

ALAN E. WILSON

Auburn University
School of Fisheries, Aquaculture, and Aquatic Sciences
203 Swingle Hall
Auburn, Alabama 36849
334-246-1120, wilson@auburn.edu
<https://www.wilsonlab.com/>

EDUCATION

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

PROFESSIONAL EXPERIENCES

United States Department of Agriculture - National Institute of Food and Agriculture
2022 - present Panel Manager for Small Business Innovation Research Topic Area 8.7 Aquaculture
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 - Department of Fisheries and Allied Aquacultures
2007 - 2013 Assistant Professor
University of Michigan at Ann Arbor - Cooperative Institute for Limnology and Ecosystems Research (CILER)
2006 - 2007 Postdoctoral research investigator

GRANTS, CONTRACTS, AND AWARDS (Total \$12,027,502; External \$10,792,437; Awarded but Declined \$40,500; Wilson’s role in each project is listed as well as PI if led by a colleague)

CURRENT SUPPORT

2023 - 2028 USDA ARS - \$578,871 (Hoang, PI; Wilson, co-PI; Kelly, co-PI; Roy, co-PI)
2023 - 2024 Northwest Florida Water Management District - \$80,355 (Wilson, PI)
2022 - 2024 Auburn University - AAES SEED - \$50,000 (Wang, PI; Wilson, co-PI; Stoeckel, co-PI)

2020 - 2025 USDA ARS - \$2,088,566 (Wilson, PI)
 2020 - 2024 USDA NIFA - Energy and Environment program - \$434,658 (Higgins, PI; Wilson, co-PI; Prasad, co-PI)
 2018 - 2024 NSF - Dimensions of Biodiversity - \$1,999,994 (Hambright, lead institution PI; Wilson, PI of Auburn portion \$379,121)
 2017 - 2024 NSF - Research Experiences for Undergraduates program - \$358,834 (Wilson, PI)

PAST SUPPORT

2021 - 2023 Auburn University - AAES AIR - \$149,546 (Rogers, PI; Wilson, co-PI; and others)
 2021 - 2022 USGS - Alabama Water Resources Institute - \$25,000 (Wang, PI; Wilson, co-PI)
 2016 - 2022 NSF - S-STEM program - \$2,099,650 (Jenda, PI; Wilson, co-PI; and others)
 2022 Auburn University - Teaching infrastructure grant - \$715 (Wang, 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; and others)
 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

HONORS

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|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2022 | Auburn University Gerald and Emily Leischuck Endowed Presidential Award for Excellence in Teaching (<i>this award is the highest honor at Auburn University related to student instruction</i>) |
| 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) |

STUDENT HONORS AND AWARDS (Total \$432,728)

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|-------------|-----------------------|-------------------------------------------------------------------------------------------------------|-----------|
| 2023 | Saranya Anantapantula | World Aquaculture Society meeting - Best student oral presentation | \$1,000 |
| 2023 | Matt Gladfelter | Auburn University AFS Subunit Scholarship | \$800 |
| 2023 | Steffi Drescher | DAAD RISE fellowship (German exchange program) | \$5,500 |
| 2023 | Rebecca Chen | Connecticut-STEM Science Fair - 2 nd place | |
| 2022 | Matt Gladfelter | 11 th US HABs Travel Award | \$650 |
| 2022 | Matt Gladfelter | 11 th US HABs Best Student Talk Honorable Mention | |
| 2021 - 2024 | Matt Gladfelter | AU Presidential Graduate Research Fellow | \$45,000 |
| 2021 - 2022 | Susanne Wittenzeller | DAAD RISE fellowship (German exchange program) | \$5,500 |
| 2021 - 2022 | Tiffany Ramsey | AU Undergraduate Research Fellow award | \$4,400 |
| 2022 | Paula Schröder | DAAD RISE fellowship (German exchange program) | \$5,500 |
| 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 st place MS poster presentation | \$250 |
| 2020 | Riley Buley | College of Agriculture Graduate Student Poster Showcase 1 st 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 th US HAB Symposium student travel award | \$700 |

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| 2019 | Riley Buley | 10 th US HAB Symposium student travel award | \$350 |
| 2019 | Catie Adams | 10 th 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 nd prize | \$300 |
| 2017 | Edna Fernandez | 9 th US HABs Symposium - best poster | \$250 |
| 2017 | Edna Fernandez | College of Agriculture Graduate Student Poster Showcase 2 nd 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 rd place Science oral presentation | not applicable |
| 2017 | Edna Fernandez | SEC Campus Water Matters Group Competition | 2 nd 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 rd 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 |

PEER-REVIEWED PUBLICATIONS (# STUDENT AUTHOR)

