrative Biology. Tampa, Florida.

2019 Florida Atlantic University, Department of Biology. Boca Raton, Florida.

2019 Wayne State University, Department of Biological Sciences. Detroit, Michigan.

2018 MTA ÖK Balatoni Limnológiai Intézet. Tihany, Hungary

2018 Annual catfish update meeting, Auburn University. Demopolis, Alabama.

2018 Centro de Estudios Ambientales de Cienfuegos. NSF PIRE workshop. Cienfuegos, Cuba.

2018 Nanjing Normal University, School of Biological Sciences. Nanjing, China.

2018 U.S. Environmental Protection Agency, Region 4 Harmful Algal Bloom Southeastern Regional Workshop. Atlanta, Georgia.

2018 U.S. Environmental Protection Agency, Region 4 EPA Numeric Nutrient Criteria Technical Workshop. Atlanta, Georgia.

2018 Alabama Department of Environmental Management, Surface water program. Montgomery, Alabama.

2018 Georgia Southern University, Department of Biology. Statesboro, Georgia.

2018 Baylor University, Department of Biology. Waco, Texas.

2017 University of Alabama at Tuscaloosa, Water Research group. Tuscaloosa, Alabama.

2017 Alabama Department of Environmental Management, Surface water program. Montgomery, Alabama.

2017 Annual catfish update meeting, Auburn University. Demopolis, Alabama.

2016 Certified Crop Advisor meeting, Soil and Water Session. Auburn, Alabama.

2016 U.S. Environmental Protection Agency, Region 4. Atlanta, Georgia.

2016 University of Alabama at Birmingham, Department of Biology and Physics. Birmingham, Alabama.

2016 Alabama Water and Wastewater Institute, technical training program. Point Clear, Alabama.

2016 Alabama Department of Environmental Management, Surface water program. Montgomery, Alabama.

2016 Annual catfish update meeting, Auburn University. Demopolis, Alabama.

2016 Annual Arkansas Water Resources Meeting, University of Arkansas. Fayetteville, Arkansas.

2016 Auburn University Interdisciplinary Studies Program, Auburn University. Auburn, Alabama.

2016 University of Oklahoma, Environmental Studies Program. Norman, Oklahoma.

2016 U.S. Environmental Protection Agency, Region 10, Harmful Algal Bloom workshop. Seattle, WA.

2016 Alabama Rural Water Association, Annual meeting. Mobile, Alabama.

2016 Kennesaw State University, Department of Biology and Physics. Kennesaw, Georgia.

2015 Alabama Department of Environmental Management, Surface water program. Montgomery, Alabama.

2015 Blandy Experimental Farm, University of Virginia. Boyce, Virginia.

2015 Smithsonian Environmental Research Center. Edgewater, Maryland.

2014 U.S. Environmental Protection Agency, Region 4, Numeric Nutrient Criteria Workshop. Atlanta, GA.

2013 National Science Foundation, Division of Environmental Biology. Arlington, Virginia.

2013 Global Research Institute, University of North Carolina at Chapel Hill. Chapel Hill, North Carolina.

2012 North Carolina A&T University, Department of Animal Science. Greensboro, North Carolina.

2012 Tuskegee University, Department of Agricultural Sciences. Tuskegee, Alabama.

2012 Nanjing Normal University, School of Biological Sciences. Nanjing, China.

2012 University of West Georgia, Department of Biology. Carrollton, Georgia.

2012 Auburn University, Biosystems Engineering Department. Auburn, Alabama.

2012 Columbus State University, Department of Biology. Columbus, Georgia.

2012 37<sup>th</sup> Great Plains Limnology Conference, University of Arkansas. Fayetteville, Arkansas.

2012 Association of Southeastern Biologists, University of Georgia. Athens, Georgia.

2012 Jackson Lake Homeowners Association. Covington, Georgia.

2012 Purdue University, Department of Forestry and Natural Resources. West Lafayette, Indiana.

2011 XIII Brazilian Meeting of Limnology. Natal, Brazil.

2011 Florida Atlantic University, Department of Biology. Boca Raton, Florida.

2011 The Evergreen State College, Environmental Studies. Olympia, Washington.

2011 Olympia Film Society, Environmental Movie Festival. Olympia, Washington.

2011 Southeastern Ecology and Evolution Conference, Keynote, Auburn University. Auburn, Alabama.

2010 University of Notre Dame, Department of Biological Sciences. South Bend, Indiana.

- 2010 Tuskegee University, Department of Agricultural Sciences. Tuskegee, Alabama.
- 2010 University of West Alabama, Department of Biological Sciences. Livingston, Alabama.
- 2009 Purdue University, Department of Forestry and Natural Resources. West Lafayette, Indiana.
- 2009 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.
- 2007 Florida International University, Department of Biological Sciences. Miami, Florida.
- 2007 Michigan State University, Kellogg Biological Station. Hickory Corners, Michigan.
- 2007 Grand Valley State University, Annis Water Resources Institute. Muskegon, Michigan.
- 2007 Auburn University, Department of Fisheries and Allied Aquacultures. Auburn, Alabama.
- 2006 NOAA Great Lakes Environmental Research Laboratory. Ann Arbor, Michigan.
- 2006 University of Waterloo, School of Biology. Waterloo, Ontario.
- 2006 Georgia Institute of Technology, IGERT Signals in the Sea seminar series. Atlanta, Georgia.

**INVITED TEACHING PRESENTATIONS (IN ADDITION TO NORMAL TEACHING LOAD)**

- 2021 Auburn University, Honor's College, Auburn, Alabama  
Course: Research at Auburn. Lecture topic: Research in the WilsonLab
- 2021 Auburn University, School of Fisheries, Aquaculture, and Aquatic Sciences, Auburn, Alabama  
Course: Global and Regional Perspectives in Fisheries, Aquaculture, and Aquatic Sciences. Lecture topic: Causes, controls, and consequences of eutrophication
- 2020 Auburn University, School of Fisheries, Aquaculture, and Aquatic Sciences, Auburn, Alabama  
Course: Global and Regional Perspectives in Fisheries, Aquaculture, and Aquatic Sciences. Lecture topic: Causes, controls, and consequences of eutrophication
- 2019 Auburn University, Department of Biological Sciences, Auburn, Alabama  
Course: Bioinformatics and Genome Analysis. Lecture topic: NSF panel experience
- 2019 Auburn University, Department of Biological Sciences, Auburn, Alabama  
Course: Bioinformatics and Genome Analysis. Lecture topic: Reviewing proposal and preparing for an NSF panel
- 2019 Auburn University, Department of Crop, Soil, and Environmental Sciences, Auburn, Alabama  
Course: Environmental Science course. Lecture topic: Causes, controls, and consequences of eutrophication
- 2019 Auburn University, School of Fisheries, Aquaculture, and Aquatic Sciences, Auburn, Alabama  
Course: Global and Regional Perspectives in Fisheries, Aquaculture, and Aquatic Sciences. Lecture topic: Causes, controls, and consequences of eutrophication
- 2019 Auburn University, School of Fisheries, Aquaculture, and Aquatic Sciences, Auburn, Alabama  
Course: Dimensions in Fisheries, Aquaculture, and Aquatic Sciences. Lecture topic: Causes, controls, and consequences of eutrophication
- 2018 Auburn University, College of Agriculture, Auburn, Alabama  
Course: Introduction to Agriculture course. Lecture topic: Causes, controls, and consequences of eutrophication
- 2018 Auburn University, Department of Crop, Soil, and Environmental Sciences, Auburn, Alabama  
Course: Environmental Science course. Lecture topic: Causes, controls, and consequences of eutrophication
- 2017 Auburn University, School of Fisheries, Aquaculture, and Aquatic Sciences, Auburn, Alabama  
Course: Careers and Orientation in Fisheries. Lecture topic: NSF Research Experiences for Undergraduates program
- 2017 Auburn University, School of Fisheries, Aquaculture, and Aquatic Sciences, Auburn, Alabama  
Course: Careers in Fisheries. Lecture topic: Research in the WilsonLab
- 2017 Auburn University, Department of Crop, Soil, and Environmental Sciences, Auburn, Alabama  
Course: Environmental Science course. Lecture topic: Causes, controls, and consequences of eutrophication
- 2017 Auburn University, Department of Biological Sciences, Auburn, Alabama

- Course: Marine Biology Learning Community course. Lecture topic: Eutrophication: causes, controls, and consequences
- 2017 Auburn University, Auburn Global program.  
Course: Auburn Global course. Lecture topic: NSF organizational structure, funding opportunities, and tips for success
- 2017 Auburn University, College of Agriculture  
Workshop: Funding tips for the National Science Foundation.
- 2017 Kentucky-Tennessee Water Environment Association hour-long webinar from Auburn University. Auburn, Alabama. Lecture title: Do harmful algal blooms threaten freshwater resources in the southeastern U.S.?
- 2016 Auburn University, Department of Biological Sciences, Auburn, Alabama  
Course: Marine Biology Learning Community course. Lecture topic: Eutrophication: causes, controls, and consequences
- 2016 Auburn University, Honors College. Auburn, Alabama.  
Lecture topic: NSF graduate fellowship discussion
- 2016 University of Oklahoma, Environmental Studies program. Norman, Oklahoma.  
Course: Limnology. Lecture topic: Are harmful algal blooms a threat to U.S. freshwater lakes?
- 2015 Auburn University, Department of Biological Sciences, Auburn, Alabama  
Course: Marine Biology Learning Community course. Lecture topic: Eutrophication: causes, controls, and consequences
- 2015 Purdue University, Department of Forestry and Natural Resources. West Lafayette, Indiana.  
Course: Graduate Professional Development course. Lecture topic: NSF organizational structure, funding opportunities, and tips for success
- 2015 Auburn University, Biggio Center for the Enhancement of Teaching and Learning  
Course: Preparing Future Faculty program. Lecture topic: NSF organizational structure, funding opportunities, and tips for success
- 2013 Purdue University, Honors College. West Lafayette, Indiana.  
Course: The Sustainability Project. Lecture topic: Consequences of eutrophication in freshwater ecosystems.
- 2013 Auburn University, Honors College. Auburn, Alabama.  
Lecture topic: NSF and EPA STAR graduate fellowship discussion
- 2012 Auburn University, Biggio Center for the Enhancement of Teaching and Learning  
Course, Preparing Future Faculty program. Auburn, Alabama. Lecture topic: Institutional roles and responsibilities
- 2012 Auburn University, Department of Biological Sciences, Auburn, Alabama  
Course: Marine Biology Learning Community course. Auburn, Alabama. Lecture topic: Eutrophication: causes, controls, and consequences
- 2012 Auburn University, Honors College. Auburn, Alabama.  
Lecture topic: NSF and EPA STAR graduate fellowship discussion
- 2012 Auburn University, Honors College. Auburn, Alabama.  
Course: Honors Lyceum: Research at Auburn. Lecture topic: Aquatic ecology in the WilsonLab
- 2012 Auburn University, College of Agriculture. Auburn, Alabama.  
Course: Graduate Student Teaching Practicum. Lecture topic: Research program development
- 2012 Auburn University, College of Agriculture. Auburn, Alabama.  
Course: Graduate Student Teaching Practicum. Lecture topic: Resume development and critique
- 2011 Purdue University, Department of Forestry and Natural Resources. West Lafayette, Indiana.  
Course: Great Lakes Science and Management. Lecture topic: Eutrophication: causes, controls, and consequences
- 2010 Florida Department of Environmental Protection, webinar from Auburn University. Auburn, Alabama.  
Lecture topic: Water quality and human health
- 2010 Auburn University, Department of Fisheries and Allied Aquacultures. Auburn, Alabama.  
Course: Careers in Fisheries. Lecture topic: How to prepare for and succeed in graduate school
- 2009 Auburn University, Department of Fisheries and Allied Aquacultures. Auburn, Alabama  
Program: USDA Chinese aquaculture exchange. Lecture topic: Limnology and aquaculture:



