

CURRICULUM VITAE

Krista A. Capps

Odum School of Ecology & Savannah River Ecology Laboratory
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The University of Georgia
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Education:

2012: Ph.D. Cornell University, Ithaca, New York

Ecology and Evolutionary Biology

Dissertation Title: *Changes in Community Structure and Ecosystem Processes in Response to Armored Catfish (Siluriformes: Loricariidae) Invasion*

Concentrations: Biogeochemistry, Community and Ecosystem Ecology, and Limnology

Special Committee Chair: Dr. Alex Flecker

2002: M.S. Indiana University, Bloomington, Indiana

Environmental Science, Emphasis: Applied Ecology

Advisors: Dr. Vicky Meretsky and William Jones

1998: B.S. Hope College, Holland, Michigan, *magna cum laude*

Majors: Biology, Political Science

Advisors: Dr. Kathy Winnett-Murray and Dr. James Zoetewey

Positions and Appointments:

2024-2025: Director, [FFIRE](#) Postdoctoral Scholars Program, U. Georgia

2024-2025: [Office of Research Faculty Fellow](#), U. Georgia

2024-2025: [Biodiversity & Climate Change Assessment Review Committee](#), US National Academies of Sciences, Engineering, and Medicine

2024-2025: [Active Learning Faculty Mentor](#), U. Georgia

2023-2025: Secretary/Treasurer, [Southeast Chapter](#), Society for Freshwater Science

2023-present: Member of the [University Teaching Academy](#), U. Georgia

2023-present: Associate Director, [River Basin Center](#), U. Georgia

2023-2024: [Senior Teaching Fellow](#), U. Georgia

2022-present: Associate Professor, Odum School of Ecology, U. Georgia

2022-present: Associate Professor, Savannah River Ecology Laboratory

2022-2024: Management Board, Diversity Joint Ventures

2020-2023: Advisory Board Member, River Basin Center, U. Georgia

2018-2020: Lilly Teaching Fellow, U. Georgia

2016-2017: Service-Learning Fellow, U. Georgia

2016-2023: Executive Committee, Center for Integrative Conservation Research, U. Georgia

2015-2022: Assistant Professor, Odum School of Ecology, U. Georgia

2015-2022: Assistant Professor, Savannah River Ecology Laboratory

2014-2015: Research Assistant Professor, Wildlife, Fisheries, & Conservation Bio., U. Maine

2012-2014: Postdoctoral Fellow, Sustainability Solutions Initiative, U. Maine

2011: Research Associate, Maine Center for Research in STEM Education, U. Maine

2010: Future Faculty Teaching Fellow, Cornell University

2010: Paul Fellow, Cornell University

2008: Fulbright-Hays Fellow, US Department of Education

2005-2011: Teaching Assistant, Cornell University

2004-2005: K-9 Instructor in Environmental Education, Physics, and Astronomy, Astrocamp

2002-2004: United States Peace Corps Volunteer, Honduras, Central America

2000-2002: General Biology Laboratory Instructor, Indiana University

Post-graduate Awards:

2025: [Creative Research Medal](#), University of Georgia

2023: [Russell Award for Excellence in Undergraduate Teaching](#), University of Georgia

2022: [Active Learning Leader Certificate](#), University of Georgia

2020: CAREER Award, National Science Foundation (NSF)

2019: Travel Engagement Award, Society for Freshwater Science

2018: Faculty Instructor of the Year, Odum School of Ecology, University of Georgia

2018-2020: [Lilly Teaching Fellowship](#), University of Georgia

2017: Faculty Instructor of the Year, Odum School of Ecology, University of Georgia

2016-2017: [Service-Learning Fellowship](#), University of Georgia

2015: STEM Initiative Small Grant Recipient, University of Georgia

2012: Sustainability Science Postdoctoral Fellowship, University of Maine

2012: Best Oral Presentation in Basic Research (Runner-up), Society for Freshwater Science

2011: Excellence in Teaching Award, Ecology and Evolutionary Biology, Cornell University

2011: Student Travel Award, Ecological Society of America

2010: Future Faculty Teaching Fellowship, Cornell University

2010: Paul Fellowship, Cornell University

2010: Orenstein Fellowship, Cornell University

2010: Doctoral Dissertation Enhancement Program Award, NSF

2009: Loiselle Conservation Fellowship, American Cichlid Association

2009: Sigma Xi Student Research Award, Cornell University

2008: Fulbright-Hays Fellowship, US Department of Education

2008: Fulbright Student Grant Awardee, US Department of State (awarded, but declined)

2007: PADI Foundation Research Fellowship, PADI Foundation

2006: Kieckhefer Adirondack Fellowship, Cornell University

2006: East Asia & Pacific Summer Institutes Fellowship, NSF (awarded but declined)

2000: School of Public and Environmental Affairs Merit-Based Aid Award, Indiana University

RESEARCH

Publications (*Shared first authorship, #Invited papers; °Anchor author; *Graduate Advisee; ^Undergraduate Advisee):

GOOGLE SCHOLAR: [HTTPS://SCHOLAR.GOOGLE.COM/CITATIONS?USER=G6P_FSUAAAAJ&HL=EN&OI=AO](https://scholar.google.com/citations?user=G6P_FSUAAAAJ&hl=en&oi=ao)

UNDER REVIEW

1. *Bravo Ortiz, V., J. Darling, S. Lance, R. Bier, and **K. Capps°**. Complementary contributions of molecular and morphological methods in assessing aquatic macroinvertebrate communities. In review *Freshwater Biology*.
2. Solomon, K. **K. Capps°**. Enhancing access to K–12 summer STEM programs through proactive planning and budgeting. In review, *Ecology and Evolution*
3. Sánchez González, I, S. Wenger, and **K. Capps°**. Publicly available data reveal information gaps in freshwater mussel–fish interactions and co-occurrence critical to biodiversity conservation. In review *Aquatic Conservation in Marine and Freshwater Systems*.
4. Sánchez González, I, A. Park, **K. Capps°**. Trait-based drivers of host specificity in freshwater mussel–fish parasitic interactions in review at *Journal of Animal Ecology*.

5. Blinn, A. R. Hale, and **K. Capps**^o. Characterizing dissolved organic carbon in urban streams: Interpreting fluorescence fingerprints of human-derived spatial subsidies. In review *Freshwater Science*.