101. Baylous, H. R.#, M. F. Gladfelter#, M. I. Gardner#, M. Foley#, **A. E. Wilson**, and M. M. Steffen. *In press*. Indole-3-acetic acid promotes growth in bloom-forming *Microcystis* via an antioxidant response. *Harmful Algae*.
100. Zinnert, H. M.#, M. F. Gladfelter#, S. E. Tenison#, H. P. Poe#, K. L. Merrill#, A. V. Hennessey#, M. B. McDonald#, D. Wang, H. A. Torbert, and **A. E. Wilson**. 2024. Impacts of flue gas desulfurization (FGD) gypsum on water quality and the algal community in catfish aquaculture ponds. *Aquaculture* 581:740406.
99. Zinnert, H. M.#, M. F. Gladfelter#, H. P. Poe#, K. L. Merrill#, A. V. Hennessey#, M. B. McDonald#, D. Wang, H. A. Torbert, and **A. E. Wilson**. 2023. Positive and negative impacts of flue gas desulfurization (FGD) gypsum on water quality. *Journal of Environmental Management* 348:119307.
98. Gross, I. P.#, **A. E. Wilson**, and M. E. Wolak. *In press*. The fitness consequences of wildlife conservation

translocations: a meta-analysis. *Biological Reviews*.

97. Hamid, A.#, **A. E. Wilson**, M. F. Gladfelter#, T. J. Knappenberger, and D. Wang. 2023. Long-term missing role of colloids and nanoparticles on the loading and speciation of phosphorus in catfish aquaculture ponds in west Alabama. *Chemosphere* 340:139906.
96. Anantapantula, S. S.# and **A. E. Wilson**. 2023. Most treatments to control freshwater algal blooms are not effective: meta-analysis of field experiments. *Water Research* 243:120342.
95. Murphy, K. M.#, S. M. Le#, **A. E. Wilson**, and D. A. Warner. 2023. The microbiome as a maternal effect: a systematic review on vertical transmission of microbiota. *Integrative and Comparative Biology* 63(3):597-609.
94. Buley, R. P.#, M. F. Gladfelter#, E. G. Fernandez-Figueroa#, and **A. E. Wilson**. 2023. Complex effects of dissolved organic matter, temperature, and initial bloom density on the efficacy of hydrogen peroxide to control cyanobacteria. *Environmental Science and Pollution Research* 30:43991-44005.
93. Hamid, A.#, **A. E. Wilson**, H. A. Torbert, and D. Wang. 2023. Sorptive removal of phosphorus by flue gas desulfurization gypsum in batch and column systems. *Chemosphere* 320:138062.
92. Li, S., F. Wei, X. Dong, M. Pan, L. Li, X. Tian, Q. Gao, and **A. E. Wilson**. 2023. Shift of phytoplankton and microbial communities cause seasonal dynamics of odor compounds in *Oncorhynchus mykiss* cultured in a freshwater reservoir. *Aquaculture* 570:739422.
91. Wang, J.#, **A. E. Wilson**, B. Su, and R. A. Dunham. 2023. Functionality of dietary antimicrobial peptides in aquatic animal health: Multiple meta-analyses. *Animal Nutrition* 12:200-214.
90. Havird, J., P. B. Brannock, R. M. Yoshioka, R. C. Vaught, K. Carlson, C. Edwards, A. Tracy, C. W. Twining, Y. Zheng, D. Chai, **A. E. Wilson**, Nelson G. Hairston, and S. R. Santos. 2022. Grazing by an endemic atyid shrimp controls microbial communities in the Hawaiian anchialine ecosystem. *Limnology and Oceanography* 67(9):2012-2027.
89. Anacleto, T. M.#, B. Kozlowsky-Suzuki#, **A. E. Wilson**, and A. Enrich-Prast. 2022. Comprehensive meta-analysis of pathways to increase biogas production in the textile industry. *Energies* 15:5574.
88. Buley, R. P.#, M. F. Gladfelter#, E. G. Fernandez-Figueroa#, and **A. E. Wilson**. 2022. Can correlational analyses help determine the drivers of microcystin occurrence in freshwater ecosystems? A meta-analysis of microcystin and associated water quality parameters. *Environmental Monitoring and Assessment* 194:493.
87. Gladfelter, M. F.#, R. P. Buley#, A. P. Belfiore#, E. G. Fernandez-Figueroa#, B. L. Gerovac#, N. D. Baker#, and **A. E. Wilson**. 2022. Dissolved nitrogen form mediates phycocyanin content in cyanobacteria. *Freshwater Biology* 67(6):954-964.
86. DadeMatthews, O.#, F. K. Neal#, P. J. Agostinelli, S. O. Oladipupo#, R. M. Hirschhorn#, **A. E. Wilson**, and J. M. Sefton. 2022. Systematic review and meta-analyses on the effects of whole-body vibration on bone health. *Complementary Therapies in Medicine* 65:102811.
85. Fernandez-Figueroa, E. G.# and **A. E. Wilson**. 2022. Local adaptation mediates direct and indirect effects of multiple stressors on consumer fitness. *Oecologia* 198(2):483-492.
84. Fernandez-Figueroa, E. G.#, **A. E. Wilson**, and S. R. Rogers. 2022. Commercially available unoccupied aerial systems for monitoring harmful algal blooms: a comparative study. *Limnology and Oceanography: Methods* 20:146-158. **(Top Cited Paper; Top Downloaded Article during first year post publication)**
83. Cabral, D. A. R.#, **A. E. Wilson**, and M. W. Miller. 2022. The effect of implicit learning on motor performance under psychological pressure: A systematic review and meta-analysis. *Sport, Exercise, and Performance Psychology* 11(3): 245–26.
82. Wang, Y.#, **A. E. Wilson**, and N. Liu. 2022. A new method to address the importance of detoxified enzyme in insecticide resistance – meta-analysis. *Frontiers in Physiology* 13:818531.
81. Oladipupo, S. O.#, **A. E. Wilson**, X. P. Hu, and A. G. Appel. 2022. Why do insects close their spiracles? A meta-analytic evaluation of the adaptive hypothesis of discontinuous gas exchange in insects. *Insects* 13(2):117.
80. Green, W. R., A. B. Hoos, **A. E. Wilson**, and E. N. Heal. 2021. Development of a screening tool to examine lake and reservoir susceptibility to eutrophication in selected watersheds of the eastern and southeastern United States. *U.S. Geological Survey Scientific Investigations Report* 2021–5075, 59 pages
79. Belfiore, A.#, R. P. Buley#, E. G. Fernandez-Figueroa#, M. Gladfelter#, and **A. E. Wilson**. 2021. Zooplankton as an alternative method for controlling phytoplankton in catfish pond aquaculture. *Aquaculture Reports* 21:100897.
78. Clark, A.#, B. Howell#, **A. E. Wilson**, and T. Schwartz. 2021. Draft genomes for one *Microcystis*-resistant