- eutrophication and cyanobacterial blooms
- 2009 Auburn University, Department of Fisheries and Allied Aquacultures. Auburn, Alabama.  
Course: Introduction to Fisheries. Lecture topic: Aquatic community ecology
- 2008 Auburn University, Department of Fisheries and Allied Aquacultures. Auburn, Alabama.  
Course: Introduction to Fisheries. Lecture topic: Aquatic community ecology
- 1999 Michigan State University, Department of Fisheries and Wildlife. East Lansing, Michigan.  
Course: Introduction to Fisheries and Wildlife. Lecture topic: Lake trout biology and ecology
- 1998 Michigan State University, Department of Fisheries and Wildlife. East Lansing, Michigan.  
Course: Introduction to Fisheries and Wildlife. Lecture topic: Lake trout biology and ecology

## **POSTDOC AND GRADUATE STUDENT ADVISEMENT**

### *POSTDOC ADVISOR FOR*

Arevik Minasyan	Fulbright Fellow	UNESCO-Armenia	Fall 2016 to Fall 2017
Zhen Yang	Postdoc Fellow	China Scholarship	Fall 2016 to Fall 2017

### *PRINCIPAL ADVISOR FOR*

Angelea Belfiore	Masters	Fisheries	Fall 2019 to Summer 2021 (completed)
Riley Buley	Doctoral	Fisheries	Fall 2017 to Spring 2021 (completed)
Michael Chislock	Doctoral & Masters	Fisheries	Summer 2008 to Spring 2016 (M.S. and Ph.D. completed)
Edna Fernandez	Doctoral	Fisheries	Fall 2016 to Spring 2021 (completed)
Matt Gladfelter	Doctoral & Masters	Fisheries	Fall 2018 to present (M.S. completed Spring 2021)
Jo-Marie Kasinak	Masters	Biological Sciences	Spring 2012 to Fall 2013 (completed)
RajReni Kaul	Masters	Fisheries	Summer 2008 to Summer 2011 (completed)
Brie Olsen	Masters	Fisheries	Fall 2012 to Spring 2015 (completed)
Suzanne Tenison	Masters	Fisheries	Starting Fall 2021
Hannah Zinnert	Masters	Fisheries	Starting Fall 2021

### *COMMITTEE MEMBER FOR*

Gwendolyn Bird	Doctoral	Biology	Summer 2019 to present
Fangning Cao	Doctoral	Forestry and Wildlife Sciences	Spring 2020 (completed)
Spencer Cruz	Masters	Biology (Columbus State Univ.)	Summer 2018 to Fall 2019 (completed)
Justin Havird	Doctoral	Biological Sciences	Spring 2011 to Spring 2014 (completed)
Kyle Heine	Doctoral	Biological Sciences	Fall 2018 to present
Katherine Cook	Doctoral	Biology (Oklahoma)	Spring 2016 to present
Peyton Goodling	Masters	Biosystems Eng	Fall 2020 to Summer 2021 (completed)
Andrew Landis	Doctoral	Fisheries	Fall 2009 to Spring 2013 (completed)
Hanyan Li	Doctoral	Civil & Env. (Utah) Engineering	Fall 2016 to Summer 2021 (completed)
Samuel Logan	Doctoral	Kinesiology	Summer 2011 to Summer 2012 (completed)
Riley Lovejoy	Doctoral	Biological Sciences (Univ of Alabama)	Fall 2017 to present
Kathleen Morrow	Doctoral	Biological Sciences	Spring 2008 to Fall 2011 (completed)
Craig Roberts	Masters	Fisheries	Fall 2010 to Summer 2012 (completed)
Dasia Simpson	Doctoral	Biological Sciences	Fall 2020 to present
Morgan Thomas	Masters	Biosystems Eng	Spring 2021 to Summer 2021 (completed)
Pandora Wadsworth	Masters	Fisheries	Spring 2017 to Spring 2018 (completed)

Ryan Weaver	Doctoral	Biological Sciences	Spring 2014 to Summer 2018 (completed)
Stephen Woodard	Masters	Fisheries	Fall 2009 to Spring 2011 (completed)

*INTERNATIONAL GRADUATE STUDENT VISITOR MENTOR FOR*

Mário Barros	Doctoral	Federal University of Ceará (Brazil)	Spring 2017 to Summer 2018 (completed)
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**UNDERGRADUATE STUDENT ADVISEMENT**

*NSF RESEARCH EXPERIENCES FOR UNDERGRADUATES (REU) AT AUBURN UNIVERSITY*

Catie Adams	Auburn University	Natural Resources major	Summer 2019
Kathryn Cruz	Hampton University	Biology major	Summer 2019
Zachary Davenport	Gallaudet University	Biology major	Summer 2018
Serra Martin	Gadsden State C.C.	General science	Summer 2018
Sarah Leinbach	University of Maryland	Biology major	Summer 2018
Emily Waller	Rochester Inst. of Tech.	Biology major	Summer 2018
Bethany Pierce	NW OK State Univ.	Biology major	Summer 2018
Anthony Scott	Livingstone College	Animal Science major	Summer 2013
Leslie Pope	North Georgia College	Biology major	Summer 2013
Crystal Bishop	Young Harris College	Biology major	Summer 2013
Brittany Holt	Tuskegee Univ	Microbiology major	Summer 2012
Enrique Doster	Auburn Univ	Animal Science major	Summer 2012
Rachel Zitomer	Humboldt State Univ	Ecology major	Summer 2012
Katie Sharpe	Univ of West Alabama	Marine Biology major	Summer 2011
Kristin Peck	Smith College	Biology major	Summer 2010
Patricia Bradley	Tuskegee Univ	Animal science major	Summer 2010

*NATIONAL SCIENCE FOUNDATION*

Zulema Osorio	Solano Comm. College	General Science	Summer 2015
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*AUBURN UNIVERSITY*

Susanne Wittenzeller	German DAAD RISE	Aquatic Ecology major	Fall 2021 to present
Jessica Chan	Auburn Univ	Biochemistry major	Summer 2021 to present
Jake Delaney	Auburn Univ	Animal Science major	Summer 2021 to present
Lauren Tucker	Auburn Univ	Marine Biology major	Spring 2021 to present
Tiffany Ramsey	Auburn Univ	Pre-medicine major	Fall 2020 to present
Isabel Bela	Auburn Univ	Biosystems Eng. major	Fall 2019 to present
Anna Claire Mollica	Auburn Univ	Marine Biology major	Spring 2021
Madison Dees	Auburn Univ	Poultry Science major	Fall 2019 to Spring 2021
JaKayla Cunningham	Auburn Univ	Pre-medicine major	Fall 2020
Jameela Broadie	Auburn Univ	Pre-dental major	Fall 2020
Carter Giles	Auburn Univ	Conservation major	Spring 2020 to Fall 2020
Catie Adams	Auburn Univ	Natural Resources major	Fall 2018 to Spring 2020
Brynne Garner	Auburn Univ	Integrative Biology major	Fall 2018 to Fall 2019
Maddie Grace	Auburn Univ	Organismal Biology major	Fall 2018 to Fall 2019
Chris Smith	Auburn Univ	Fisheries major	Summer 2019 to Fall 2019
Gillian Ash	Auburn Univ	Animal Science major	Summer 2018 & Summer 2019
Darby Dubose	Auburn Univ	Animal Science major	Fall 2018 to Spring 2019
LeeAnn Johnston	Auburn Univ	Biosystems Eng. major	Spring 2017 to Spring 2019
Justin Fausnight	Auburn Univ	Wildlife Ecology major	Summer 2018
Dillon Taylor	Auburn Univ	Biosystems Eng. major	Spring 2018 to Summer 2018
Jaliyl Collins	Auburn Univ	Natural Resources major	Summer 2018
Kaitlyn Baker	Auburn Univ	Marine Biology major	Spring 2018 to Summer 2018

AnaSara Kipp	Auburn Univ	Fisheries major	Spring 2018
Harris Pride	Auburn Univ	Civil Engineering major	Spring 2018
Trevor Kirkland	Auburn Univ	Fisheries major	Fall 2017 to Spring 2018
Soorya Rajendran	Auburn Univ	Pre-med major	Summer 2017 to Spring 2018
Austin Holley	Auburn Univ	Integrative Biology major	Fall 2017
Chase Woods	Auburn Univ	Animal Science major	Fall 2016 to Fall 2017
Madeline Burton	Auburn Univ	Marine Biology major	Summer 2017 to Fall 2017
Bettina Welz	German DAAD RISE	Aquatic Ecology major	Summer 2017 to Fall 2017
Nadia Bowles	Tuskegee Univ	Animal science major	Spring 2017
Austin Johnson	Auburn Univ	Civil Eng. major	Spring 2017
Katelyn McWhirter	Auburn Univ	Animal Science major	Fall 2016
Jess Choi	Auburn Univ	Integrative Biology major	Summer 2014 to Fall 2016
Jenny Isham	Auburn Univ	Animal Science major	Spring 2014 to Fall 2016
Eric Wittig	Auburn Univ	Fisheries major	Fall 2015 to Spring 2016
Courtney Andes	Auburn Univ	Marine Biology major	Fall 2015
Anja Rebelein	German DAAD RISE	Aquatic Ecology major	Summer 2014
Matthew Cobb	Auburn Univ	Communications major	Spring 2014 to Summer 2014
Laurel Roberts	Auburn Univ	Microbiology major	Fall 2013 to Spring 2014
Donald Ward	Auburn Univ	Zoology major	Summer 2013 to Spring 2014
Mike Amat	Auburn Univ	Microbiology major	Fall 2013
Enrique Doster	Auburn Univ	Animal Science major	Fall 2011 to Fall 2013
Ross Bonner	Auburn Univ	Microbiology major	Fall 2012 to Spring 2013
Matthew Schenone	Auburn Univ	Business major	Fall 2012
Catherine Priester	Auburn Univ	Engineering major	Fall 2011 to Summer 2012
Sydney Stewart	Auburn Univ	Animal Science major	Fall 2011 to Spring 2012
Vernon Anderson	Auburn Univ	Microbiology major	Fall 2010 to Spring 2012
Sade Greene	Tuskegee Univ	Environmental major	Fall 2011
Micaela Sandoval	Auburn Univ	Microbiology major	Fall 2010 to Fall 2011
Erin Schmale	Auburn Univ	Microbiology major	Fall 2010 to Summer 2011
Lauren Jernigan	Auburn Univ	Zoology major	Spring 2010 to Summer 2011
Kristin Adamson	Auburn Univ	Wildlife major	Spring 2008 to Summer 2010
Steven Cason	Auburn Univ	Wildlife major	Spring 2010 to Summer 2010
Nathan Campbell	Auburn Univ	Geology major	Fall 2007 to Spring 2009
Erin Cash	Auburn Univ	Fisheries major	Spring 2009 to Fall 2009
MacGyver Buck	Auburn Univ	Fisheries major	Spring 2008 to Summer 2008
Ashley Wilson	Auburn Univ	Zoology major	Spring 2008
Adam Wilkins	Auburn Univ	Business major	Spring 2008

*UNIVERSITY OF MICHIGAN/NOAA HOLLINGS FELLOW*

Erin Sedgman	Western Michigan Univ	Engineering major	Summer 2006
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*GEORGIA INSTITUTE OF TECHNOLOGY*