ACCEPTED, IN PRESS, AND PUBLISHED JOURNAL ARTICLES:

1. Hale, R.L. **K.A. Capps**, E. Cook., and R. Scarlett. Transformative adaptation needed to break cycles of inequitable urban flood management. *Accepted for publication*. *Nature Water*.
2. Pease, A. A., Mendoza-Carranza, M., Hoeinghaus, D. J., & **Capps, K.A.**^o. 2025. Migratory Euryhaline Fishes Connect Food Webs From Coastal Wetlands to Tropical Rainforests in the Usumacinta River, Mexico. *In press*. *River Research and Applications*.
3. Pease, A. A., Mendoza-Carranza, M., *Jacobs, G. R., & **Capps, K.A.**^o. 2025. Importance of a large, free-flowing river for snook in the southern Gulf of Mexico. *Marine and Coastal Fisheries*, 17(5), vtaf037.
4. Hopkins, K.G., Hale, R.L., **Capps, K.A.**, Kominoski, J.S., Morse, J.L., Roy, A.H., Blinn, A., Chen, S., Muñoz, L.O., Quick, A. and Rudolph, J., 2025. Overcoming challenges in mapping hydrography and heterogeneity in urban landscapes. *Hydrological Processes*, 39(8), p.e70221.
5. Hale, R.L., Hopkins, K.G., **Capps, K.A.**, Kominoski, J.S., Morse, J.L., Roy, A.H., Chen, S., Quick, A., Blinn, A.J., Ortiz Muñoz, L. and Folk, G., 2025. Urban heterogeneity drives dissolved organic matter sources, transport, and transformation from local to macro scales. *Limnology and Oceanography*.
6. Castillo, M. M., Ulseth, A. J., Jarquín-Sánchez, A., Álvarez-Merino, A., & **Capps, K.A.**^o. 2025. Hydrological seasonality is a major driver of ecosystem metabolism in tropical nonwadeable rivers. *Limnology and Oceanography*, 70(9), 2417-2430.
7. *Cross, D. A., Costello, D. M., Tiegs, S. D., Kuehn, K. A., Halvorson, H. M., Pignatelli, A. J., & **Capps, K.A.**^o. 2025. Influence of urbanization on organic matter processing and nutrient immobilization in wadeable streams (southeastern USA). *Freshwater Science*, 44(4), 000-000.
8. Wenger, S.J., Bhaskar, A.S., Murphy, B., Neale, M., Scoggins, M., Barrett, I., Bledsoe, B., **Capps, K.A.**, Castillo, M.M., Diaz Pascacio, E. and Hadwen, W.L., 2025. Reorienting urban stream management to focus on equitable delivery of benefits. *PLOS Water*, 4(2), p.e0000308.
9. *Martin, E., Sweeney, L. C., **Capps, K.A.**, McNeish, R. E., & Golladay, S. W. 2025. Exploring patterns in microplastic pollution in a large rural watershed. *Journal of Environmental Quality*, 1–11. <https://doi.org/10.1002/jeq2.70109>
10. *Sharapi, J. G., Gaur, N., Bateman McDonald, J. M., Connelly, K. N., & **Capps, K.A.**^o. 2025). Assessing Environmental Complexities of Decentralized Wastewater Infrastructure Using Machine Learning: A Case Study. *Journal of Water Resources Planning and Management*, 151(8), 05025007.
11. *Lopez Avila, F., **Capps, K.A.**, & Bier, R. L. 2025. Surface Texture of Macroplastic Pollution in Streams Alters the Physical Structure and Diversity of Biofilm Communities. *Environmental Microbiology Reports*, 17(2), e70068.
12. *Vargas-López, N., **Capps, K.A.**, Jacobsen, D., & Rojas-Castillo, O. A. 2024. The influence of land cover on periphyton communities in streams in northern Guatemala. *Boletín de la Sociedad Zoológica del Uruguay*, 33(2), e33-2.
13. *Tiegs, S. D.[‡], **Capps, K.A.**, Costello, D. M.[‡], Schmidt, J. P., Patrick, C. J., Follstad Shah, J. J., ... & Zhang, Y. (2024). Human activities shape global patterns of decomposition rates in rivers. *Science*, eadn1262.
14. Pease, A. A., Jacobs, G. R., Mendoza-Carranza, M., Rodiles-Hernández, R., Wenger, S. J., & **Capps, K.A.**^o. 2023. Otolith microchemistry highlights the importance of extensive connectivity for conservation of an iconic migratory fish in a large tropical river basin. *Aquatic Conservation: Marine and Freshwater Ecosystems*. 33: 969-980.
15. Jackson, C. R., Wenger, S. J., Bledsoe, B. P., Shepherd, J. M., **Capps, K.A.**, Rosemond, A. D., ... & Rasmussen, T. C. 2023. Water supply, waste assimilation, and low-flow issues facing the Southeast

- Piedmont Interstate-85 urban archipelago. JAWRA Journal of the American Water Resources Association, 59:1146-1161.
16. Turner, T.T., H.L. Bart, F.H. McCormick, A.C. Besser, R.E. Bowes, **K.A. Capps**, et. 2023. Long-term ecological research in freshwaters enabled by regional biodiversity collections, stable isotope analysis, and environmental informatics. *BioScience*, 73(7), 479-493.
 17. McFall, A. J., Ziemba*, J., Weir, S. M., **Capps, K.A.**, & Lance, S. L. 2023. Amphibian Dispersal Traits Not Impacted by Triclopyr Exposure during the Juvenile Stage. *Diversity*, 15(2), 215.
 18. *Connelly, K., Wenger, S., Gaur, N., McDonald, J., Occhipinti, M., & **Capps, K.A.**°. 2023. Assessing relationships between onsite wastewater treatment system maintenance patterns and system-level variables. *Science of The Total Environment*, 161851.
 19. Mamun, S. M., Hossain, M. S., & **Capps, K.A.**° 2023. Promoting community-based surveillance of economically important invasive species in lower-income economies: a case study of the suckermouth catfish (*Pterygoplichthys pardalis*) in Bangladesh. *Biological Invasions*, 1-6.
 20. Damashek, J., Westrich, J.R., McDonald, J.M.B., Teachey, M.E., Jackson, C.R., Frye, J.G., Lipp, E.K., **Capps, K.A.** and Ottesen, E.A., 2022. Non-point source fecal contamination from aging wastewater infrastructure is a primary driver of antibiotic resistance in surface waters. *Water Research*, 222, p.118853.
 21. Costello, D.M., Tiegs, S.D., Boyero, L., Canhoto, C., **Capps, K.A.**, Danger, M., Frost, P.C., Gessner, M.O., Griffiths, N.A., Halvorson, H.M. and Kuehn, K.A., 2022. Global patterns and controls of nutrient immobilization on decomposing cellulose in riverine ecosystems. *Global Biogeochemical Cycles*, 36(3), p.e2021GB007163.
 22. *Fallon, C. E., **K.A. Capps**, M.C. Freeman, C.R. Smith, S.W. Golladay. 2022. Effects of stream intermittency on minnow (Leuciscidae) and darter (Percidae) trophic dynamics in an agricultural watershed. *Ecology of Freshwater Fish*. <https://doi.org/10.1111/eff.12649>
 23. **Capps, K.A.**, S. Chapman, K. Clay, J. Fresnedo-Ramirez, D. Potts. 2021. Reshaping the tree of life: ecological implications of evolution in the Anthropocene. *Frontiers in Ecology and the Environment*. <https://doi.org/10.1002/fee.2434>
 24. **Capps, K.A.**, N. Gaur, T. Callahan, A. Orrego, D. Bloyer, K. Higgs, and D. Johnson. 2021. Disparities between the Demand for On-Site Wastewater Treatment Systems and Treatment Options for Septage. *ACS ES&T Water*, 1(10), 2251-2258.
 25. *Espinoza-Toledo, A., M. Mendoza-Carranza, M.M Castillo, E. Barba, and **K.A. Capps**. 2021. Taxonomic and functional responses of streams macroinvertebrates to riparian forest conversion in tropical streams. *Science of the Total Environment* 757: 143972.
 26. *Saur, K., D. Capps, D. Jackson, and **K.A. Capps**. 2021. Six minutes to promote change: people, not facts alter students' perceptions on climate change. *Ecology and Evolution*. <https://doi.org/10.1002/ece3.7553>
 27. **Capps, K.A.**, J. McDonald, N. Gaur, R. Parsons^ . 2020. Assessing the socio-environmental risk of onsite wastewater treatment systems to inform management decisions. *Environmental Science and Technology* 54: 14843-14853.
 28. Rhodes, O. G., Jr. et al. 2020. Integration of ecosystem science into radioecology: a consensus perspective. *Science of the Total Environment* 740: 140031
 29. Chen, S, Y. H. Lu, P. Dash, P. Das, J. Li, **K.A. Capps**, H. Majidzadeh, M. Elliott. 2019. Hurricane pulses: small watershed exports of dissolved nutrients and organic matter during large storms in the Southeastern United States. *Science of the Total Environment* 689: 232-244.
 30. **Capps, K. A.** 2019. Wastewater infrastructure and the ecology and management of freshwater systems. *Acta Limnologica Brasiliensia* 31, e104. Epub June 13, 2019.<https://dx.doi.org/10.1590/s2179-975x3719>.
 31. *Moody, E. F. Alda, **K. A. Capps**, O. Puebla, B. L. Turner. 2019. Trophic trait evolution explains variation