- and one *Microcystis*-sensitive strain of the water flea, *Daphnia pulicaria*. *G3* 11(11):jkab266.
77. 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. E. Wilson**, K. R. Zamudio, M. Zhong, and C. J. Ballen. 2021. Meta-analysis of gender performance gaps in undergraduate natural science courses. *CBE-Life Sciences Education* 20(2):ar40.
 76. Buley, R. P.#, H. E. Correia#, A. Abebe, T. B. Issa#, and **A. E. Wilson**. 2021. Predicting microcystin occurrence in freshwater lakes and reservoirs: assessing environmental variables. *Inland Waters* 11(3):430-444.
 75. 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.
 74. Valle-Pombrol, A., A. Comas-Gonzalez, D. Castro-Rodriguez, A. Garcia-Moya, and **A. E. Wilson**. 2021. Planktonic cyanobacteria from the Abreus Reservoir, Cienfuegos, Cuba. *Pan-American Journal of Aquatic Sciences* 16(1):20-29.
 73. 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**. 2021. Carlson's trophic state index is a poor predictor of cyanobacterial dominance in drinking water reservoirs. *AWWA Water Science* 3(2):e1219.
 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. Howerth, 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. **(Clarivate Analytics Web of Science Highly Cited Paper)**
 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://royalsocietypublishing.org/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.
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 13. Munsterman, A. S.#, J. J. Kottwitz#, and R. R. Hanson. 2016. Meta-analysis of the effects of adhesion barriers on adhesion formation in the horse. *Veterinary Surgery* 45:587-595.
 12. 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.
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 10. 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.

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.
8. 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.
7. Willoughby, J. R.#, M. Sundaram, B. K. Wijayawardena#, S. J. A. Kimble, Y. Ji, N. B. Fernandez, J. D. Antonides, M. C. Lamb, N. J. Marra, and J. A. DeWoody. 2015. The reduction of genetic diversity in threatened vertebrates and new recommendations regarding IUCN conservation rankings. *Biological Conservation* 191:495-503.
6. 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.
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.
3. Havird, J. C.#, R. P. Henry, and **A. E. Wilson**. 2013. Altered expression of Na⁺/K⁺-ATPase and other osmoregulatory genes in the gills of euryhaline animals in response to salinity transfer: A meta-analysis of 59 quantitative PCR studies over 10 years. *Comparative Biochemistry and Physiology, Part D* 8(2):131-140.
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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. (**Clarivate Analytics Web of Science Highly Cited Paper**)

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

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32. Krebsbach, S., J. He, S. Adhikari, Y. Olshansky, F. Feyzbar, L. C. Davis#, T.-S. Oh, and D. Wang. 2023. Mechanistic understanding of perfluorooctane sulfonate (PFOS) sorption by biochars. *Chemosphere* 330:138661.
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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.
27. Wang, Q., M. Hyman#, and B. T. Higgins. 2021. Factors impacting the effectiveness of biological pretreatment for the alleviation of algal growth inhibition on anaerobic digestate. *Algal Research* 53:102129.
26. Wright, A. D.#, N. L. Garrison, A. S. Williams, P. D. Johnson, and N. V. Whelan. 2020. Range reduction of Oblong Rocksnail, *Leptoxis compacta*, shapes riverscape genetic patterns. *PeerJ* 8:e9789.
25. DeSana, A.#, A. Fargevieille, and D. A. Warner. 2020. Survival of lizard eggs varies with microhabitat in the presence of an invertebrate nest predator. *Evolutionary Ecology* 34:483-499.
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23. Garner, B.#, C. Adams#, R. P. Buley#, and **A. E. Wilson**. Aquaculture 2019: Auburn students' perspective. World Aquaculture 50(2):19.
22. 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.
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.
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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