Jamie Nguyen	Georgia Tech	Biology major	Fall 2003 to Spring 2004
Meryl Mims	Georgia Tech	Biology major	Fall 2003 to Spring 2004
Whitney Wilson	Columbia Univ	Art History major	Summer 2003

*MICHIGAN STATE UNIVERSITY*

Bethany Hanna	Michigan State Univ	Zoology major	Summer 2000
Tomoko Toda	Michigan State Univ	Zoology major	Summer 2000
Justin Chiotti	Michigan State Univ	Fisheries and Wildlife	Summer 2000

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**HIGH SCHOOL STUDENT ADVISEMENT**

## REMOTE STUDENT

Saranya Anantapantula Pennsylvania

Fall 2020 to present

## NSF RESEARCH ASSISTANTSHIPS FOR HIGH SCHOOL STUDENTS (RAHSS) AT AUBURN UNIVERSITY

Kayannush Pillai	Auburn H.S.	Summer 2012
Kiunte Dowdell	Edward Bell H.S.	Summer 2009 & 2010
Jacarris McCall	Calhoun County H.S.	Summer 2009
Devin Tolliver	Calhoun County H.S.	Summer 2009

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## TEACHING EXPERIENCES

### COURSES

- 2008 - 2014, '17-'21 Limnology - Auburn University - Fisheries, Aquaculture, and Aquatic Sciences  
Updated required core course and lab for all departmental undergraduates
- 2010, '12, '14, '16, '18-'21 Meta-analysis - Auburn University - Fisheries, Aquaculture, and Aquatic Sciences  
Developed graduate level course to introduce students to the concepts and limitations of meta-analysis. This course has produced 42 peer-reviewed journal articles led by students with at least 5 other manuscripts currently in review.
- 2019 The Hutchinson Scientific Legacy - Auburn University - Fisheries, Aquaculture, and Aquatic Sciences  
Graduate level directed studies course aimed at introducing a graduate student to the impact that G. Evelyn Hutchinson had on many scientific disciplines
- 2013 Water in our World - University of North Carolina at Chapel Hill - Institute for the Environment  
Seminar involving international experts on water related topics
- 2012 Preparing for a career in academia - Auburn University - Fisheries, Aquaculture, and Aquatic Sciences; Developed course aimed at preparing graduate students for academic careers
- 2010 - 2012 Limnology in Vietnam - Can Tho University, Can Tho City, Vietnam  
Developed two-week short course for twenty to thirty Vietnamese undergraduate students
- 2011 Ecological genetics - Auburn University - Fisheries, Aquaculture, and Aquatic Sciences  
Developed graduate level seminar to introduce students to the field of ecological genetics
- 2011 Graduate student teaching practicum - Auburn University - Fisheries, Aquaculture, and Aquatic Sciences; Developed graduate level course to prepare students for successful careers as educators
- 2010 Zooplankton population dynamics - Auburn University - Fisheries, Aquaculture, and Aquatic Sciences; Developed independent study for undergraduate student
- 2010 Metabolic theory of phytoplankton - Auburn University - Fisheries, Aquaculture, and Aquatic Sciences; Developed independent study for undergraduate student
- 2008 - 2009 Seminar - Auburn University - Fisheries, Aquaculture, and Aquatic Sciences  
Organized 15 seminars with scientists from several institutions and federal agencies
- 2008 Special topics in Fisheries - Auburn University - Fisheries, Aquaculture, and Aquatic Sciences  
Supervised graduate student on independent project focusing on LED light effects on phytoplankton primary production at night
- 2008 Plankton dynamics - Auburn University - Fisheries, Aquaculture, and Aquatic Sciences  
Developed independent study for undergraduate student
- 2007 Great Lakes Science and Management - University of Michigan - School of Natural Resources  
Co-organizer of new graduate course introducing to the complexities of managing the Great Lakes

### TEACHING ASSISTANT

- 2001 Introduction to Biology - Georgia Institute of Technology - Biology  
Prepared and instructed biology laboratory exercises
- 2001 Study Abroad: Environmental Management in Northwestern Australia  
Michigan State University - Fisheries and Wildlife & Resource Development  
Organized, supervised, and taught twelve undergraduates
- 1999 Limnological and Fisheries Techniques - Michigan State University - Fisheries and Wildlife

- 1999      Developed and taught several laboratory and field learning exercises  
Field Ecology - Michigan State University - Kellogg Biological Station  
 Co-instructed intensive summer field ecological course
- 1996      Introductory Biology - University of North Carolina at Chapel Hill - Biology  
 Assisted with laboratory preparation and projects
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## **OUTREACH**

- 2005 - present      Freely share cultures of cyanobacteria and *Daphnia* with scientists around the world
- 2011 - present      Presented scientific lecture about aquatic foodwebs and their managements to daycares and prisons
- 2021      Organized a water quality workshop in west Alabama to update catfish farmers on lab projects
- 2021      Participated in an Extension event for Aquatic Resource Managers focused on algal blooms
- 2020      Led plankton-focused outreach event for thirty 5-12 graders at Waverly Hall Christian Academy
- 2019      Met with the City of Opelika Water Board to discuss their water quality issues
- 2019      Organized a water quality workshop in west Alabama aimed at training catfish farmers in phytoplankton enumeration
- 2019      Participated in outreach event led by College of Agriculture faculty and administrators to support Auburn University faculty how to write successful NSF proposals
- 2018      Led outreach event to help faculty prepare successful proposals to the NSF CAREER program
- 2015 - 2018      Participated in workshop organized by the Alabama Department of Environmental Management to educate state-wide water utilities about risks associated with cyanobacterial blooms in drinking water.
- 2017 - 2018      Participated in the Lee County Water Festival to teach hundreds of 4<sup>th</sup> graders about the importance of aquifers
- 2017 - 2018      Participated in outreach event led by the College of Agriculture's USDA-funded Science in Agriculture, Food and the Environment (S.A.F.E.) program to teach under-represented middle school students about freshwater plankton
- 2011 - 2017      Served as an expert witness to support a non-profit law firm defending the Ogeechee Riverkeeper related to a large fish kill on the river associated with industrial discharge
- 2016 - 2017      Participated in outreach event led by College of Agriculture faculty and administrators to support Auburn University faculty how to write successful NSF proposals
- 2017      Participated in outreach event led by REU Site PIs during the This is Research Symposium to train other Auburn University faculty how to write successful REU proposals and run effective REU programs
- 2017      Participated in a day-long Girl Scouts event aimed at educating the troop about water resources. program targeting incoming under-represented minority freshmen.
- 2017      Led discussion about undergraduate research opportunities for College of Sciences and Mathematics program targeting incoming under-represented minority freshmen.
- 2016      Led plankton-focused outreach event for twenty 6-7 year-olds participating in summer camp at Lee-Scott School
- 2016      Led two-week NSF Outreach Days tour of 12 minority serving institutions, including 7 tribal colleges, 3 HBCUs, and 2 HSIs, throughout the central US.
- 2016      Participated in ESA workshop organized by the Early Career Ecologist and Undergraduate Institutions Sections to share information about serving as an NSF rotator, panelist, and reviewer.
- 2015      Led NSF Outreach events at 2 minority serving institutions and one international conference
- 2015      ESA meeting session co-organizer with Drs. Henry Gholz and Daniel Stover; session title "Federal agency networking" including 36 representatives from 12 federal agencies.
- 2015      Webinar speaker associated with cyanobacterial bloom discussion mediated California State Water Resource Control Board, included many state and federal agency scientists and policy makers
- 2015      Participated in outreach event led by REU Site PIs to train other Auburn University faculty how to write successful REU proposals and run effective REU programs
- 2011 - 2014      Developed and organized prison seminar series called Sparks in Science (8 seminars during Spring 2012, 12 seminars during Spring 2013, and 9 seminars during Spring 2014)

- 2014 Webinar speaker associated with cyanobacterial bloom discussion mediated by Resource Media and the National Wildlife Federation
- 2014 Instructor at Troy University-Dothan Wiregrass Math, Science, Technology, and Leadership Academy; developed and conducted aquatic ecology workshop for elementary school teachers
- 2012 - 2014 Organized five water quality workshops (Orlando, FL, Chapel Hill, NC, and Auburn, AL) aimed at training state agency scientists in water quality sampling and analyses, including phytoplankton enumeration
- 2013 Participated in IAGLR educator day during the IAGLR conference
- 2012 Trained scientist from the Florida Fish and Wildlife Conservation Commission in phytoplankton enumeration
- 2012 Gave invited seminar about algal blooms and silt issues in Jackson Lake, Georgia, to Jackson Lake Homeowners Association with representatives from Georgia Power and Georgia EPD.
- 2012 Outreach activities at Montgomery Zoo describing aquatic ecology and water quality
- 2011 Led two discussions linking water quality and ecology with under-represented youths from Birmingham, Alabama, through Birmingham Water Authority outreach program
- 2011 Trained scientist from the University of Puerto Rico in phytoplankton enumeration
- 2011 Organized sessions educating undergraduate students about research experiences on and off-campus
- 2011 Worked with National Geographic photographer (Peter Essick) on eutrophication story
- 2010 Made available a simple, web-based model to predict blooms of algae and cyanobacteria in Alabama - <http://wilsonlab.com/forecasting.html>
- 2010 Developed large-scale collaboration with state agency scientists from Alabama, Florida, Tennessee, Georgia, and Kentucky to develop algal bloom forecasting models throughout southeastern US
- 2010 Created presentation to showcase NSF REU program that was shared with NSF program officers so that they could broadly distribute the presentation to other universities
- 2010 Served as an expert witness to support a non-profit law firm defending the development of a coal-fired power plant on a Georgia river
- 2010 Served as an expert witness to support the Montgomery Police Department on a suspected child drowning case
- 2010 Trained a scientist from the Tennessee Department of Environment and Conservation in water quality sampling and analysis
- 2009 Volunteered to develop and teach 10-week, summer course (Aquatic Ecology for Families) at Callaway Gardens (Pine Mountain, Georgia)

## **LEADERSHIP ROLES**

- 2021 - present Mentoring committee for Assistant Professor in the School of Fisheries
- 2021 - present Presidential Task Force for Equity and Opportunity, Subcommittee on Graduate Students - member - Auburn University
- 2021 - present Director for Undergraduate Research search committee - member - Auburn University
- 2020 - present Assistant Director for Instruction/Extension/Outreach - School of Fisheries, Aquaculture, and Aquatic Sciences – Auburn University
- 2020 - present Auburn University representative for NSF INCLUDES project led by Dr. Neil Lamb
- 2020 - present AU College of Agriculture – Curriculum Committee - Auburn University
- 2019 - present Graduate Program Officer - School of Fisheries, Aquaculture, and Aquatic Sciences – Auburn University
- 2019 - present AU College of Agriculture - Research advisory committee - Auburn University
- 2019 - present AU College of Agriculture - Graduate student recruitment committee - Auburn University
- 2019 - present Aquatic Chemist faculty search committee - chair - School of Fisheries, Aquaculture, and Aquatic Sciences - Auburn University
- 2018 - present Elected to serve on the National Harmful Algal Bloom Committee (3-year term)
- 2018 - present Coosa Riverkeeper Advisory Board member
- 2018 - present NSF Biological Sciences Research Experiences for Undergraduates Leadership Council
- 2018 - present AU University Writing committee - College of Agriculture representative - Auburn University