- in nutrient excretion stoichiometry among Panamanian armored catfishes (Loricariidae). *Diversity* 2019, 11: 88.
32. Parr, T. B., **Capps, K. A.**, Inamdar, S. P., & Metcalf, K. A. 2019. Animal-mediated organic matter transformation: Aquatic insects as a source of microbially bioavailable organic nutrients and energy. *Functional Ecology* 33: 524-535.
 33. Pease, A.A., **K. A. Capps**, R. Rodiles-Hernández, M. M. Castillo, M. Mendoza Carranza, M. Soria Barreto, and A. A. González Díaz. 2019. Trophic structure of fish assemblages varies across Mesoamerican river networks with contrasting climate and flow conditions. *Food Webs*, 18, e00113.
 34. Tiegs, S. et al. 2019. Global patterns and drivers of ecosystem functioning in rivers and riparian zones. *Science advances*, 5(1), eaav0486.
 35. *Lázaro-Vázquez, A., M. M. Castillo, A. Jarquín-Sánchez, L. Carrillo and **°K. A. Capps**. 2018. Temporal changes in the hydrological and chemical characteristics of a large tropical river: anthropogenic influence in the lower Grijalva River, Mexico. *River Research and Applications* 34: 649-660.
 36. ^Olivera-Cunha, P., **K. A. Capps**, V. Neres-Lima, C. Lourenco-Amorim, F. Tromboni, T.P. Moulton, E. Zandona. 2018. Effects of incubation conditions on nutrient mineralisation rates in fish and shrimp. *Freshwater Biology* 63: 1107-1117.
 37. Prater, C., D. Scott, S. L. Lance, S. O. Nunziata, R. Sherman, N. Tomczyk, **°K. A. Capps**, P. D. Jeyasingh. 2018. Understanding variation in salamander ionomes: A nutrient balance approach. *Freshwater Biology* 64: 294-305.
 38. Pfeiffer, J. M., C. L., Atkinson, A. E. Sharpe, **K. A. Capps**, K. F. Emery, L. M. Page. 2019. Phylogenetic analysis of Mesoamerican freshwater mussels and a revised tribe-level classification of the Ambelminae (Bivalvia, Unionidae). *Zoologica Scripta*: 48: 106-117.
 39. *Tomczyk, N.J., T.B. Parr, E. Gray, and **°K.A. Capps**. 2018. Trophic strategies influence metal bioaccumulation in detritus-based, aquatic food webs. *Environmental Science and Technology* 52: 11886-11894.
 40. *Tomczyk, N.J., T.B. Parr, S. Wenger, and **°K.A. Capps**. 2018. The influence of land cover on the sensitivity of streams to metal pollution. *Water Research* 144: 55-63.
 41. **Capps, K. A.**, M. M. Castillo, A. A. Pease, A. Jarquín-Sánchez, and R. Rodiles-Hernández. 2017. Tourism, wastewater, and freshwater conservation in protected areas. *Southwestern Naturalists* 62: 220-225.
 42. Atkinson, C.L., **K. A. Capps**, A. Rugenski, M. Vanni. 2017. Consumer-driven nutrient dynamics in freshwater ecosystems: from individuals to ecosystems. *Biological Reviews* 92: 2003-2023.
 43. Vanni, M. J. et al. 2017. A global database of nitrogen and phosphorus excretion rates of aquatic animals. *Ecology*, n/a-n/a. doi:10.1002/ecy.1792
 44. Tiegs, S. D., K. A. Berven, D. J. Carmack, and **K. A. Capps**. 2016. Stoichiometric implications of a biphasic life cycle. *Oecologia* 180: 853-63.
 45. **#Capps, K. A.**, C. N. Bentsen, and A. Ramírez. 2016. Poverty, urbanization, and environmental degradation: urban streams in the developing world. *Freshwater Science* 35: 429-435.
 46. **#Booth, D.B.**, A. H. Roy, B. Smith, and **K. A. Capps**. 2016. Global perspectives on the urban stream syndrome. *Freshwater Science* 35: 421-428.
 47. **#Roy, A. H.**, **K. A. Capps**, R. W. El-Sabaawi, K. L. Jones, T. B. Parr, A. Ramírez, R. F. Smith, C. J. Walsh, S. J. Wenger. 2016. Urbanization and stream ecology: diverse mechanisms of change. *Freshwater Science* 35: 272-277.
 48. **#Cease, A.**, **K. Capps**, K. Gates, M. McCrackin, and D. Nidzgorski. 2015. Consumer-driven nutrient dynamics in urban environments: the stoichiometry of human diets and waste. *Oikos* 124: 931-948.
 49. **#Capps, K. A.** and A.S. Flecker. 2015. High impact of low-trophic position invaders: effects of non-native grazing fishes on the quantity and quality of basal food resources. *Freshwater Science* 34:784-796.
 50. **Capps, K.A.**, C.L. Atkinson, A. Rugenski. 2015. Implications of species addition and decline on nutrient dynamics in freshwaters. *Freshwater Science* 34: 485-496.