EDITORIAL, PROGRAM MANAGEMENT, AND REVIEWING ACTIVITIES

FUNDING AGENCIES

Program management

USDA National Institute of Food and Agriculture

Panel Manager for Small Business Innovation Research Topic Area 8.7 Aquaculture - 2022 to present

Manage two panels each year (Phase I and II) including recruiting panelists, assigning reviewers, organizing proposal discussion schedule, and managing panel

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 (21 panels across 3 total agencies totaling 291 proposals)

National Science Foundation (13 panels: Population and Community Ecology cluster (2x), Long-Term

Ecological Research (LTER) Site Visit, Research Experiences for Undergraduates (4x), Basic Research to

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

program (4x), EPSCoR Research Infrastructure Improvement (RII) Track-2), New York Sea Grant (1 panel)

USDA National Institute of Food and Agriculture (5 panels: Aquaculture program (3x), Hispanic-serving

Institutions Education Grants program, Small Business Innovation Research)

Ad-hoc proposal reviews (49 ad-hoc reviews across 21 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, Southern Regional

Aquaculture Center

EDITORIAL DUTIES

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

Harmful Algae - Editorial Board - 2017 to 2021

JOURNALS (204 manuscript reviews for 78 total journals)

Acta Oecologica, African Journal of Aquatic Science, Algal Research, American Naturalist, Antonie van

Leeuwenhoek, 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, Chemosphere, Cogent Public Health, 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, Environmental Technology, 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 Oceanology and Limnology, 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, Reviews in Aquaculture, Science of the Total Environment, Studies in Higher Education, Toxicon, 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 to 2022
 US EPA Cyanobacteria Indicator review - 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

INVITED RESEARCH PRESENTATIONS

2023 USFWS Division of Scientific Resources (DSR) Monthly Refuge Biology Meeting. Remote from Auburn, Alabama.
 2023 International Water Association (IWA) USA National Committee (USANC) Meeting. Remote from Auburn, Alabama.
 2023 Alabama Extension Natural Resources Webinar Series, Auburn University. Remote from Auburn, Alabama.
 2022 International Centre for Interdisciplinary Science and Education, Quy Nhon, Vietnam
 2022 College of Agriculture Federal Agenda Project Leaders meeting, Auburn University. Auburn, Alabama.
 2022 Senate Appropriations Subcommittee on Agriculture Staff meeting, Auburn University. Auburn, Alabama.
 2022 Annual Arkansas Water Resources Conference, University of Arkansas. Fayetteville, Arkansas.
 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.
 2021 Jule Collins Smith Museum Board Meeting. 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 37th 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)

2023 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

2022 Auburn University, College of Veterinary Medicine, Auburn, Alabama
 Lecture topic: Effective mentoring strategies for junior faculty

2022 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

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

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|-----------------|---------------------|-------------------|--------------------------|
| Rajdeep Dutta | Visiting researcher | Assam Ag Univ | Spring 2022 to Fall 2022 |
| 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) |
| Ashley Hennessey | Masters | Fisheries | Fall 2022 to present |
| Jenifer Howell | Masters | Fisheries | Fall 2022 to present |
| Jo-Marie Kasinak | Masters | Biological Sciences | Spring 2012 to Fall 2013 (completed) |
| RajReni Kaul | Masters | Fisheries | Summer 2008 to Summer 2011 (completed) |
| Gabriela Lopez | Doctoral | Fisheries | Spring 2023 to present |
| Michael McDonald | Masters | Fisheries | Fall 2022 to present |
| Kate Merrill | Masters | Fisheries | Fall 2022 to present |
| Brie Olsen | Masters | Fisheries | Fall 2012 to Spring 2015 (completed) |
| Peyton Poe | Masters | Fisheries | Fall 2023 to present |
| Suzanne Tenison | Masters (non-thesis) | Fisheries | Fall 2021 to Fall 2023 (completed) |
| Hannah Zinnert | Masters | Fisheries | Fall 2021 to Summer 2023 (completed) |

COMMITTEE MEMBER FOR

| | | | |
|-----------------|----------|---------------------------------|----------------------------------------|
| Gwendolyn Bird | Doctoral | Biology | Summer 2019 to Fall 2021 (completed) |
| Fangning Cao | Doctoral | Forestry and Wildlife Sciences | Spring 2020 (completed) |
| Spencer Cruz | Masters | Biology (Columbus State Univ.) | Summer 2018 to Fall 2019 (completed) |
| Alireza Fallahi | Doctoral | Biosystems Eng | Fall 2023 to present |
| Justin Havird | Doctoral | Biological Sciences | Spring 2011 to Spring 2014 (completed) |
| Kyle Heine | Doctoral | Biological Sciences | Fall 2018 to Fall 2021 (completed) |
| Katherine Cook | Doctoral | Biology (Oklahoma) | Spring 2016 to Fall 2022 (completed) |
| 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) |

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|-------------------|----------|------------------------------------------|----------------------------------------|
| Riley Lovejoy | Doctoral | Biological Sciences (Univ of Alabama) | Fall 2017 to Spring 2023 (completed) |
| 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) |
|--------------|----------|-----------------------------------------|----------------------------------------|