- 2017 - present AU College of Agriculture and AAES Proposal review team – founder/manager - Auburn University
- 2017 - present AU Graduation committee - co-chair - Auburn University
- 2008 - present AU Group in Ecology - committee co-chair - Auburn University
- 2017 - 2021 Mentoring committee for Assistant Professor in the Department of Biosystems Engineering
- 2019 - 2020 AU College of Agriculture - Education advisory committee - Auburn University
- 2018 - 2020 Georgia Environmental Protection Division Harmful Algal Bloom Advisory Committee
- 2017 & 2019-21 AU This is Research oral presentations judge for undergraduate and graduate students - Auburn University
- 2017 - 2020 AU Faculty Research committee - College of Agriculture representative - Auburn University
- 2021 10.5 US Symposium on Harmful Algae Scientific Advisory Committee; <http://ushabs.com/>
- 2021 SETAC meeting session co-organizer with Drs. Jim Lazorchak, Dawn Perkins, Kaytee Pokrzywinski, Arthur Zastepa, Amanda Foss, Joel Allen, and Bryan Brooks; session title “Harmful algal blooms across the freshwater to marine continuum: Toxins, detection, effects, monitoring, and management”
- 2021 ASLO meeting session co-organizer with Drs. David Hambright, Hans Paerl, Morgan Steffen-Wurch, Lee Krumholz, Delphine Latour, Michelle Burford, and Hans-Peter Grossart; session title “Life in the Cyanobacterial Phycosphere: Using Genomic Tools to Understand Bacterial, Archaeal, Fungal, and Viral Interactomes”
- 2020 SETAC meeting session co-organizer with Drs. Jim Lazorchak, Dawn Perkins, Kaytee Pokrzywinski, Arthur Zastepa, Amanda Foss, Joel Allen, and Bryan Brooks; session title “Harmful algal blooms across the freshwater to marine continuum: Toxins, detection, effects, monitoring, and management”
- 2019 - 2020 Administrative review of Dr. Joseph Tomasso, Director of the School of Fisheries, Aquaculture, and Aquatic Sciences - member - Auburn University
- 2017 - 2019 10<sup>th</sup> US Symposium on Harmful Algae – co-organizer with Alison Robertson (Dauphin Island Sea Lab), Matt Waters (AU), and David Hambright (University of Oklahoma), held November 2019 in Orange Beach, Alabama; <http://ushabs.com/>
- 2019 ASLO meeting session co-organizer with Drs. Patrick Crumrine, Gretchen Hoffmann, David Fields, Shane Rogers, and Sarah Cohen; session title “Exploring what makes undergraduate research experiences work: evidence from students and mentors”
- 2019 School of Fisheries, Aquaculture, and Aquatic Sciences oral presentations judge for undergraduate and graduate students - Auburn University
- 2017 - 2018 Administrative review of Dr. Royrickers Cook, Associate Provost and VP for University Outreach - member - Auburn University
- 2018 ASLO meeting session co-organizer with Drs. Bryan Brooks, Jeffery Steevens, and Meredith Howard; session title “Crossing disciplinary boundaries across the freshwater-marine continuum to advance the understanding of harmful algal blooms (HABs)”
- 2018 ASLO meeting session co-organizer with Drs. Ted Harris, Dedmer Van de Waal, Frances Pick, Peter Leavitt, and Susie Wood; session title “Cyanobacterial and algal metabolites: occurrence, ecology, prediction, and management”
- 2018 College of Agriculture review team for Writing Center proposals - member - Auburn University
- 2015 - 2017 College of Agriculture Diversity Committee - School representative - Auburn University
- 2017 Association of Southeastern Biologists meeting co-organizer of a session for the Southeastern Chapter of ESA session with Julie Tuttle and Matt Waters; session title “Space and time in southeastern ecosystems”
- 2017 ASLO meeting session co-organizer with Drs. Bryan Brooks, Chris Gobler, Raphael Kudela, Thad Scott, and Jeffery Steevens; session title “Crossing disciplinary boundaries across the freshwater-marine continuum to advance the understanding of harmful algal blooms”
- 2017 AU Water Resources Conference Planning committee - member - Auburn University
- 2017 College of Agriculture Grant Writer search committee - member - Auburn University
- 2010 - 2017 AU Graduation committee - member - Auburn University
- 2016 - 2017 Technical Advisory Committee - member - Alliance for Coastal Technologies - University of Michigan

2016 - 2017 Quantitative Ecologist faculty search committee - member - Department of Biological Sciences - Auburn University

2015 - 2018 XinTech (Bio Sciences) Ltd. - Advisory Board member

2016 - 2017 College of Agriculture Strategic Plan Task Force - member - Auburn University

2014 - 2015 AU Water Resources Council - member - Auburn University

2013 - 2015 Environmental Steering Committee for Auburn University Council for Energy, Environment, and Economic Research - member - Auburn University

2013 - 2015 University Council on Water Resources - Auburn University delegate

2012 - 2015 Alabama Prison Arts + Education program - member - Auburn University

2014 - 2016 National Science Foundation - program director - Population and Community Ecology cluster

2016 ASLO meeting session co-organizer with Dr. Matt Waters; session title "Cyanobacterial patterns and processes across scales: implications for water resource management in a changing climate"

2015 ESA meeting session co-organizer with Drs. Henry Gholz and Daniel Stover; session title "Federal agency networking" including 36 representatives from 12 federal agencies.

2011 - 2014 Developed a "Sparks in Science: A pilot science seminar series with the Alabama Prisons Arts + Education Program" in collaboration with Kyes Stevens and Doug Goodwin to organize science lectures at a local prison.

2013 IAGLR meeting session co-organizer with Drs. Stuart Ludsin, Edward Roseman, and Tim O'Brien; session title "Using environmental gradients to link patterns and processes in complex ecosystems"

2013 IAGLR meeting session co-organizer with Dr. Henry Vanderploeg; session title "Appreciating the paradox: adding phytoplankton back into aquatic foodwebs"

2013 IAGLR presentations judge for undergraduate and graduate students - Purdue University

2008 - 2012 AU Bike committee - member - Auburn University

2011 - 2012 AU Undergraduate Research and Creative Scholarship Forum planning committee - member - Auburn University

2011 - 2012 Organized and led undergraduate research symposium to introduce AU to undergraduate research opportunities on- and off-campus

2012 Louis Stokes Alliances for Minority Participation (LSAMP) poster presentation judge - Auburn University

2012 AU Research Week poster presentations judge for undergraduate and graduate students - Auburn University

2011 ASLO meeting session co-organizer with Dr. Joseph Montoya; session title "Eutrophication across aquatic systems: causes, consequences, and controls"

2011 ASLO meeting session co-organizer with Dr. Orlando Sarnelle; session title "Intraspecific variation: role in the ecology of harmful phytoplankton"

2010 Judge for Buell/Braun awards at ESA meeting in Pittsburgh, PA

2007 Science Judge for Southeast Michigan High School Science Fair

2007 Volunteer for National Ocean Science Bowl held at the University of Michigan

2004 - 2005 Co-organizer of an evening session at two annual meetings of the Ecological Society of America  
Title: How to succeed in ecology: advice from eminent ecologists and rising stars in ecology

2004 - 2005 Co-organizer of the IGERT seminar series at the Georgia Institute of Technology

2003 - 2005 Student Section Secretary/Webmaster - Ecological Society of America

2004 Founder of the Southeastern Ecology and Evolution Conference (SEEC)  
Georgia Institute of Technology - School of Biology

2003 Strategies for Ecology Education, Development and Sustainability (SEEDS) mentor  
Ecological Society of America - 88<sup>th</sup> Annual Meeting in Savannah, Georgia

2001 - 2002 Senator for Student Government Association - Georgia Institute of Technology

2000 - 2001 Travel Grant Committee - Michigan State University - Fisheries and Wildlife Department

1999 - 2001 Advisor for Triathlon Club - Michigan State University

1993 - 1994 Tutor for fellow undergraduates studying Biology and Chemistry - Young Harris College

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## CONFERENCE PRESENTATIONS (\* PRESENTER; # STUDENT AUTHOR)

- Valle-Pombrol, A.\*, A. Comas-Gonzalez, D. Castro-Rodriguez, A. Garcia-Moya, and **A. E. Wilson**. 2021. Potentially toxic planktic cyanobacteria from the Abreus Reservoir, central-southern Cuba. 19<sup>th</sup> International Conference on Harmful Algae. Virtual.
- Valle-Pombrol, A.\*, A. Comas-Gonzalez, D. Castro-Rodriguez, A. Garcia-Moya, and **A. E. Wilson**. 2021. Potentially toxic planktic cyanobacteria from the Abreus Reservoir, central-southern Cuba. VIII Congreso Sobre Manejo e Ecosistemas y Biodiversidad. Havana, Cuba.
- Miller, M. M.\*, D. A. Beebe, **A. E. Wilson**, P. G. Matson#, T. Davis, and A. Robertson. 2021. Coastal cyanobacterial harmful algal bloom dynamics in Mississippi and Alabama. 19<sup>th</sup> International Conference on Harmful Algae. Virtual.
- Miller, M. M.\*, D. A. Beebe, **A. E. Wilson**, P. G. Matson#, T. Davis, and A. Robertson. 2021. Coastal cyanobacterial harmful algal bloom dynamics in Mississippi and Alabama. Carolinas and Southeast SETAC Joint Regional Chapter Meeting. Virtual.
- Fernandez-Figueroa, E. G.\*#, S. Rogers, and **A. E. Wilson**. 2021. Commercially available unoccupied aerial systems for monitoring harmful algal blooms: a comparative study. 10.5 US Symposium on Harmful Algae. Virtual meeting.
- Belfiore, A. P\*#, R. P. Buley#, E. G. Fernandez-Figueroa#, M. F. Gladfelter#, and **A. E. Wilson**. 2021. Zooplankton improve water quality in farm pond aquaculture. 10.5 US Symposium on Harmful Algae. Virtual meeting.
- Gladfelter, M. F.\*#, R. P. Buley#, A. P. Belfiore#, E. G. Fernandez-Figueroa#, B. L. Gerovac#, N. D. Baker#, and **A. E. Wilson**. 2021. Available dissolved nitrogen form dictates pigment content in cyanobacterial cells. 10.5 US Symposium on Harmful Algae. Virtual meeting.
- Gladfelter, M. F.\*#, R. P. Buley#, A. P. Belfiore#, E. G. Fernandez-Figueroa#, B. L. Gerovac#, N. D. Baker#, and **A. E. Wilson**. 2021. Available dissolved nitrogen form dictates pigment content in cyanobacterial cells. Association for the Sciences of Limnology and Oceanography. Virtual meeting.
- Cai, H.\*, J. E. Beyer, K. V. Cook#, L. R. Krumholz, M. M. Steffen, **A. E. Wilson**, H. W. Paerl, and K. D. Hambright. 2021. Genome-based classification and comparative genomics of *Microcystis*, reveals insights into *Microcystis* species evolution and environmental adaptation. Association for the Sciences of Limnology and Oceanography. Virtual meeting.
- Fernandez-Figueroa, E. G.\*# and **A. E. Wilson**. 2021. Local adaptation mediates direct and indirect effects of multiple stressors on consumer fitness. Association for the Sciences of Limnology and Oceanography. Virtual meeting.
- Fernandez-Figueroa, E. G.\*#, S. Rogers, and **A. E. Wilson**. 2021. Commercially available unoccupied aerial systems for monitoring harmful algal blooms: a comparative study. 70<sup>th</sup> Annual Meeting of the Southeastern Section of the Geological Society of America. Auburn, Alabama.
- Odom, S.\*#, H. Boso, S. Bowling, S. Brownell, S. Cotner, C. Creech, A. G. Drake, S. Eddy, S. Fagbodun, S. Hebert, A. C. James, J. Just, J. R. St. Juliana, M. Shuster, S. K. Thompson, R. Whittington, B. D. Wills, **A. E. Wilson**, K. R. Zamudio, Min Zhong, C. J. Ballen. 2021. Meta-analysis of gender performance gaps in undergraduate natural science courses. Virtual Society for the Advancement of Biology Education Researcher Conference.
- Driessen, E. P.\*#, S. B. Ramsey, S. Wood, **A. E. Wilson**, and C. J. Ballen. 2021. Group work and student performance in biology: A meta-analysis. Virtual Society for the Advancement of Biology Education Researcher Conference.
- Cabral, D.\*#, **A. E. Wilson**, and M. Miller. 2021. The effect of implicit learning on motor performance under psychological pressure: a meta-analysis. 2021 Virtual North American Society for the Psychology of Sport and Physical Activity conference.
- Gladfelter, M. F.\*#, R. P. Buley#, A. P. Belfiore#, E. G. Fernandez-Figueroa#, B. L. Gerovac#, N. D. Baker#, and **A. E. Wilson**. 2021. Available dissolved nitrogen form dictates pigment content in cyanobacterial cells. This is Research: Student symposium. Auburn, Alabama.
- Gladfelter, M. F.\*# and **A. E. Wilson**. 2020. Nitrogen form dictates use and uptake rate in cyanobacterial communities. 2020 College of Agriculture Graduate Student Showcase. Auburn University. Auburn, Alabama. (poster) **(1<sup>st</sup> place MS student poster presentation)**
- Buley, R. P.\*#, H. E. Correia#, A. Abebe, T. B. Issa#, and **A. E. Wilson**. 2020. Predicting microcystin