51. **Capps, K.A.**, G. Ng[^], and J. S. Strickland. 2015. Environmental assessment of stream habitats bordering Palenque National Park, Chiapas, Mexico. *Southwestern Naturalist* 59:286-292.
52. **Capps, K.A.**, C.L. Atkinson, A. Rugenski. 2015. Consumer-driven nutrient dynamics in freshwaters: an introduction. *Freshwater Biology* 60: 439–442.
53. **#Capps, K.A.**, K. Berven, S. Tiegs. 2015. Modeling nutrient transport and transformation by pool-breeding amphibians in forested landscapes using a 21-year dataset. *Freshwater Biology* 60: 500-511.
54. **#Capps, K. A.**, A. Ulseth, and A. S. Flecker. 2014. Quantifying the top-down and bottom-up effects of non-native grazers in freshwaters. *Biological Invasions* 2014: 1-14.
55. Tallis, H, J. Lubchenco, V. Adams et al. 2014. Towards a diverse conservation ethic. *Nature* 515: 27–28 (06 November 2014) doi:10.1038/515027a
56. **Capps, K. A.**, R. Rancatti, N. Tomczyk[^], T. Parr, A.J.K. Calhoun, M. Hunter. 2014. Biogeochemical hotspots in forested landscapes: The role of vernal pools in denitrification and organic matter processing. *Ecosystems* 17: 1455-1468.
57. **Capps, K. A.**, and A. S. Flecker. 2013. Invasive aquarium fish transform ecosystem nutrient dynamics. *Proceedings of the Royal Society B*. 280: doi: 10.1098/rspb.2013.1520
58. ^{*}Lienart, G. D. H., R. Rodiles-Hernandez, and **K. A. Capps**. 2013. Nest burrows and nesting behavior of non-native catfishes (Siluriformes: Loricariidae) in the Usumacinta-Grijalva watershed, Mexico. *The Southwestern Naturalist*: 58: 239-243.
59. **Capps, K. A.**, and A. S. Flecker. 2013. Invasive fishes generate biogeochemical hotspots in a nutrient-limited system. *PLoS ONE* 8(1): e54093. doi:10.1371/journal.pone.0054093.
60. **Capps, K. A.**, C.L. Atkinson, A. Rugenski, C.V. Baxter, K.S. Boersma, C.C. Carey, P.B. McIntyre, J.W. Moore, W.H. Nowlin, and C.C. Vaughn. 2012. Impacts of species addition and species loss on ecosystem function in freshwater systems. *ESA Bulletin* 93: 402-408.
61. **Capps, K. A.**, L. G. Nico, M. Mendoza Carranza, W. Areválo-Frías A. J. Ropicki, S. A. Heilpern[^], and R. Rodiles-Hernández. 2011. Salinity tolerance of the exotic armored catfish (Siluriformes: Loricariidae) in southern Mexico: potential new pathways for invasion. *Aquatic Conservation: Marine and Freshwater Ecosystems* 21: 528-540.
62. **Capps, K. A.**, M. T. Booth, S. M. Collins, M. A. Davison, J. M. Moslemi, R. W. El-Sabaawi, J. L. Simonis, and A. S. Flecker. 2011. Nutrient diffusing substrata: a field comparison of commonly used methods to assess nutrient limitation. *Journal of the North American Benthological Society* 30: 522-532.
63. **Capps, K. A.**, M. A. S. Graça, A. C. Encalada, and A. S. Flecker. 2010. Leaf-litter decomposition across three flooding regimes in a seasonally flooded Amazonian watershed. *Journal of Tropical Ecology* 27: 205-210.
64. **Capps, K. A.**, M. A. Davison, Y. A. Kapetanakos, J. M. Moslemi, and C. E. Wagner. 2009. Crossing borders: promoting graduate research in the developing world. *Frontiers in Ecology and the Environment* 7: 333-334.
65. Moslemi, J. M., **K. A. Capps**, M. S. Johnson, J. Maul, P. B. McIntyre, A. M. Melvin, T. M. Vadas, D. M. Vallano, J. M. Watkins, and M. Weiss. 2009. Training tomorrow's environmental problem-solvers: an integrative approach to graduate education. *Bioscience* 59: 514-521.
66. **Capps, K. A.**, C. B. Turner, M. T. Booth, D. L. Lombardozzi, S. H. McArt, D. Chai, and N. G. Hairston Jr. 2009. The behavioral responses of the endemic shrimp *Halocardina rubra* (Malacostraca:Atyidae) to an introduced fish, *Gambusia affinis* (Actinopterygii: Poeciliidae) and implications for the trophic structure of Hawaiian anchialine ponds. *Pacific Science* 63: 27-37.
67. Capps, D. K., **K. A. Capps**, B. A. Crawford. 2008. A student-centered project focused on obtaining clean drinking water for a community. *Science Scope*: December 2008.
68. Voigt, C. C., **K. A. Capps**, D. K. N. Dechmann, R. H. Michener, T. H. Kunz. 2008. Nutrition or detoxification: why bats visit mineral licks of the Amazonian Rainforest. *PLoS ONE* 3(4): e2011. doi:10.1371/journal.pone.0002011

BOOKS AND BOOK CHAPTERS:

Allan, J.D., M.M. Castillo, and **K.A. Capps**. 2021. *Stream ecology: structure and function of running waters. Third Edition*. Springer Science & Business Media;
<https://www.springer.com/us/book/9783030612856>.

Dr. Capps authored five of the 15 chapters. One of the chapters was completely new to the book (Stream Microbial Ecology) and the remaining four chapters were extensively restructured and updated (Stream Chemistry, Detrital Energy and the Decomposition of Organic Matter, Lotic Communities, Carbon Dynamics and Stream Ecosystem Metabolism). She co-wrote three additional chapters which were also extensively updated (Trophic Relationships, Energy Flow and Nutrient Cycling in Aquatic Communities, and Nutrient Dynamics). She contributed information pertaining to ecosystem ecology, urban stream ecology, and tropical stream ecology throughout the text. Dr. Capps also edited the entire manuscript with her co-authors. Previous editions of the book are downloaded extensively (>100,000 times) and are highly cited.

Pease, A. A., **Capps, K. A.**, Castillo, M. M., Hendrickson, D. A., Mendoza-Carranza, M., Rodiles-Hernández, R., ... & Contreras-MacBeath, T. (2023). Rivers of Mexico. In Rivers of North America (pp. 974-1024). Academic Press.

PUBLISHED DATASETS:

Ortiz Munoz, L.D., C.B. Rizzie, S. Chen, **K.A. Capps**, J.S. Kominoski, and R.L. Hale. 2025. Dissolved organic carbon concentrations for seasonal synoptic sampling of 93 urban streams in Atlanta, Georgia (USA) from 2021-2022 ver 1. Environmental Data Initiative.
<https://doi.org/10.6073/pasta/588fcfecd99c1c41e4b505eb7b6ad27> (Accessed 2025-09-05).

Chen, S. and **K.A. Capps**. 2025. Field data for seasonal synoptic sampling of 93 urban streams in Atlanta, Georgia (USA), 2021-2022 ver 1. Environmental Data Initiative.
<https://doi.org/10.6073/pasta/3976d148fed453a2b9c778462c9fd96f> (Accessed 2025-09-05).