UNDERGRADUATE STUDENT ADVISEMENT

NSF RESEARCH EXPERIENCES FOR UNDERGRADUATES (REU) AT AUBURN UNIVERSITY

| | | | |
|-------------------|--------------------------|-------------------------|-------------|
| Carol McCann | Indiana University | Engineering major | Summer 2023 |
| Jake Heisler | Southern Union C.C. | Biology major | Summer 2022 |
| Isabel Bela | Auburn University | Biosystems Eng. major | Summer 2022 |
| Olivia Montoya | Front Range C.C. | Geosciences major | Summer 2022 |
| 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 |
|---------------|----------------------|-----------------|-------------|

AUBURN UNIVERSITY

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|---------------------|------------------|-------------------------|----------------------------|
| Ainsley Sullivan | Auburn Univ | Biomedical Sciences | Fall 2023 to present |
| Parker Coopwood | Auburn Univ | Natural Resources major | Summer 2023 to present |
| Pierce Meinert | Auburn Univ | Microbiology major | Summer 2023 to present |
| Mattie Brennan | Auburn Univ | Biosystems Eng. major | Summer 2023 to present |
| Lauren Tucker | Auburn Univ | Marine Biology major | Spring 2021 to present |
| Anna Claire Mollica | Auburn Univ | Marine Biology major | Spring 2021 to Fall 2023 |
| Emily Hale | Auburn Univ | Biomedical Sciences | Fall 2023 |
| Steffi Drescher | German DAAD RISE | Hydrosciences major | Fall 2023 |
| Yancey Kerr | Auburn Univ | Wildlife Mgt. major | Spring 2023 to Summer 2023 |
| Rachel Jones | Auburn Univ | Natural Resources major | Summer 2022 to Spring 2023 |

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|----------------------|------------------|---------------------------|----------------------------|
| Evan Browne | Auburn Univ | Marine Biology major | Fall 2021 to Spring 2023 |
| Isabel Bela | Auburn Univ | Biosystems Eng. major | Fall 2019 to Spring 2023 |
| Ahmad Dougherty | Auburn Univ | Biosystems Eng. major | Summer 2022 to Spring 2023 |
| Katherine Bandholz | Auburn Univ | Biosystems Eng. major | Fall 2022 to Spring 2023 |
| JT Mumber | Auburn Univ | Crop, Soil, Env Sci major | Fall 2022 |
| Lydia Bruns | Auburn Univ | Pre-vet major | Fall 2021 to Summer 2022 |
| Annaleigh Poland | Auburn Univ | Fisheries major | Summer 2022 |
| Caroline Parrish | Auburn Univ | Genetics major | Fall 2021 to Spring 2022 |
| Paula Schröder | German DAAD RISE | Environmental Eng major | Summer 2022 |
| Brandon White | Auburn Univ | Biomedical Science major | Fall 2021 to Spring 2022 |
| Susanne Wittenzeller | German DAAD RISE | Environmental Eng major | Fall 2021 to Spring 2022 |
| Jessica Chan | Auburn Univ | Biochemistry major | Summer 2021 to Spring 2022 |
| Jake Delaney | Auburn Univ | Animal Science major | Summer 2021 to Fall 2021 |
| Tiffany Ramsey | Auburn Univ | Pre-medicine major | Fall 2020 to Fall 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 |

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|------------------|---------------|---------------------|----------------------------|
| 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 |
|--------------|-----------------------|-------------------|-------------|

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 |

HIGH SCHOOL STUDENT ADVISEMENT

REMOTE STUDENT

| | | |
|-----------------------|--------------|--------------------------|
| Saranya Anantapantula | Pennsylvania | Fall 2020 to present |
| Rebecca Chen | Connecticut | Fall 2021 to Spring 2023 |

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 |

TEACHING EXPERIENCES

COURSES

| | |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2008 - 2014, '17-'24 | <u>Limnology</u> - Auburn University - Fisheries, Aquaculture, and Aquatic Sciences Updated required core course and lab for all departmental undergraduates |
| 2010, '12, '14, '16, '18-'24 | <u>Meta-analysis</u> - 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 58 peer-reviewed journal articles led by students with at least 5 other manuscripts currently in review. |
| 2019 | <u>The Hutchinson Scientific Legacy</u> - 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 | <u>Water in our World</u> - 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
Developed and taught several laboratory and field learning exercises
- 1999 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

LEADERSHIP ROLES

- 2022 - present USDA NIFA - panel manager – SBIR Aquaculture program
- 2022 - present Co-facilitator with Dr. Carey Andrzejewski and the leaders of the Professionalism and Integrity in Research program (<https://integrityprogram.org/>) where we led all-day workshops for faculty, staff, and graduate students about ethics in science, mentoring, and authorship.
- 2022 - present Mentoring committee for Assistant Professor in the Department of Poultry Science
- 2022 - present Mentoring committee for Assistant Professor in the Department of Biosystems Engineering
- 2021 - present Mentoring committee chair for Assistant Professor in the School of Fisheries, Aquaculture, and Aquatic Sciences
- 2020 - present Assistant Director for Instruction/Extension/Outreach - School of Fisheries, Aquaculture, and Aquatic Sciences – Auburn University
- 2020 - present AU College of Agriculture – Curriculum Committee - Auburn University
- 2019 - present Graduate Program Officer - School of Fisheries, Aquaculture, and Aquatic Sciences - Auburn University
- 2017 - present AU Graduation committee - co-chair - Auburn University
- 2008 - present AU Group in Ecology - committee co-chair - Auburn University
- 2022 - 2023 Misconduct committee (several cases) - member - Office of Research Compliance - Auburn