- concentrations in freshwater lakes and reservoirs around the world: assessing environmental variables. 2020 College of Agriculture Graduate Student Poster Showcase. Auburn University. Auburn, Alabama. (poster) **(1<sup>st</sup> place PhD student poster presentation)**
- Belfiore, A. P.\*#, R. P. Buley#, E. G. Fernandez-Figueroa#, M. F. Gladfelter#, and **A. E. Wilson**. 2020. Biomanipulation with zooplankton in farm pond aquaculture. 2020 College of Agriculture Graduate Student Poster Showcase. Auburn University. Auburn, Alabama.
- Fernandez-Figueroa, E. G.\*#, S. Rogers, and **A. E. Wilson**. 2020. Commercially available UAV sensors for monitoring harmful algal blooms in small eutrophic systems: a comparative study. 2020 College of Agriculture Graduate Student Poster Showcase. Auburn University. Auburn, Alabama.
- Buley, R. P.\*# and **A. E. Wilson**. 2020. Elucidating the causes and controls of freshwater harmful algal blooms. USGS New York Water Science Center. Troy, New York.
- Gladfelter, M. F.\*# and **A. E. Wilson**. 2020. Dissolved nitrogen-form dictates uptake and metabolic efficiency in phytoplankton. Auburn University's School of Fisheries, Aquaculture, & Aquatic Sciences 2020 Student Symposium. Auburn, Alabama.
- Chalkowski, K\*#, J. Brownlee#, C. A. Lepczyk, **A. E. Wilson**, and S. Zohdy. 2020. Raining cats, dogs and parasites: Global patterns of parasitism in free-roaming cats and dogs. Ecological Society of America. Salt Lake City, Utah.
- Matson, P.\*#, M. M. Miller, T. Davis, **A. E. Wilson**, and A. Robertson. 2019. Distribution, composition, and toxigenicity of microbial plankton assemblages across a salinity gradient following freshwater release of the Bonnet Carré Spillway into Mississippi Sound. 10th US Symposium on Harmful Algae. Orange Beach, Alabama.
- Miller, M. M.\*#, **A. E. Wilson**, B. Dzwonkowski, P. G. Matson#, T. Davis, and A. Robertson. 2019. Spatiotemporal trends and environmental drivers of cyanobacterial blooms and microcystin production in the Northern Gulf of Mexico following unprecedented freshwater discharge into coastal zones from the 2019 Bonnet Carré Spillway release. 10th US Symposium on Harmful Algae. Orange Beach, Alabama.
- Fernandez-Figueroa, E. G.\*#, K. Cruz#, and **A. E. Wilson**. 2019. Drone imagery for algal bloom monitoring. 10th US Symposium on Harmful Algae. Orange Beach, Alabama.
- Wilson, A. E.\***, E. Fernandez-Figueroa#, R. P. Buley#, M. U.G. Barros#, W. McClimans, and D. Harrison. 2019. Can intake depth be used as a tool for managing toxic cyanobacterial blooms in surface drinking water reservoirs? 10th US Symposium on Harmful Algae. Orange Beach, Alabama.
- Adams, A. C.\*#, R. P. Buley#, B. Garner#, and **A. E. Wilson**. 2019. Evaluating different approaches for controlling toxic algal blooms. 10th US Symposium on Harmful Algae. Orange Beach, Alabama.
- Buley, R. P.\*#, T. Issa#, H. E. Correia#, and **A. E. Wilson**. 2019. Predicting microcystin occurrence in freshwater lakes and reservoirs on a global scale using machine learning and generalized additive modeling. 10th US Symposium on Harmful Algae. Orange Beach, Alabama.
- Gladfelter, M. F.\*# and **A. E. Wilson**. 2019. Changes in supportive bacterial assemblages in response to nutrient form and concentration in cyanobacterial communities. 10th US Symposium on Harmful Algae. Orange Beach, Alabama.
- Buley, R. P.\*#, H. E. Correia#, T. Issa#, A. Abebe, and **A. E. Wilson**. 2019. Generalized additive modeling to predict cyanobacterial toxin occurrence in freshwater lakes and reservoirs on global scale. Southeastern Ecology and Evolution Conference. Auburn, Alabama.
- Buley, R. P.\*#, H. E. Correia#, T. Issa#, A. Abebe, and **A. E. Wilson**. 2019. Generalized additive modeling to predict cyanobacterial toxin occurrence in freshwater lakes and reservoirs on global scale. 2019 College of Agriculture Graduate Student Poster Showcase. Auburn, Alabama.
- Fernandez-Figueroa, E. G.\*#, K. Cruz#, and **A. E. Wilson**. 2019. Drone imagery for algal bloom monitoring. 2019 College of Agriculture Graduate Student Poster Showcase. Auburn, Alabama.
- David, K. T.\*#, **A. E. Wilson**, and K. M. Halanych. 2019. Sequencing disparity in the genomic era. Evolution 2019. Providence, Rhode Island.
- Green, W. R., A. Hoos, V. Roland, and **A. E. Wilson**. 2019. Combining estimates of nutrient loading, waterbody morphometry, and flushing rate to examine lake and reservoir susceptibility to eutrophication. North American Lake Management Society's 39<sup>th</sup> Annual Symposium. Burlington, Vermont.
- Buley, R. P.\*#, M. F. Gladfelter#, and **A. E. Wilson**. 2019. Integrated methods combat cyanobacterial blooms and off-flavors in the aquaculture and drinking water industries. This is Research: Student symposium. Auburn, Alabama.

- Johnston, L.\*# and **A. E. Wilson**. 2019. Exploring the removal of excess nutrients and heavy metals from polluted waterbodies through the use of macrophytes and microorganisms. This is Research: Student symposium. Auburn, Alabama. (poster)
- Chislock, M.\*#, L. Denecke#, M. S. Sepulveda, O. Sarnelle, and **A. E. Wilson**. 2019. Intraspecific variation in lake *Daphnia* affects response of algae and a cyanotoxin to fertilization. International Association of Great Lakes Research. The College of Brockport, State University of New York. Brockport, New York.
- Wilson, A. E.**, J. L. Pollock#, I. Billick, C. Domingo, E. Fernandez-Figueroa#, E. Nagy, T. D. Steury, and A. Summers\*. 2019. Assessing science training programs: structured undergraduate research programs make a difference. Association for the Sciences of Limnology and Oceanography. San Juan, Puerto Rico.
- Wilson, A. E.**, J. L. Pollock#, I. Billick, C. Domingo, E. Fernandez-Figueroa#, E. Nagy, T. D. Steury, and A. Summers\*. 2019. Assessing science training programs: structured undergraduate research programs make a difference. The Society for Integrative & Comparative Biology. Tampa, Florida. (poster)
- Wilson, A. E.\***, Yang, Z., R. P. Buley#, E. Fernandez-Figueroa#, M. Barros#, and S. Rajendran#. 2019. Hydrogen peroxide treatment promotes chlorophytes over toxic cyanobacteria in a hyper-eutrophic aquaculture pond. World Aquaculture Society. New Orleans, Louisiana.
- Buley, R. P.\*# and **A. E. Wilson**. 2019. Understanding microcystin patterns in freshwater ecosystems: a meta-analysis. World Aquaculture Society. New Orleans, Louisiana.
- Smoot, S. C.\*#, S. Zohdy, T. S. Schwartz, and **A. E. Wilson**. 2019. Meta-analysis of publication year and latitude on the Dilution Effect Hypothesis. The Society for Integrative & Comparative Biology. Tampa, Florida.
- Powers, M. J.\*#, **A. E. Wilson**, K. B. Heine#, and G. E. Hill. 2019. A meta-analysis of mate choice in copepods. The Society for Integrative & Comparative Biology. Tampa, Florida.
- Davenport, Z.\*# and **A. E. Wilson**. 2018. Can nitrogen to phosphorus ratios be used to improve the quality of drinking water reservoirs? Gallaudet University Undergraduate Research Symposium. Gallaudet University. Washington, D.C. (poster)
- Chalkowski, K.\*#, **A. E. Wilson**, C. Lepczyk, and S. Zohdy. 2018. Who let the cats out?: A global meta-analysis on risk of parasitic infection in domestic cats (*Felis catus*). 2018 School of Forestry and Wildlife Sciences Graduate Student Poster Showcase. Auburn University, Auburn, Alabama. (poster)
- Lamb, A. N.\*#, S. E. Leinbach#, M. N. Waters, and **A. E. Wilson**. 2018. Linking photosynthetic pigments and taxonomy in cyanobacteria blooms: implications for water quality management in the Southeast United States. 2018 College of Agriculture Graduate Student Poster Showcase. Auburn University. Auburn, Alabama. (poster) **(2<sup>nd</sup> place student poster presentation)**
- Buley, R. P.\*# and **A. E. Wilson**. 2018. Understanding global microcystin patterns in freshwater ecosystems: a meta-analysis. World Aquaculture Society. 2018 College of Agriculture Graduate Student Poster Showcase. Auburn University. Auburn, Alabama. (poster)
- Lamb, A. N.\*#, S. E. Leinbach#, M. N. Waters, and **A. E. Wilson**. 2018. Linking photosynthetic pigments and taxonomy in cyanobacteria blooms: implications for water quality management in the Southeast United States. Alabama Water Resources Conference, Orange Beach, Alabama. (poster) **(1<sup>st</sup> place student poster presentation)**
- Fernandez-Figueroa, E.\*#, D. Harrison, W. McClimans, and **A. E. Wilson**. 2018. Can N:P be used to predict taste and odor events in surface drinking water sources? EPA Region 6 Numeric Nutrient Criteria Technical Workshop. Dallas, Texas.
- Fernandez-Figueroa, E.\*#, D. Harrison, W. McClimans, and **A. E. Wilson**. 2018. Effects of TN:TP on taste and odor compound production in Alabama drinking water reservoirs. 34<sup>th</sup> Congress of the International Society of Limnology. Nanjing, China.
- Wilson, A. E.\***, M. F. Chislock#, R. B. Kaul#, K. A. Durham#, and O. Sarnelle. 2018. Consumer adaptation mediates top-down regulation of ecosystems across a productivity gradient. 34<sup>th</sup> Congress of the International Society of Limnology. Nanjing, China.
- Wilson, A. E.\***, E. G. Fernandez-Figueroa#, R. P. Buley#, M. U.G. Barros#, W. McClimans, and D. Harrison. 2018. Do toxic cyanobacterial blooms threaten Alabama's surface drinking water sources. Alabama/Mississippi American Water Works Association Conference. Montgomery, Alabama.
- Fernandez-Figueroa, E.\*#, D. Harrison, W. McClimans, and **A. E. Wilson**. 2018. Can N:P be used to predict taste and odor events in surface drinking water sources? EPA Region 4 Harmful Algal Bloom Southeastern Regional Workshop. Atlanta, Georgia.
- Fernandez-Figueroa, E.\*# and **A. E. Wilson**. 2018. Effects of light, temperature, and carbon source on cyanotoxin