Chen, S., L.D. Ortiz Muñoz, C.B. Rizzie, J.S. Kominoski, R.L. Hale, and **K.A. Capps**. 2025. Dissolved organic matter characterization for seasonal synoptic sampling of 93 urban streams in Atlanta, Georgia (USA) from 2021-2022 ver 1. Environmental Data Initiative.
<https://doi.org/10.6073/pasta/d06d39164a3f06dc08d8fc75a16dd6bb> (Accessed 2025-09-09).

Hopkins, K.G., Hale, R., **Capps, K.**, Kominoski, J., Morse, J., Roy, A., Blinn, A., Chen, S., Ortiz Muñoz, L., Quick, A., Rudolph, J., 2024, Landscape characteristics for urban gradients in United States cities across multiple scales: U.S. Geological Survey data release,
<https://doi.org/10.5066/P13UZYF>.

SPECIAL EDITION ORGANIZATION/EDITING:

Capps, K. A. Global Perspectives on the Urban Stream Syndrome. Bridges Cluster: Freshwater Science 2016.

Roy, A., C. Walsh, **K. Capps**, R. El-Sabaawi, R. Smith, A. Ramirez. Urbanization and Stream Ecology: Diverse Mechanisms of Change. Freshwater Science 2016.

Capps, K.A., C.L. Atkinson, A. Rugenski. 2015. Synthesizing ecosystem-level effects of consumer-driven nutrient dynamics in freshwaters. Freshwater Biology March 2015.

OTHER PUBLICATIONS (NON-PEER REVIEWED):**Published Abstracts:**

Carr, B., **Capps, K.**, & Gaur, N. (2021, December). On Automating the Creation of a County-Wide Decentralized Wastewater Management Database: A Case Study from Jackson County, Georgia. In AGU Fall Meeting Abstracts (Vol. 2021, pp. H35L-1168).

Scott, C., **Capps, K.**, Gaur, N., Gordon, J., Lucas, M., & Abney, R. (2021, December). Urban soil disturbance

and tree health: Altered nutrient, organic matter, and water fluxes in septic leach field soils impact tree health. In AGU Fall Meeting Abstracts (Vol. 2021, pp. B55A-1197).

Scott, C., **Capps, K.**, Gaur, N., Gordon, J., & Abney, R. (2021, November). Characteristics of Septic Leach Field Soils Impact on Urban Tree Health. In ASA, CSSA, SSSA International Annual Meeting. ASA-CSSA-SSSA

Popular Articles and Government Reports:

Collins, R. and **K. A. Capps**. 2010. The common enemy. Practical Fishkeeping August: 78-81.

Capps, K. A. 2009. The effects of exotic armored catfish on native cichlid habitat quality and abundance. Buntbarsche Bulletin 254: 5-6.

Capps, D. K., **K. A. Capps**, and C. J. Fajardo. 2004. Guía interpretativa de los senderos del Parque Eco-Arqueológico Las Cuevas de Talgua. Instituto Hondureño de Antropología e Historia. Tegucigalpa, Honduras.

Forest Service: Lack of financial performance accountability has resulted in inefficiency and waste, GAO/T-RCED/AMID-98-135, 1998, United States Government.

Grants & Scholarships:

EXTERNAL GRANTS THAT ARE CURRENTLY UNDER REVIEW:

- NASA-- HY-STRESS: Leveraging satellite data to aid water management agencies in managing HYdrologically STressed Regions with Septic Systems
- Burroughs Welcome Fund—Climate and Health Center, University of Georgia. One of 11 preproposals selected for full proposal review (Large, interdisciplinary proposal).
- National Science Foundation DEB Ecosystems Full Proposal –Co-I, Lead at University of Utah (Collaborative Grant: LATTICE: Linking Aquatic-Terrestrial Trait responses to Integrate Carbon fluxes across Earth's biomes)--
- Georgia Environmental Protection Division SEED Grant –CO-I, Lead in the Department of Crop and Soil Sciences (Watershed Protection and Education Associated with Decentralized Water Infrastructure)

POST-GRADUATE RESEARCH AWARDS (*CO-AUTHORED BY GRADUATE MENTEE):

External Awards:

2024: National Science Foundation: Non-Academic Research Internships for Graduate Students (INTERN)" Supplemental Funding Opportunity, Supplemental Funding. PI: K. Capps. (\$51,331)

2022: Wet Weather Septic Study, Metro District ATL (\$199,000) Krista Capps (PI, UGA), Nandita Gaur (co-PI, UGA), Erin Lipp (co-PI, UGA), Rebecca Abney (co-PI, UGA)

2021: Savannah River Site Funding: Fish assemblages and biotic integrity as indicators of stream health on the Savannah River Site Stacey Lance (PI, SREL), Krista Capps (Co-PI, SREL), Dean Fletcher (Co-PI, SREL), Ben Parrott (Co-PI, SREL), Guha Dharmarajan (Co-PI, SREL), and Raven Bier (Co-PI, SREL),.. (\$269,244)

2021: National Science Foundation (2136349): Research Experience for Post-Baccalaureate Students (REPS) in the Biological Sciences Supplemental Funding Opportunity, Supplemental funding. PI: K. Capps. (\$45,634)

2021: National Science Foundation (2015619): Collaborative Research: Scales and drivers of variability in dissolved organic carbon across diverse urban watersheds. (Ecosystems/Macrosystems Biology) Lead PI: Capps (UGA portion of grant) Project Lead PI: Rebecca Hale, Idaho State; Other PIs associated with the grant: Krissy Hopkins (USGS), John Kominoski (FIU), Jennifer Morse (PSU), Allison Roy (UMass). (UGA \$117,956; Total Budget \$1,412,039).

2020: National Science Foundation (1941555) CAREER: The impacts of anthropogenically-derived