University

2022 - 2023 Co-organizer of Case Studies in Mentoring workshop with Dr. Carey Andrzejewski; five meetings each semester from Summer 2022 to Fall 2023 with faculty, postdocs, and graduate students

2018 - 2023 Coosa Riverkeeper Advisory Board member

2023 College of Agriculture Graduate Student Poster Showcase judge - Auburn University

2021 - 2023 Presidential Task Force for Equity and Opportunity, Subcommittee on Graduate Students - member - Auburn University

2021 - 2023 Office of Inclusion and Diversity committee - member - Auburn University

2021 - 2023 College of Agriculture Diversity committee - member - Auburn University

2021 - 2023 College of Agriculture Faculty Diversity Leader - Auburn University

2023 SETAC meeting session co-organizer with Drs. Jim Lazorchak, Dawn Perkins, Donna Hill, and Avery Tatters, session title “One Health of Planktonic, Pelagic, and Benthic Harmful algal blooms (HABs): The detection, fate, effects, monitoring, and management of blooms”

2023 Faculty representative for SACSCOC on-site review

2017 & 2019-21, 23 AU This is Research oral presentations judge for undergraduate and graduate students - Auburn University

2022 - 2023 LEAD21 (Leadership for the 21st Century) participant - one of two Auburn University faculty selected to participate in this leadership training program

2022 - 2023 Director and Professor of Practice for Equity and Inclusive Excellence search committee - co-chair - Colleges of Agriculture and Forestry, Wildlife, and Environment - Auburn University

2018 - 2023 NSF Biological Sciences Research Experiences for Undergraduates Leadership Council

2022 Jule Collins Smith Museum Reaccreditation Meeting - Auburn University

2022 SETAC meeting session co-organizer with Drs. Jim Lazorchak, Dawn Perkins, Kaytee Pokrzywinski, Arthur Zastepa, Avery Tatters, Jayme Smith, and Bryan Brooks; session title “Pelagic and Benthic Harmful algal blooms (HABs): The detection, fate, effects, monitoring, and management of blooms”

2022 11th US Symposium on Harmful Algae Steering Committee; <https://neiwpcc.org/events/ushab11/>

2022 World Aquaculture Society meeting session co-organizer with Dr. Steve Morton; session title “Harmful algal blooms”

2019 - 2021 AU College of Agriculture - Graduate student recruitment committee - Auburn University

2018 - 2021 AU University Writing committee - College of Agriculture representative - Auburn University

2021 Director for Undergraduate Research search committee - member - Auburn University

2021 10.5th US Symposium on Harmful Algae Scientific Advisory Committee; <https://www.ushabs.com/index2021.html>

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”

2018 - 2021 Elected to serve on the National Harmful Algal Bloom Committee (3-year term)

2020 - 2021 Auburn University representative for NSF INCLUDES project led by Dr. Neil Lamb

2019 - 2021 AU College of Agriculture - Research advisory committee - Auburn University

2017 - 2021 Mentoring committee for Assistant Professor in the Department of Biosystems Engineering

2017 - 2020 AU College of Agriculture and AAES Proposal review team – founder/manager - Auburn University

2017 - 2020 AU Faculty Research committee - College of Agriculture representative - Auburn University

2019 - 2020 Aquatic Chemist faculty search committee - chair - School of Fisheries, Aquaculture, and Aquatic Sciences - Auburn University

2019 - 2020 AU College of Agriculture - Education advisory committee - Auburn University

2018 - 2020 Georgia Environmental Protection Division Harmful Algal Bloom Advisory Committee

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 10th 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 - 88th 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

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

2023 Invited to share information about the NSF Graduate Research Fellowship program with Research Experience for Undergraduates (REU) students from around the country

2022 Participated in an Illinois-Indiana Sea Grant workshop targeted for graduate students and postdocs to share information about funding opportunities. I discussed NSF programs and advice to be successful with grant proposals.

2022 Participated in Camp War Eagle meeting for new College of Agriculture students and their parents

2022 Organized a water quality workshop in west Alabama where we shared our current and planned research

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 4th 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)

CONFERENCE PRESENTATIONS (* PRESENTER; # STUDENT AUTHOR)