- and off-flavor compound production. This is Research: Student symposium. Auburn, Alabama.
- Buley, R. P.\*#, Z. Yang, and **A. E. Wilson**. 2018. Integrated methods combat cyanobacterial blooms in aquaculture. Auburn University's School of Fisheries, Aquaculture, & Aquatic Sciences 2018 Student Symposium. Auburn, Alabama.
- Buley, R. P.\*#, Z. Yang, and **A. E. Wilson**. 2018. Combining biological and chemical controls to combat toxic cyanobacterial blooms. This is Research: Student symposium. Auburn, Alabama.
- Gómez-Maldonado, D.\*#, M. Hornus#, B. Vega, I. Filpponen, **A. E. Wilson**, M. Waters, and M. S. Peresin. 2018. Cellulose-based material for removal of microcystin from contaminated surface water sources. Forest Products Society 72<sup>nd</sup> International Convention. Madison, Wisconsin.
- Gómez-Maldonado, D.\*#, M. Hornus#, B. Vega, I. Filpponen, **A. E. Wilson**, M. Waters, and M. S. Peresin. 2018. Cellulose-cyclodextrin co-polymer for removal of microcystin on water remediation. American Chemical Society. New Orleans, Louisiana.
- Wilson, A. E.\***. 2018. Fostering student-driven, peer-reviewed publications through classroom engagement. Conversations in Celebration of Teaching. Auburn University, Auburn, Alabama.
- Fernandez, E.\*#, D. Harrison, and W. McClimans, and **A. E. Wilson**. 2017. Can taste and odor compounds predict harmful algal blooms in surface drinking water sources? College of Agriculture graduate student research poster showcase. Auburn University, Auburn, Alabama. (poster) **(Winner of \$200 2<sup>nd</sup> place MS Sustainable Ecosystems and Renewable Resource Management category)**
- Kuntz, R.\*#, T. Knappenberger, E. Brantley, **A. E. Wilson**, and J. Stoeckel. 2017. The lethal effects of stormwater toxicity on *Daphnia pulex* populations. College of Agriculture graduate student research poster showcase. Auburn University, Auburn, Alabama. (poster) **(Honorable Mention student presentation)**
- Kuntz, R.\*#, T. Knappenberger, E. Brantley, **A. E. Wilson**, and J. Stoeckel. 2017. Stormwater toxicity lethal effects on *Daphnia pulex*. Alabama Water Resources Conference. Orange Beach, Alabama. (poster)
- Fernandez, E.\*#, D. Harrison, and W. McClimans, and **A. E. Wilson**. 2017. Can taste and odor compounds predict harmful algal blooms in surface drinking water sources? 9<sup>th</sup> US Symposium on Harmful Algae. Baltimore, Maryland. (poster) **(1<sup>st</sup> place student poster presentation)**
- Fernandez, E.\*#, D. Harrison, and W. McClimans, and **A. E. Wilson**. 2017. Microcystin and taste and odor compound dynamics in Alabama's surface drinking water sources. Alabama/Mississippi American Water Works Association Conference. Point Clear, Alabama.
- Wilson, A. E.\***, Chislock, M. F.#, O. Sarnelle, L. M. Jernigan#, V. R. Anderson#, and A. Abebe. 2017. Consumer adaptation mediates top-down regulation of ecosystems across a productivity gradient. DynaTrait 2017. Hannover, Germany.
- Wilson, A. E.**, M. F., Chislock#, O. Sarnelle, B. K. Olsen#, E. Doster#, and E. G. Fernandez\*#. 2017. Large effects of consumer offense on ecosystem structure and function: Implications for water resource management. Association of Southeastern Biologists. Montgomery, Alabama.
- Fernandez, E.\*#, B. K. Olsen#, M. F. Chislock#, A. Rebelein#, W. Thornton, D. Hilyer, and **A. E. Wilson**. 2017. Eutrophication mediates complex interactions between cyanobacteria and diatoms that influence taste and odor events in a drinking water reservoir. Association for the Sciences of Limnology and Oceanography. Honolulu, Hawaii.
- Wilson, A. E.\***, M. F. Chislock#, B. K. Olsen#, R. A. Wright, and K. K. Schrader. 2017. Forecasting toxic cyanobacterial blooms throughout the southeastern U.S. Association for the Sciences of Limnology and Oceanography. Honolulu, Hawaii.
- Wilson, A. E.\*** 2016. Do harmful algal blooms threaten freshwater resources in Alabama? Alabama Water Resources Conference. Orange Beach, Alabama.
- Wilson, A. E.\***, R. A. Wright, and K. K. Schrader. 2016. Do toxic cyanobacterial blooms threaten Alabama's freshwater resources? This is Research Faculty Symposium. Auburn University, Auburn, Alabama. (poster)
- Wilson, A. E.\*** 2016. Do toxic cyanobacterial blooms threaten freshwater resources in the southeastern U.S.? Georgia Environmental Conference. Jekyll Island, Georgia.
- Wilson, A. E.\*** 2016. Do toxic cyanobacterial blooms threaten freshwater resources in Alabama? Alabama/Mississippi American Water Works Association Conference. Montgomery, Alabama.
- Delaney, M. A.\*#, E. J. Sikora, A. A. ArchMiller, D. P. Delaney, and **A. E. Wilson**. 2016. Fungicide effectiveness on soybean diseases in the southeastern United States: a meta-analysis. American Phytopathological Society 2016 Rust Symposium. Pensacola Beach, Florida.
- Wilson, A. E.\***, J.-M. E. Kasinak#, B. M. Holt#, and M. F. Chislock#. 2015. Benchtop fluorometry of

- phycocyanin as a rapid approach for estimating cyanobacterial biovolume. 8<sup>th</sup> US Symposium on Harmful Algae. Long Beach, California.
- Wilson, A. E.\***, B. Olsen#, M. F. Chislock#, A. Rebelein#, A. Gamble-Coker, W. Thornton, and D. Hilyer. 2015. Can ecological principles be used to solve taste and odor issues in drinking water reservoirs? American Water Works Association Conference and Exposition. Anaheim, California.
- Olsen, B. K.\*#, M. F. Chislock#, and **A. E. Wilson**. 2015. Interactions between nitrogen concentration and nitrogen-to-phosphorus ratio mediate off-flavor in a drinking water reservoir. Alabama Fisheries Association annual meeting. Prattville, Alabama. **(1<sup>st</sup> place student presentation)**
- Gay, H., S. Salzer, R. Phillips, X. Dana, J. Wedincamp, M. F. Chislock#, B. K. Olsen#, **A. E. Wilson**, and J. E. Schneider, Jr.\*. 2015. Algae diversity in Georgia farm ponds. Georgia Academy of Sciences. Georgia College and State University. Milledgeville, Georgia.
- Palmer, K. K.\*#, K. R. Lohse, **A. E. Wilson**, and L. E. Robinson. 2015. Motor ability and cognition in children: a systematic review and meta-analysis. North American Society for the Psychology of Sport and Physical Activity. Portland, Oregon.
- Koch, R. E.\*#, **A. E. Wilson**, and G. E. Hill. 2015. The impact of carotenoid intake on the physiological effects of supplementation in ornamented bird species. The Society of Integrative & Comparative Biology. West Palm Beach, Florida.
- Irwin, J. M.\*#, **A. E. Wilson**, and K. K. Palmer#, and L. E. Robinson. 2015. Motor competence and physical activity in school-age children: a meta-analysis. SHAPE America National Convention & Exposition. Seattle, Washington. **(Winner of \$250 Research Council Graduate Student Research Award)**
- Robertson, A.\*, **A. E. Wilson**, and J. Coyn. 2014. Cyanotoxins in the Mobile-Tensaw Delta: an emerging threat to ecosystem health and resilience. 16<sup>th</sup> International Conference on Harmful Algae. Wellington, New Zealand.
- Weaver, R. J.\*#, **A. E. Wilson**, and G. E. Hill. 2014. Signals of individual quality from carotenoid-pigmented plumage: a meta-analysis of yellow and red carotenoids. American Ornithologists' Union. Estes Park, Colorado.
- Newcomer, B. W., P. H. Walz, M. D. Givens, and **A. E. Wilson**. 2014. Vaccinal prevention of reproductive disease due to bovine viral diarrhea virus: a meta-analysis. Phi Zeta Research Day. Auburn University, Auburn, Alabama.
- Newcomer, B. W., P. H. Walz, M. D. Givens, and **A. E. Wilson**. 2014. Vaccinal prevention of reproductive disease due to bovine viral diarrhea virus: a meta-analysis. Joint meeting of the 6th U.S. Bovine Viral Diarrhea Virus (BVDV) Symposium and European Society of Veterinary Virology (ESVV) Pestivirus Symposium. Kansas City, Missouri.
- Newcomer, B. W., P. H. Walz, M. D. Givens, and **A. E. Wilson**. 2014. Vaccinal prevention of reproductive disease due to bovine viral diarrhea virus: a meta-analysis. Joint American Association of Veterinary Laboratory Diagnosticians (AAVLD) and the United States Animal Health Association (USAHA) meeting. Kansas City, Missouri.
- Olsen, B. K.\*#, M. F. Chislock#, and **A. E. Wilson**. 2014. Interactions between nitrogen concentration and nitrogen-to-phosphorus ratio mediate off-flavor in a drinking water reservoir. Association for the Sciences of Limnology and Oceanography. Portland, Oregon.
- Wilson, A. E.\***, Kasinak, J-M.#, and B. Holt#. 2014. Phycocyanin fluorometric analysis: a new method for estimating cyanobacterial abundance. NALMS Southeastern Lake and Watershed Management Conference. Asheville, North Carolina.
- Stevens, K., D. Goodwin, and **A. E. Wilson**. 2014. Bridging a curriculum gap in prisoner education. Auburn University Outreach Symposium. Auburn, Alabama.
- Kasinak, J-M.\*#, C. Bishop#, and **A. E. Wilson**. 2013. Do grass carp consume *Lyngbya wollei*? MidSouth Aquatic Plant Management Society. Tunica, Mississippi.
- Doster, E.\*#, M. F. Chislock#, J. F. Roberts, J. Kottwitz, and **A. E. Wilson**. 2013. Recognition of an important water quality issue at zoos: prevalence and potential threat of toxic cyanobacteria. Honors College Research Colloquium. Auburn University, Auburn, Alabama.
- Dye, T.\*#, M. Elliott, L. Sisk, and **A. E. Wilson**. 2013. Developing and contrasting nutrient criteria thresholds for four Alabama reservoirs. Alabama Water Resources Conference. Orange Beach, Alabama.
- Doster, E.\*#, M. F. Chislock#, J. F. Roberts, J. Kottwitz, and **A. E. Wilson**. 2013. Recognition of an important water quality issue at zoos: prevalence and potential threat of toxic cyanobacteria. American Association of Zoo Veterinarians. Salt Lake City, Utah.