- subsidies on freshwater ecosystems. PI: Krista Capps (\$1,184,890)
- 2020: Metabolismo del ecosistema en ríos tropicales: la influencia de la estacionalidad hidrológica y las presiones humanas (Ecosystem metabolism in tropical rivers: the influence of hydrological seasonality and human pressures). Convocatoria Ciencia de Frontera 2019. Consejo Nacional de Ciencia y Tecnología (CONACYT), México. Lead PIs: MM Castillo, M Cazanelli, El Colegio de la Frontera Sur (ECOSUR), México. Co-Pis: W. Arévalo Frías (UJAT), K. Capps, A. (UGA), Jarquín Sánchez (ECOSUR), M Mendoza Carranza (ECOSUR), A. Mesa Jurado (ECOSUR), D. Ramos Muñoz (ECOSUR), R. Rodies Hernández (ECOSUR), A. Ulseth (SHSU). (\$978,435 MX; ~\$44,633 USD; Awarded to ECOSUR)
- 2020: National Science Foundation (1952183): SCC-PG Smart Septic Strategies: Data Integration to Manage Hidden Infrastructure Threats to Our Homes and Communities (Division of Computer and Network Systems). Lead PI: Brian Bledsoe, Co-Pis: Krista Capps, Kyle Johnsen, WenZhan Song (\$150,000)
- 2020: National Science Foundation (2035534): RAPID: Soil and water biogeochemical response to COVID-19: increased stress on septic systems alters soil and water quality. (Geobiology & Low-Temp Geochem) Lead PI: Rebecca Abney, Co-Pis: Nandita Gaur, Lori Sutter, Krista Capps, Jacob Bateman McDonald (\$99,993)
- 2020: Savannah River Site Area Completion Projects: Examination of Cesium-137 accumulation in terrestrial and aquatic food webs in the Joyce's Branch Tributary. PIs: Stacey Lance, Larry Bryan, Krista Capps (\$67,000)
- 2017: Regional Water Plan Seed Grant, Georgia Environmental Protection Division, Investigating increasing bromide concentrations in the Butts County drinking water supply to support activities outlined in the Middle Ocmulgee Regional Water Plan. PI: Dr. Krista Capps (\$115,214)
- 2016: The Georgia Tech Resource Corporation, Linking water infrastructure and ecological stoichiometry. PI: Dr. Krista Capps (\$50,000)
- 2015: USGS Water Research Resources Institute, *Water budget, groundwater exchange and hydrologic variability of central Maine's seasonal forest pools*. Lead PI: Dr. Andy Reeve, UMaine; Co-Pis: Dr. Aram Calhoun, UMaine; Dr. Krista Capps, UMaine (\$55,070)
- 2014-2015: National Science Foundation (1427608) Catalyzing New International Collaborations, *Mexican Urban Stream Ecology* Lead PI: Dr. Krista Capps, UMaine; Co-Pis: Dr. Allison Pease, Texas Tech; Dr. Seth Wenger, UGeorgia (\$99,988)
- 2014-2015: UCMexus, *Context dependence of consumer-driven ecosystem effects across a river continuum: Integrating physiology, trophic ecology, and organismal stoichiometry* Lead PI: Dr. Donovan German, UC Irvine; Co-Pis: Dr. Krista Capps, UMaine; Dr. Allison Pease, Texas Tech (\$25,000)
- 2014-2015: National Geographic Conservation Trust Program, *Fisheries resources and ancient communities in a threatened Mesoamerican river: ecological and cultural implications of damming the Rio Usumacinta* Lead PI: Dr. Allison Pease, Texas Tech; Co-PI: Dr. Krista Capps, UMaine (\$19,600)
- 2014-2015: NSF DEB Workshop Proposal: *Symposium on Urbanization and Stream Ecology* Lead PI: Dr. Seth Wenger (\$14,116)
- 2014, 2015: Society for Freshwater Science Board of Directors/President's Discretionary Fund – Instars Mentoring Program to Broaden Participation of Undergraduates from Under-represented Groups and Ethnic Minorities, Co-PI Status (\$10,000 per year)
- 2013-2017: NSF Dynamics of Coupled Natural and Human Systems Program, *CNH: Small natural features with large ecosystem functions in urbanizing landscapes* Lead PI: Dr. Aram Calhoun, UMaine; Co-Pis: Drs. Kathleen Bell, Krista Capps, Malcolm Hunter, Michael Kinnison, Cynthia Loftin, UMaine; Dr. Dana Bauer, Boston University; Dr. Erik Nelson, Bowdoin College (\$1,488,433)

- 2012: USGS Toxic Substances Hydrology Program Research Grant Lead PI: Dr. Adria Elskus, UMaine; Co-PI: Dr. Krista Capps, UMaine; Chris Ingersoll, USGS (\$15,733)
- 2012: *Maine Agricultural and Forest Experiment Station Analytic Laboratory Research Grant (\$5,376)
- 2012: Research Grant, Maine EPSCoR (\$2,000)
- 2012: Seed Funding for Collaborative Grants Program, Maine EPSCoR (\$9,659)

Internal Research Awards UGA:

- 2024: Provost International Travel Funds, PI: Krista Capps (\$2,060)
- 2024: Rural Engagement Workshop for Academic Faculty Seed Grant, "County-level Assessment of Wastewater Infrastructure Needs for the State of Georgia (\$9,620) Krista Capps (PI, UGA)
- 2024: Office of Research Faculty Fellows Research Funds (\$10,000) Krista Capps (PI, UGA) support for research programming
- 2021: UGA Presidential Interdisciplinary Seed Grant Program: Bloom and doom: Is increasing risk of harmful algal blooms an inevitable consequence of global change? Assessing risk and exploring strategies in Georgia from biological and social perspectives. PI: C. Struthers, Co-PIs: K. Capps, P. Hazelton, M. Ritchie, A. Strauss (\$142,145)
- 2021: UGA Teaming for Interdisciplinary Research Pre-Seed Program Request: Combining terrestrial and aquatic perspectives to advance our understanding of ecosystems. Lead PI: S. Wenger, Co-PIs: R. Abney, R., Bier, K. Capps, N. Gaur, C. R. Jackson, N. Wurzbarger. (\$3,250)
- 2016: Faculty Research Grants in Science and Engineering, The stoichiometric underpinnings of success: investigating the influence of the quality of basal food resources on the body condition, population dynamics, and ecology of medically-important mosquitos. Lead PI: Dr. Krista Capps (\$9,946)
- 2016: CICR Faculty Research Development Grant. Lead PI: Dr. Krista Capps, UGA; Co-PIs: Dr. Jenn Rice, UGA; Dr. Kyle McKay, Army Corps of Engineers/UGA (\$2,000)

Internal Teaching/Mentoring Awards UGA:

- 2024: Student Technology Fee Technology Award, PI: Krista Capps and Alex Strauss. (\$3,572)
- 2024: Active Learning Faculty Mentor Funds (\$2,000) Krista Capps (PI, UGA) support for active learning activities
- 2024: Senior Teaching Fellows Project Development Funds (\$2,000) Krista Capps (PI, UGA) support for instructional project designed to strengthen courses and teaching methods in each participant's academic department
- 2023: Teaching Enhancement and Innovation Fund (\$560.00) Krista Capps (PI, UGA) support for active learning in the classroom
- 2022: UGA Learning Technologies Grant (\$25,000) Xiaoming Zhai (PI, UGA), Krista Capps (co-PI, UGA), Amanda Rugenski (co-PI, UGA)
- 2017: Enhancing Human Diversity in the Pursuit of Research in Ecology, Evolution and Environmental Science at UGA. New Approaches to Diversity, University of Georgia. PI: Dr. Krista Capps (\$14,800)
- 2016: Student Technology Fee Funds Grant University of Georgia, Providing access to real-time environmental data in UGA Classrooms. PI: Dr. Krista Capps (\$45,571)
- 2015: *The UGA STEM Initiative Small Grants Program, Development of a service-learning course on the ecology of the urbanized landscape. Lead PI: Dr. Krista Capps, UGA; Co-PIs: Dr. Seth Wenger, UGA; Mr. James Wood, UGA (graduate stipend and course costs)

POST-GRADUATE FELLOWSHIPS

- 2024: Office of Office of Research (OoR) Faculty Fellowship, UGA (\$10,000)
- 2022: Women in STEM Leadership Program Fellowship, Alan Alda Center for Communicating Science
- 2022: Active Learning Summer Institute Fellowship, UGA (\$7,500)