- Wilson, A. E.*** and S. Anantapantula#. 2023. Most treatments to control algal blooms are not effective: meta-analysis of field experiments. Society of Environmental Toxicology and Chemistry. Louisville, Kentucky.
- Wilson, A. E.*** and S. Anantapantula#. 2023. Most treatments to control algal blooms are not effective: meta-analysis of field experiments. International Conference on Harmful Algae. Hiroshima, Japan.
- Hennessey, A.##, M. McDonald#, H. P. P. Johnson#, M. Gladfelter#, K. Merrill#, S. Tenison#, G. S. S. Ganegoda, C. Cunningham, and **A. E. Wilson**. 2023. Evaluating the toxicity of copper sulfate pentahydrate at industry standard doses in hypereutrophic phytoplankton communities. 2023 College of Agriculture Graduate Student Poster Showcase. Auburn University. Auburn, Alabama. (poster)
- Fernandez-Figueroa, E. G.##, S. R. Rogers, M. N. Waters, and **A. E. Wilson**. 2023. The green convergence: United States lakes are collectively moving toward a eutrophic state. Association for the Sciences of Limnology and Oceanography. Mallorca, Spain. (poster)
- Fernandez-Figueroa, E. G.##, **A. E. Wilson**, and S. R. Rogers. 2023. Unoccupied aerial systems, or drones, for monitoring harmful algal blooms: A guide for aquatic scientists. Association for the Sciences of Limnology and Oceanography. Mallorca, Spain.
- Wilson, A. E.*** and S. Anantapantula#. 2023. Most treatments to control algal blooms are not effective: meta-analysis of field experiments. Association for the Sciences of Limnology and Oceanography. Mallorca, Spain.
- Bela, I. G.##, M. F. Gladfelter#, and **A. E. Wilson**. 2023. Prevalence of trace metal limitation on algal growth across a range of productivity. Auburn University Student Research Symposium, Auburn University, Auburn, Alabama.
- Brewer, P.##, E. Driessen#, S. Odom#, S. Ramsey#, S. Wood#, I. Hall#, **A. E. Wilson**, and C. Ballen. 2023. Strength in numbers? A meta-analysis on group work and student performance. Auburn University Student Research Symposium, Auburn University, Auburn, Alabama.
- Bela, I. G.##, M. F. Gladfelter#, and **A. E. Wilson**. 2023. Prevalence of trace metal limitation on algal growth across a range of productivity. SFAAS Student Research Symposium, Auburn University, Auburn, Alabama.
- Bela, I. G.##, M. F. Gladfelter#, and **A. E. Wilson**. 2023. Prevalence of trace metal limitation on algal growth across a range of productivity. Water and Climate Symposium, Auburn University, Auburn, Alabama. (poster)
- Zinnert, H.##, H. A. Torbert, D. Wang, and **A. E. Wilson**. 2023. Biogeochemical impacts of flue gas desulfurization gypsum (FGDG) in catfish aquaculture ponds. Water and Climate Symposium, Auburn University, Auburn, Alabama. (poster)
- Anantapantula, S.*# and **A. E. Wilson**. 2023. Most treatments to control algal blooms are not effective: meta-analysis of field experiments. World Aquaculture Society. New Orleans, Louisiana. **(1st place student oral presentation)**
- Murphy, K. M.*#, S. M. Le, **A. E. Wilson**, and D. W. Warner. 2023. The microbiome as a maternal effect: A meta-analysis on vertical transmission of microbiota. The Society of Integrative & Comparative Biology. Austin, Texas.
- Hare, E. T.*#, **A. E. Wilson**, and G. E. Hill. 2023. Trial by water: is mate choice important when birds fly across oceans? The Society of Integrative & Comparative Biology. Austin, Texas.
- Fernandez-Figueroa, E. G.*, **A. Wilson**, and S. R. Rogers. 2022. Comparing unoccupied aerial systems (UAS) for