- Stein, S. R.\*#, A. E. Wilson, G. Bowen, C. D. Troy, and T. O. Höök. 2013. Habitat characterization of southern Lake Michigan river plumes: implications for fish recruitment. American Fisheries Society. Little Rock, Arkansas.
- Chislock, M. F.\*#, O. Sarnelle, B. K. Olsen#, E. Doster#, and A. E. Wilson. 2013. Large effects of consumer offense on ecosystem structure and function. Ecological Society of America. Minneapolis, Minnesota.
- Jameel, M. Y.\*#, G. Bowen, A. E. Wilson, T. O. Höök, S. R. Stein, C. R. Roswell, and E. F. Grimm#. 2013. Biological and water quality characterization of Lake Michigan plumes. International Association of Great Lakes Research. Purdue University, West Lafayette, Indiana.
- Wilson, A. E.\*, S. Stein#, E. F. Grimm#, C. Roswell#, Y. Jameel#, C. Troy, G. Bowen, and T. O. Höök. 2013. Do rivers mediate water quality in nearshore areas of Lake Michigan? International Association of Great Lakes Research. Purdue University. West Lafayette, Indiana.
- Doster, E.\*#, M. F. Chislock#, J. Kottwitz, and A. E. Wilson. 2013. A survey of moat water quality at the Montgomery Zoo (Alabama). 27<sup>th</sup> National Conference on Undergraduate Research (NCUR). University of Wisconsin-La Crosse, Wisconsin.
- Doster, E.\*#, M. F. Chislock#, J. Kottwitz, and A. E. Wilson. 2013. A survey of moat water quality at the Montgomery Zoo (Alabama). Auburn University Research Week. Auburn University, Auburn, Alabama. (poster) **(3<sup>rd</sup> place STEM poster presentation)**
- Kasinak, J-M.\*#, B. Holt#, and A. E. Wilson. 2013. Phycocyanin fluorometric analysis: a new method for estimating cyanobacterial abundance. Auburn University Research Week. Auburn University, Auburn, Alabama.
- Havird, J. C.\*#, A. E. Wilson, and S. R. Santos. 2013. The effects of shrimp grazing on the microbial communities of Hawaiian anchialine habitats. Auburn University Research Week. Auburn University, Auburn, Alabama. **(2<sup>nd</sup> place oral presentation)**
- Havird J. C.\*#, R. P. Henry, A. E. Wilson, and S. R. Santos. 2013. A meta-analysis of salinity-induced changes in gene expression with new data from *Halocaridina rubra* (Crustacea: Atyidae). Southeastern Ecology and Evolution Conference. University of Central Florida, Orlando, FL.
- Grimm, E. F.\*#, C. Troy, S. Stein, A. E. Wilson, and T. O. Höök. 2013. Characterization and mapping of river plumes in southern Lake Michigan. International Association of Great Lakes Research. Purdue University, West Lafayette, Indiana.
- Stein, S. R.\*#, C. R. Roswell#, E. Grimm#, C. D. Troy, G. Bowen, A. E. Wilson, and T. O. Höök. 2013. Habitat characterization of southern Lake Michigan river plumes: implications for fish recruitment. International Association of Great Lakes Research. Purdue University, West Lafayette, Indiana.
- Chislock, M. F.\*#, K. G. LeMay#, and A. E. Wilson. 2013. Ecological stoichiometry and the control of harmful cyanobacterial blooms: an empirical test of a well-established tenet. International Association of Great Lakes Research. Purdue University, West Lafayette, Indiana.
- Kasinak, J-M.\*#, B. Holt#, and A. E. Wilson. 2013. Phycocyanin fluorometric analysis: a new method for estimating cyanobacterial abundance. Auburn University Graduate Student Council Forum. Auburn University, Auburn, Alabama. **(Outstanding oral presentation award)**
- Havird, J. C.#, A. E. Wilson, and S. R. Santos. 2013. The effects of shrimp grazing on the microbial communities of Hawaiian anchialine habitats. Auburn University Graduate Student Council Forum. Auburn University, Auburn, Alabama. **(Outstanding oral presentation award)**
- Chislock, M. F.\*#, V. R. Anderson#, L. M. Jernigan#, O. Sarnelle, and A. E. Wilson. 2013. Consequences of nutrient enrichment and herbivore adaptation to toxic cyanobacteria for phytoplankton in lakes. Auburn University Graduate Student Council Forum. Auburn University, Auburn, Alabama.
- Havird, J. C.#, A. E. Wilson, and S. R. Santos. 2013. The effects of shrimp grazing on the microbial communities of Hawaiian anchialine habitats. Sigma Xi Student Research Showcase: A Competition for Virtual Research Presentations. Online conference. **(2<sup>nd</sup> place oral presentation in Graduate Ecology and Evolution section)**
- Laird, S. G.\*# and A. E. Wilson. 2012. How can we increase connectedness to nature? North American Association for Environmental Education. Oakland, California.
- Holt, B.\*#, J. Kasinak#, and A. E. Wilson. 2012. Developing a new method using phycocyanin to quickly and reliably estimate cyanobacterial biomass. Annual Biomedical Research Conference for Minority Students. San Jose, California. (poster)
- Goessling, J. M.\*#, M. T. Mendonça, and A. E. Wilson. 2012. A meta-analytic approach to comparing indices of stress in vertebrates: Does heterophil:lymphocyte ratio reveal similar degrees of stress as circulating

- corticosterone concentration? The Society of Integrative & Comparative Biology. Charleston, South Carolina. **(1<sup>st</sup> place student poster)**
- Wilson, A. E.\***, R. A. Wright, K. K. Schrader, G. L. Curvin, B. H. Rosen, and J. L. Graham. 2012. Creating cost-effective regional algal bloom monitoring networks: Extending from the Southeast to the Midwest. 37<sup>th</sup> Annual Great Plains Limnology Conference. University of Arkansas, Fayetteville, Arkansas.
- Wilson, A. E.\***, R. A. Wright, K. K. Schrader, G. L. Curvin, B. H. Rosen, and J. L. Graham. 2012. Creating cost-effective regional algal bloom monitoring networks: The Southeast as a case study. University of North Carolina at Chapel Hill Water and Health Symposium. Chapel Hill, North Carolina.
- Wilson, A. E.\***, R. A. Wright, K. K. Schrader, G. L. Curvin, B. H. Rosen, and J. L. Graham. 2012. Creating cost-effective regional algal bloom monitoring networks: Extending beyond Alabama. Alabama Water Resources Conference. Orange Beach, Alabama.
- Wilson, A. E.\*** 2012. Warm-water aquatic ecology REU program at Auburn University. National Science Foundation Research Experiences for Undergraduates workshop. Washington, D.C. (poster)
- Chislock, M. F.\*#, V. R. Anderson#, O. Sarnelle, and **A. E. Wilson**. 2012. Consequences of nutrient enrichment and herbivore adaptation for phytoplankton in lakes. Auburn University Research Week. Auburn University, Auburn, Alabama.
- Stein, S.\*#, C. Roswell#, **A. E. Wilson**, G. Bowen, C. D. Troy, and T. Höök. 2012. Habitat characterization of southern Lake Michigan river plumes: Implications for fish recruitment. International Association of Great Lakes Research. Cornwall, Ontario.
- Grimm, E.#, C. D. Troy, S. Stein#, C. Roswell, T. O. Höök, and **A. E. Wilson**. 2012. Field characterization of river plumes and source water in southern Lake Michigan. International Association of Great Lakes Research. Cornwall, Ontario.
- Wilson, A. E.\***, R. A. Wright, K. K. Schrader, G. L. Curvin, B. H. Rosen, and J. L. Graham. 2012. Creating cost-effective regional algal bloom monitoring networks: The Southeast as a case study. 21<sup>st</sup> SE NALMS Southeastern Lake and Watershed Management Conference. Columbus, Georgia.
- Chislock, M. F.\*#, V. R. Anderson#, O. Sarnelle, and **A. E. Wilson**. 2012. Consequences of nutrient enrichment and herbivore adaptation for phytoplankton in lakes. 21<sup>st</sup> SE NALMS Southeastern Lake and Watershed Management Conference. Columbus, Georgia. **(1<sup>st</sup> place oral presentation)**
- Wilson, A. E.\***, R. B. Kaul#, M. F. Chislock#, and G. L. Curvin. 2012. Towards an improved understanding of the factors mediating toxic cyanobacterial blooms throughout the Southeast. Association of Southeastern Biologists, Athens, Georgia.
- Wilson, A. E.\***, R. A. Wright, K. K. Schrader, G. L. Curvin, B. H. Rosen, and J. L. Graham. 2012. Creating cost-effective regional algal bloom monitoring networks. 8<sup>th</sup> National Monitoring Conference. Portland, Oregon, 2012.
- Logan, S. W.\*, L. Robinson, **A. E. Wilson**, and W. Lucas. 2012. Effectiveness of motor skill interventions in children: a meta-analysis. Auburn University Research Week. Auburn University, Auburn, Alabama. **(2<sup>nd</sup> place oral presentation)**
- Chislock, M. F.\*#, V. R. Anderson#, O. Sarnelle, and **A. E. Wilson**. 2012. Consequences of nutrient enrichment and herbivore adaptation for phytoplankton in lakes. Auburn University Graduate Student Council Forum. Auburn University, Auburn, Alabama. **(Outstanding oral presentation award)**
- Anderson, V. R.\*#, M. F. Chislock#, O. Sarnelle, and **A. E. Wilson**. 2012. Population dynamics of *Daphnia* across a productivity gradient. Auburn University Research Week. Auburn University, Auburn, Alabama.
- Logan, S. W.\*, L. Robinson, **A. E. Wilson**, and W. Lucas. 2012. Effectiveness of motor skill interventions in children: a meta-analysis. Auburn University Graduate Student Council Forum. Auburn University, Auburn, Alabama.
- Chislock, M. F.\*#, V. R. Anderson\*, O. Sarnelle, and **A. E. Wilson**. 2012. Consequences of nutrient enrichment and herbivore adaptation for phytoplankton in lakes. Southeastern Ecology and Evolution Conference. Clemson University, Clemson, South Carolina.
- Anderson, V. R.\*#, M. F. Chislock#, O. Sarnelle, and **A. E. Wilson**. 2012. Population dynamics of *Daphnia* across a productivity gradient. Southeastern Ecology and Evolution Conference. Clemson University, Clemson, South Carolina. (poster)
- Logan, S. W.\*, L. E. Robinson, **A. E. Wilson**, and W. A. Lucas. 2012. Effectiveness of motor skill interventions in young children: a meta-analysis. American Alliance for Health, Physical Education, Recreation and Dance. Boston, Massachusetts.