2018: Lilly Teaching Fellowship, UGA (\$2,000)

2016: Service-Learning Fellowship. *Service-Learning in Urban Environments*, UGA (\$2,497)

2012: Sustainability Science Postdoctoral Fellowship, University of Maine

POST-GRADUATE TRAVEL AWARDS

2019: Society for Freshwater Science, Travel Engagement Award (\$300)

RESEARCH GRANTS RECEIVED IN GRADUATE SCHOOL

2010: Doctoral Dissertation Enhancement Program Grant, National Science Foundation

2009: American Cichlid Association: Loiselle Conservation Award

2009: Sigma Xi Student Research Award, Cornell University

2007, 2008, 2009, 2010: Dept. of Ecology and Evolutionary Biology Research Stipend, Cornell University

2007: PADI Foundation Research Grant, PADI Foundation

2006, 2007, 2008, 2009: Small grant, Biogeochemistry & Environmental Biocomplexity IGERT, Cornell University

2006: Kieckhefer Adirondack Fellowship, Cornell University

FELLOWSHIPS RECEIVED IN GRADUATE SCHOOL

2010: Paul Graduate Fellowship, Cornell University

2010: Tinker Field Research Fellow, Latin American Studies Program, Cornell University

2008: Fulbright-Hays Fellowship, US Department of Education

2008: Fulbright Grant, US Department of State—*awarded but declined*

2008: Orenstein Research Fellow, Cornell University

2006: East Asia & Pacific Summer Institutes, National Science Foundation—*awarded but declined*

2001: The Jug Bay Fellows Research Stipend, Jug Bay Wetland Sanctuary, Lothian, Maryland

TEACHING AWARDS RECEIVED IN GRADUATE SCHOOL

2011: Excellence in Teaching Award, Cornell University

2010: Future Faculty Teaching Fellowship, Cornell University

TRAVEL GRANTS RECEIVED IN GRADUATE SCHOOL

2011: Ecological Society of America Student Travel Award

2010: Graduate Research Travel Grant, Cornell University

2008: Einaudi Center International Travel Grant, Cornell University

2008, 2009, 2010: Graduate Student Conference Grant, Cornell University

2007, 2008: Latin American Studies Program, Cornell University

AWARDS RECEIVED AS AN UNDERGRADUATE

1999: Sigma Xi Award, Hope College

1998: Energy, Resource, and Science Issues Excellence Award, US Government Accountability Office

1998: Washington, D.C. Honors Semester Delegate, Hope College

1997: Mortar Board Membership, Hope College

1997: National Science Foundation REU Grant, Hope College

1997: Political Science Book Award, Hope College

1997: Commendation of Portfolio of Work, Political Science Department, Hope College

1996: MIAA Honor Roll of Athletes, MIAA Athletic Conference, Michigan

1995: Endowment Scholarship, Hope College

OTHER GRANTS AND HONORS

2012: Best Oral Presentation in Basic Research (Runner-up), Society for Freshwater Science

- 2004: Project Assistance Grant (Cave Ecology), US Peace Corps
 2003: Project Assistance Grant (HIV/AIDS Curriculum Development), US Peace Corps
 2003: Infrastructure Development Grant, the Honduran Institute of Anthropology and History
 2000: School of Public and Environmental Affairs Merit-Based Aid Award, Indiana University

Invited Oral Presentations:

KEYNOTE AND PLENARY ADDRESSES (TOTAL =10)

- 2024: The ecosystem-level impacts of aquatic invasive animals in rivers of Mesoamerica. Congreso Panamericano de Especies Acuáticas Invasoras y No-Nativas. Online. (in Spanish; scheduled) 14-18 October 2024 <https://www.icmyl.unam.mx/es/CongresoEspeciesInvasoras>
- 2023: Promoting paradigm shifts to support equitable freshwater resource management in the Anthropocene. VI Congreso Latinoamericano de Macroinvertebrados y Ecosistemas Acuáticos and the IV Simposio Internacional de Aguas Continentales de las Américas, Sonala, Guatemala (in Spanish). June 2023
- 2022: Evidence-based considerations for planning resilient onsite wastewater infrastructure at the parcel, municipal, and state level. Septic Systems & Water Quality Risks Workshop, University of Montana, 9 June 2022.
- 2021: Freshwater conservation in transboundary watersheds [Conservación de agua dulce en cuencas transfronterizas](Presentation in Spanish). El Colegio de la Frontera Sur Semana de Intercambio Académico, Tabasco, México. June 2021.
- 2018: Trade-offs between aging and obsolete infrastructure and declining environmental conditions: the need for interdisciplinary research. Symposium on Interdisciplinary Research: The Importance of Interdisciplinary Research in the Anthropocene, Central Connecticut State University
- 2016: Waste-water stoichiometry and freshwater ecosystem function: linking resource-management decisions with the quality and quantity of basal food resources. Gordon Research Conference: Unifying Ecology Across Scales: Linking the Levels from Physiological to Ecosystem Ecology. Biddeford, Maine
- 2012: Nutrient limitation in the wake of invasion: the potential influence of invader body stoichiometry on nutrient dynamics in novel systems. Gordon Research Conference: Metabolic Ecology in a Changing World. Biddeford, Maine
- 2002: Las ventajas de ecoturismo en las municipalidades, Municipal Governments of Catacamas and Juticalpa, Olancho, Honduras, *in Spanish*
- 2001: Nest predation in the turtle population of Jug Bay Wetland Sanctuary: An investigation of density-dependence and predator identification, Friends of Jug Bay, the Smithsonian Institution, the Smithsonian Environmental Research Center, and the Carnegie Institute, Lothian, Maryland
- 1997: The women's movement in India: An upper caste, Hindu perspective, Hope College Women's Studies Department and the Alumni Board

INVITED TALKS AT UNIVERSITIES AND INSTITUTES (TOTAL =46)

- 2025: Challenges and opportunities in predicting the impacts of anthropogenic subsidies on freshwater systems in urban environments. Centro de Estudios Avanzados de Blanes (CEAB), Blanes, Spain. 24 April 2025.
- 2025: Socioecological implications of changes in subsidy delivery in the Anthropocene. Estación Experimental de Zonas Áridas. Almería, Spain. 9 April 2025
- 2025: Defining watershed boundaries in the Anthropocene: Biogeochemistry, biodiversity, and ecosystem benefits. Program in Ecology Seminar Series. Duke University. Scheduled: 28 January 2025.
- 2025: Backward Design, Transparency, and Active Learning in Large Enrollment Courses, Core Course Design Institute, Faculty Center for the Enhancement of Teaching and Learning, Columbus State