- monitoring harmful algal blooms in small inland water bodies. Auburn University Postdoctoral Symposium, Auburn, Alabama.
- Zinnert, H.*#, K. Wang, **A. Wilson**, and A. Torbert. 2022. Controlling harmful algal blooms (HABs) in catfish aquaculture ponds using flue gas desulfurization gypsum (FGDG). ASA, CSSA, SSSA International Annual Meeting. Baltimore, Maryland.
- Bagherian, K.*#, Y. Bao, K. Kaye#, E. Fernandez-Figueroa, S. Rogers, and **A. Wilson**. 2022. Forecasting harmful algal blooms in inland water bodies using Sentinel-2 data and long-short term memory (LSTM). Alabama Water Resources Conference. Orange Beach, Alabama.
- Kaye, K.*#, E. G. Fernandez-Figueroa, K. Bagherian#, Y. Bao, **A. Wilson**, and S. R. Rogers. 2022. Commercially available UASs for monitoring water quality: best practices and collection methods. Alabama Water Resources Conference. Orange Beach, Alabama.
- Fernandez-Figueroa, E. G.*#, S. Rogers, M. Water, and **A. E. Wilson**. 2022. Initial trophic state classification mediates recent freshwater algal bloom trends in the United States. 11th US Symposium on Harmful Algae. Albany, New York.
- Gladfelter, M. F.*#, M. M. Steffen, H. R. Baylous#, and **A. E. Wilson**. 2022. Transcriptional response of *Microcystis* and supporting bacteria to supplementation and starvation of three nitrogen forms. 11th US Symposium on Harmful Algae. Albany, New York.
- Santos, S. R.*, P. M. Brannock, R. M. Yoshioka, R. C. Vaught, K. Carlson, C. Edwards, A. Tracy, C. W. Twining, Y. Zheng, **A. E. Wilson**, N. G. Hairston, Jr., and J. C. Havird. 2022. You are(n't) what you eat: DNA profiling of environmental microbial communities relative to the gut of *Halocaridina rubra* Holthuis, 1963 (Decapoda:Atyidae) from the Hawaiian anchialine ecosystem. 5th International Symposium on Anchialine Ecosystems. Kona, Hawaii.
- Gladfelter, M. F.*#, R. P. Buley#, A. P. Belfiore#, E. G. Fernandez-Figueroa#, B. L. Gerovac#, N. D. Baker#, and **A. E. Wilson**. 2022. Dissolved nitrogen form mediates phycocyanin content in cyanobacteria. Arkansas Water Resources Conference. Fayetteville, Arkansas.
- Zinnert, H.*#, H. A. Torbert, D. Wang, and **A. E. Wilson**. 2022. Controlling harmful algal blooms (HABs) with flue gas desulfurization gypsum (FGDG). Arkansas Water Resources Conference. Fayetteville, Arkansas. (poster)
- Gladfelter, M. F.*#, R. P. Buley#, E. G. Fernandez-Figueroa#, A. P. Belfiore#, and **A. E. Wilson**. 2022. The diazotroph, *Raphidiopsis*, dominates after reduced and oxidized nitrogen additions. Arkansas Water Resources Conference. Fayetteville, Arkansas. (poster)
- Fernandez-Figueroa, E. G.,*# **A. E. Wilson**, and S. R. Rogers. 2022. Commercially available unoccupied aerial systems (UAVs) for monitoring harmful algal blooms: a comparative study. Joint Aquatic Sciences Meeting. Grand Rapids, Michigan.
- Havird, J. C.*, P. M. Brannock, R. M. Yoshioka, R. C. Vaught, K. Carlson, C. Edwards, A. Tracy, C. W. Twining, Y. Zheng, **A. E. Wilson**, N. G. Hairston, Jr., and S. R. Santos. 2022. Animal-microbial ecology in the Hawaiian anchialine ecosystem. The Society of Integrative & Comparative Biology. Phoenix, Arizona.
- Fernandez-Figueroa, E. G.,*# **A. E. Wilson**, and S. R. Rogers. 2022. Comparing unoccupied aerial systems (UAS) for monitoring harmful algal blooms in small inland water bodies. American Association of Geographers annual meeting. New York, New York.
- Wilson, A. E.**#, A. Belfiore*, R. P. Buley*, E. G. Fernandez-Figueroa*, and M. Gladfelter*. 2022. Zooplankton as an alternative method for controlling phytoplankton in catfish pond aquaculture. World Aquaculture Society. San Diego, California.
- Wang, D., **A. E. Wilson**, and J. E. Stoeckel. 2021. Cost-effective and sustainable biochar-surfactant system has the potential to effectively sorb and destruct PFAS in water. SERDP-ESTCP Symposium. 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. 19th 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. 19th 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. 10.5th 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. 10.5th 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. 10.5th 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. 70th 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 Poster Showcase. Auburn University. Auburn, Alabama. (poster) **(1st 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) **(1st 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 39th 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) **(2nd 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) **(1st 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. 34th 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. 34th 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 72nd 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 2nd 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? 9th US Symposium on Harmful Algae. Baltimore, Maryland. (poster) **(1st 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. 8th 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. **(1st 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. 16th 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). 27th 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) **(3rd 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. **(2nd 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. **(2nd 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. **(1st 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. 37th 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. 21st 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. 21st SE NALMS Southeastern Lake and Watershed Management Conference. Columbus, Georgia. **(1st 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. 8th 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. **(2nd 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)
- Kozłowsky-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)

EXPERT WITNESS EFFORTS

- 2017 - 2018 Southern Environmental Law Center (Atlanta, Georgia); Challenge to TenCate for damaging the Flint River's water quality
- 2014 - 2016 Green Law and Southern Environmental Law Center (Atlanta, Georgia); Challenge to Rayonier for

- damaging Altamaha River water quality
- 2011 - 2016 Green Law (Atlanta, Georgia); Challenge to King America Finishing, Inc. associated with a large fish kill in the Ogeechee River
- 2015 U.S. Department of Homeland Security; Aided U.S. Customs agents' identification of materials related to dried phytoplankton shipped from Asia
- 2014 Military Justice Attorneys (Beaufort, South Carolina); Challenge to King America Finishing, Inc. associated with a large fish kill in the Ogeechee River
- 2012 Savage Law (Savannah, Georgia); Challenge to King America Finishing, Inc. associated with a large fish kill in the Ogeechee River
- 2010 Southern Environmental Law Center (Atlanta, Georgia); Challenge to a National Pollutant Discharge Elimination System (NPDES) Permit for the operation of Plant Washington
- 2010 Montgomery Police Department; Aided suspected child drowning case by comparing algal communities in samples collected from neighborhood pool and child's diaper
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ADDITIONAL TRAINING

- 2023 Completed two photography courses at Auburn University (Introduction and Intermediate)
- 2022 - 2023 LEAD21 - Leadership for the 21st Century participant
- 2022 FAA Remote Pilot (Small Unmanned Aircraft System) License
- 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

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|------------------------------------------------------------|-------------------|
| 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 |