- Anderson, V. R.\*#, M. F. Chislock#, and **A. E. Wilson**. 2011. The effects of *Daphnia pulicaria* across a productivity gradient. NIMBioS Undergraduate Research Conference. Knoxville, Tennessee. (poster)
- Kozłowski-Suzuki, B., **A. E. Wilson**, and A. S. Ferrão-Filho\*. 2011. Biomagnification or biodilution of microcystins in aquatic food webs: meta-analyses of laboratory and field studies. XIII Brazilian Meeting of Limnology. Natal, Brazil.
- Chislock, M. F.\*#, O. Sarnelle, and **A. E. Wilson**. 2011. Are cyanobacteria-tolerant *Daphnia pulicaria* genotypes functionally redundant? Ecological Society of America. Austin, Texas.
- Roberts, J.\*, M. Irsik, R. Heskett, H. Swain, G. Lollis, D. Schlafer, D. Scruggs, M. Mansour, D. Givens, M. Davolt, D. L. Kitchen, H. Stockdale, C. Buergelt, and **A. E. Wilson**. 2011. Ovarian follicular dysplasia (OFD) in three Florida beef cattle herds. Food Animal Veterinary Medical Conference, Florida Veterinary Medical Association. Kissimmee, Florida.
- Chislock, M. F.\*#, R. B. Kaul#, L. M. Jernigan#, O. Sarnelle, and **A. E. Wilson**. 2011. Is grazer tolerance to toxic cyanobacteria a general phenomenon? Southeastern Ecology and Evolution Conference. Auburn University, Auburn, Alabama.
- Kaul, R. B.\*#, M. F. Chislock#, K. M. Adamson#, G. L. Curvin, and **A. E. Wilson**. 2011. Forecasting cyanobacterial abundance throughout the Southeastern U.S. Southeastern Ecology and Evolution Conference. Auburn University, Auburn, Alabama.
- Chislock, M. F.\*#, R. B. Kaul#, L. M. Jernigan#, O. Sarnelle, and **A. E. Wilson**. 2011. Is grazer tolerance to toxic cyanobacteria a general phenomenon? Auburn University Graduate Student Forum. Auburn University, Auburn, Alabama.
- Wilson, A. E.\***, P. J. Bradley#, K. E. Peck#, and M. F. Chislock#. 2011. The diazotroph, *Cylindrospermopsis raciborskii*, dominates under very low and very high nitrogen-to-phosphorus ratios: implications for its control. American Society of Limnology and Oceanography. San Juan, Puerto Rico.
- Chislock, M. F.\*#, R. B. Kaul#, L. M. Jernigan#, O. Sarnelle, and **A. E. Wilson**. 2011. Is grazer tolerance to toxic cyanobacteria a general phenomenon? American Society of Limnology and Oceanography. San Juan, Puerto Rico.
- Sarnelle, O.\* and **A. E. Wilson**. 2011. Intraspecific variation: role in the ecology of harmful phytoplankton. American Society of Limnology and Oceanography. San Juan, Puerto Rico.
- Wilson, A. E.\***, R. B. Kaul#, M. F. Chislock#, K. M. Adamson#, and G. L. Curvin. 2010. Forecasting toxic cyanobacterial bloom throughout Alabama. Alabama Water Resources Conference, Orange Beach, Alabama.
- Kaul, R. B.\*#, M. F. Chislock#, K. M. Adamson#, and **A. E. Wilson**. 2010. First steps towards forecasting cyanobacterial abundance throughout the Southeastern U.S. University of North Carolina at Chapel Hill Institute for the Environment Water and Health Symposium. Chapel Hill, North Carolina. (poster)
- Wilson, A. E.\***, M. F. Chislock#, R. B. Kaul#, K. M. Adamson#, and O. Sarnelle. 2010. Ecological control of toxic cyanobacterial blooms. University of North Carolina at Chapel Hill Institute for the Environment Water and Health symposium. Chapel Hill, North Carolina.
- Wilson, A. E.\*** and K. M. Adamson#. 2010. Allometry has strong effects on colony growth rate in a bloom-forming phytoplankter under disparate environments. Ecological Society of America. Pittsburgh, Pennsylvania.
- Chislock, M. F.\*#, R. B. Kaul#, K. M. Adamson#, and **A. E. Wilson**. 2010. Subtle effects of *Daphnia pulicaria* on toxic cyanobacterial abundance under contrasting nitrogen-to-phosphorus ratios. Ecological Society of America. Pittsburgh, Pennsylvania.
- Chislock, M. F.\*#, K. M. Adamson#, J. A. Stoeckel, and **A. E. Wilson**. 2009. Plankton community dynamics near the Saugahatchee Creek embayment. Tallapoosa Watershed Project mini-conference, Auburn, Alabama.
- Chislock, M.F.\*#, K. M. Adamson#, and **A. E. Wilson**. 2009. Interactions among variable phosphorus loading, sediment pulses, and herbivorous zooplankton: implications for algal blooms in a reservoir system. Mid-South Aquatic Plant Management Society conference. Guntersville, Alabama.
- Kaul, R. B.\*#, M. F. Chislock#, K. M. Adamson#, G. LoGiudice, and **A. E. Wilson**. 2009. A limnological survey of Alabama's freshwater systems for cyanobacterial toxins. Alabama Water Resources Conference. Orange Beach, Alabama. (poster)
- Kaul, R. B.\*#, M. F. Chislock#, K. M. Adamson#, G. LoGiudice, and **A. E. Wilson**. 2009. A limnological survey of Alabama's freshwater systems for cyanobacterial toxins. Southeastern Ecology and Evolution Conference. University of Florida, Gainesville, Florida.
- Chislock, M.\*# and **A. E. Wilson**. 2009. Interactions between variable phosphorus pulses and herbivorous



- zooplankton: implications for control of algal blooms in a reservoir system. State of Our Watershed annual meeting. Alexander City, Alabama. (poster)
- Sarnelle, O.\* and **A. E. Wilson**. 2008. Do high levels of phytoplankton toxins prevent strong grazer control? Ecological Society of America. Milwaukee, Wisconsin.
- Wilson, A. E.**, E. Sedgman#, D. Gossiaux, P. Landrum, S. Pothoven, J. Dyble, and S. Robinson\*. 2007. Preliminary assessment of microcystin accumulation in Yellow Perch during the 2006 cyanobacterial bloom season in western Lake Erie. International Association of Great Lakes Research. University Park, Pennsylvania.
- Vanderploeg, H. A.\*, J. Dyble, **A. E. Wilson**, J. R. Liebig, S. Robinson, and N. R. Morehead. 2007. New approaches and new results provide evidence for promotion of toxic *Microcystis aeruginosa* blooms by dreissenid mussel selective rejection. International Association of Great Lakes Research. University Park, Pennsylvania.
- Wilson, A. E.\***, O. Sarnelle, and A. R. Tillmanns. 2007. Species-specific responses of freshwater zooplankton to cyanobacteria: Meta-analysis of laboratory experiments. American Society of Limnology and Oceanography. Santa Fe, New Mexico.
- Sarnelle, O.\* and **A. E. Wilson**. 2007. Does *Daphnia* have a Type III functional response? American Society of Limnology and Oceanography. Santa Fe, New Mexico.
- Knoll, L. B., O. Sarnelle\*, S. K. Hamilton, C. E. H. Scheele, **A. E. Wilson**, J. B. Rose, and M. Morgan. 2006. Invasive zebra mussels (*Dreissena polymorpha*) increase cyanobacterial toxin concentration in low-nutrient lakes. Ecological Society of America. Memphis, Tennessee.
- Wilson, A. E.\*** and M. E. Hay. 2006. Microcystin-LR is and is not toxic to *Daphnia*: A direct test of the toxin effect. American Society of Limnology and Oceanography. Victoria, British Columbia.
- Vanderploeg, H. A.\*, M. Dionisio-Pires, **A. E. Wilson**, O. Sarnelle, J. R. Liebig, S. Robinson, and N. R. Morehead. 2006. Dreissenid mussels and toxic *Microcystis* blooms: theory and progress. American Society of Limnology and Oceanography. Victoria, British Columbia.
- Sarnelle, O. and **A. E. Wilson\***. 2005. Local adaptation of *Daphnia pulicaria* to toxic *Microcystis aeruginosa*. International Symposium on Cyanobacterial Harmful Algal Blooms. Research Triangle Park, North Carolina. (poster)
- Wilson, A. E.\***, A. Tillmanns, and O. Sarnelle. 2005. Relative roles of alternative mechanisms mediating effects of cyanobacteria on zooplankton population growth: Meta-analysis of laboratory experiments. American Society of Limnology and Oceanography. Santiago de Compostela, Spain.
- Sarnelle, O.\* and **A. E. Wilson**. 2005. Local adaptation of *Daphnia pulicaria* to toxic *Microcystis aeruginosa*. American Society of Limnology and Oceanography. Santiago de Compostela, Spain.
- Sarnelle, O.\*, L. B. Knoll, S. K. Hamilton, C. E. H. Scheele, **A. E. Wilson**, J. B. Rose, and M. R. Woodall. 2005. Invasion by the exotic mussel (*Dreissena polymorpha*) causes an increase in cyanobacterial toxin in lakes with low to moderate nutrients. International Association of Great Lakes Research. Ann Arbor, Michigan.
- Wilson, A. E.\***, A. R. Tillmanns, and O. Sarnelle. 2005. Are putative cyanobacterial toxins really toxic to cladocerans and rotifers? Southeastern Ecology and Evolution Conference. Athens, Georgia.
- Wilson, A. E.\***, O. Sarnelle, B. A. Neilan, and M. E. Hay. 2004. Extensive genetic variation of the noxious cyanobacterium, *Microcystis aeruginosa*, within and across lakes: Implications for harmful algal blooms. Environmental Protection Agency S.T.A.R. Fellowship Conference. Washington, D.C. (poster)
- 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 zebra mussels. International Conference on Aquatic Invasive Species. Ennis, Ireland.
- Wilson, A. E.\***, L. B. Knoll, J. P. Montoya, O. Sarnelle, S. K. Hamilton, and M. E. Hay. 2003. Trophic position of lake fishes altered by the invasive bivalve, *Dreissena polymorpha*: A stable isotope study. Ecological Society of America. Savannah, Georgia. (poster)
- Sarnelle, O.\*, **A. E. Wilson**, S. K. Hamilton, L. B. Knoll, and D. F. Raikow. 2003. Complex effects of zebra mussels (*Dreissena polymorpha*) on the bloom-forming bluegreen, *Microcystis aeruginosa*. International Association of Great Lakes Research. Chicago, Illinois.
- Raikow, D. F.\*, O. Sarnelle, **A. E. Wilson**, and S. K. Hamilton. 2002. Zebra mussel impacts on phytoplankton across a productivity gradient in Michigan lakes. Ecological Society of America. Tucson, Arizona.
- Wilson, A. E.\***, O. Sarnelle, D. F. Raikow, and S. K. Hamilton. 2001. Mussels and *Microcystis*: Do zebra mussels promote blue-green algal blooms in oligotrophic lakes? Ecological Society of America. Madison, Wisconsin.
- Wilson, A. E.\***. 2000. *In situ* examination of the effect of zebra mussels on phytoplankton species composition

and abundance: A mesocosm study. American Society of Limnology and Oceanography. Copenhagen, Denmark. (poster)

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**ADDITIONAL TRAINING**

- 2018 Auburn University Writing Center - ePortfolio assessment workshop - Auburn, Alabama.  
2017 Association for the Sciences of Limnology and Oceanography - Leadership training workshop - Honolulu, Hawaii.  
2011 National Science Foundation Research Ambassador Fellow – The Evergreen State College  
Learned effective outreach techniques for sharing science with audiences at prisons, places of worship, and senior centers (competitive selection process)  
2007 Science Environment for Ecological Knowledge - University of New Mexico  
Learned ecoinformatics and relevant information technologies (competitive selection process)
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**PROFESSIONAL AFFILIATIONS**

Association for the Sciences of Limnology and Oceanography	member since 1998
Ecological Society of America	member since 1998
North American Lake Management Society	member since 2018