- University, January 11, 2025.
- 2025: Backward Design, Transparency, and Active Learning in Large Enrollment Courses, Core Course Design Institute, Faculty Center for the Enhancement of Teaching and Learning, Columbus State University, January 9, 2025.
- 2024: Backward Design, Transparency, and Active Learning in Large Enrollment Courses, Core Course Design Institute, Faculty Center for the Enhancement of Teaching and Learning, Columbus State University, Aug. 16, 2024.
- 2024: Course Design and Active Learning, Active Learning Summit, University of Georgia, Feb. 16, 2024.
- 2024: Investigaciones sobre los cambios en los ecosistemas acuáticos y las redes tróficas en ambientes antropizados y las cuencas urbanas, Socioenvironmental Seminar Series, El Colegio de La Frontera Sur, San Cristóbal de Las Casas, Chiapas, Mexico, May 16, 2024
- 2023: Ecosystem Ecology in Urbanizing Watersheds. Biology Seminar, Emory University, January 20, 2023
- 2022: Environmental parameters associated with larval mosquito habitats in tropical suburban neighborhoods. Entomology Seminar Series, UGA November 28, 2023
- 2022: Environmental implications of unequal access to wastewater treatment. Environmental Ethics Seminar Series, University of Georgia February 8, 2022.
- 2021: Consumer-driven resource dynamics in the Anthropocene: exploring connections between poop, populations, and resource pulses. Asa Gray Biology Seminar Series, Utica College
- 2021: Consumer-driven resource dynamics in the Anthropocene. Department of Ecology, Evolution, and Organismal Biology, Kennesaw State University
- 2019: Flowing waters in the Anthropocene: Integrating water infrastructure into our understanding of aquatic community structure and ecosystem processes. School of Public and Environmental Affairs Seminar Series, Indiana University
- 2018: The Ecological Implications of Aging and Obsolete Water Infrastructure, Earth and the Environment Seminar Series, Florida International University
- 2018: Consumer-driven nutrient dynamics in the Anthropocene, Seminar Series, Division of Biology, Kansas State University
- 2018: Drowning in Waste: Confronting the Ecological, Economic, and Technological Realities of Aging and Obsolete Water Infrastructure. Jacob Marschak Interdisciplinary Colloquium on Mathematics in the Behavioral Sciences, University of California, Los Angeles
- 2016: The functional role of consumers in ecosystems: the conservation implications of managing organisms to preserve ecosystem function. School of Forestry and Wildlife Sciences, Auburn University
- 2015: Animals and ecosystem function in heterogeneous landscapes of the Anthropocene. Warnell School of Forestry and Natural Resource Management, University of Georgia
- 2015: Consumer-driven nutrient dynamics in a changing world. The Odum School of Ecology, University of Georgia
- 2015: Consumer-driven nutrient dynamics in freshwater ecosystems. The Department of Evolution, Ecology, and Organismal Biology, the Ohio State University
- 2015: Consumer-driven nutrient dynamics in a changing world. The Department of Biology, University of Arkansas
- 2014: Quantifying the functional role of animals in nutrient dynamics in freshwaters. Department of Natural Resources Management, Texas Tech University
- 2014: Biodiversity and ecosystem function in freshwaters: understanding the functional role of species across anthropogenically modified landscapes. Environmental Studies Program and Kansas Biological Station, University of Kansas
- 2013: Animals driving ecosystem function: Understanding the role of aquatic organisms in nutrient dynamics. Lecture Series in the Sciences, Elmira College, Elmira, New York

- 2013: Integrating high school researchers into university research teams. Maine EPSCoR State Conference--"Looking to the Future - Supporting Maine's R&D Capacity through STEM Workforce Development, Technology, and Communicating Science", Orono, Maine
- 2013: Quantifying the functional role of aquatic organisms in biogeochemical processes. School of Agricultural, Forest and Environmental Sciences, Clemson University, Clemson, South Carolina
- 2013: The functional role of aquatic organisms in ecosystem processes across anthropogenically modified landscapes. Department of Watershed Sciences, Utah State University, Logan, Utah
- 2013: Biodiversity, ecosystem function & sustainable resource use in a changing environment. Environmental Change Initiative, Brown University, Providence, Rhode Island
- 2013: Linking biodiversity & ecosystem function: understanding the functional role of species across anthropogenically modified landscapes. School of the Environment, Washington State University, Pullman, Washington
- 2013: Hotspots in forested landscapes: the functional role of vernal pools in nutrient dynamics, Sustainability Solutions Initiative, University of Maine, Orono, Maine
- 2013: Understanding the functional role of aquatic organisms in ecosystem nutrient dynamics. Department of Biology, University of South Dakota, Vermillion, South Dakota
- 2012: Los cambios en los ecosistemas de agua dulce después de la invasión de los peces diablos. El Colegio de la Frontera Sur, San Cristobal de las Casas, Chiapas, Mexico, *in Spanish*
- 2012: The effects of low-trophic position invaders on basal food resources and nutrient dynamics in tropical freshwater systems. Drew University, Madison, New Jersey
- 2012: Functional changes in freshwater ecosystems in response to declining fish populations. Sustainability Science Seminar Series, College of Natural Science, University of Puerto Rico, San Juan, Puerto Rico, *in Spanish*
- 2012: Changing nutrient dynamics in response to species invasion: a case study of armored catfishes in southern Mexico. School of Biology and Ecology, University of Maine, Orono, Maine
- 2012: A plague of pets: the effects of a non-native grazing fish in tropical streams. Department of Wildlife Ecology, University of Maine, Orono, Maine
- 2011: High impacts of low-trophic position invaders: the effects of grazing armored catfishes on freshwater ecosystems in Southern Mexico. Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil
- 2011: Ecosystem-level impacts of non-native fishes: changes in nutrient dynamics in response to invasion. Colby College, Waterville, Maine
- 2011: Linking biodiversity and ecosystem services: understanding the functional role of species across anthropogenically modified landscapes. Sustainability Solutions, University of Maine, Orono, Maine
- 2011: The community and ecosystem-level impacts of armored catfish invasion in southern Mexico. Gettysburg College, Gettysburg, Pennsylvania
- 2011: The community and ecosystem-level impacts of invasion: how an aquarium pet may change the world. The University of the South, Sewanee, Tennessee
- 2009: The ecological and socioeconomic consequences of species invasions. Invited Speaker Series, Denison University, Granville, Ohio.
- 2007: Invasion of the devil fish: potential impacts of an exotic catfish on ecology and biogeochemical processing, Biology Seminar Series, Hope College, Holland, Michigan.
- 2003: El desarrollo de la infraestructura en parques nacionales, Honduran Institute of Anthropology and History, Tegucigalpa, Honduras, *in Spanish*
- 2002: La ecología y geología de cuevas, Guide Association of the Caves of Talgua National Park, Catacamas, Olancho, Honduras, *in Spanish*

INVITED SYMPOSIUM AND CONFERENCE TALKS (TOTAL = 15)

- 2025: Building Stronger Together: Enhancing and Sustaining Decentralized Wastewater Infrastructure for a Resilient Future. Georgia Association of Water Professionals. November 05, 2025.
- 2025: From point sources to nonpoint sources: The biogeochemical implications of aging and obsolete wastewater infrastructure. Annual Meeting for the Society for Freshwater Science. May 2025.
- 2023: Creating and sustaining international collaborations to support tropical ecosystem science. Society of Environmental Geochemistry and Health Americas Seminar Series. February 15, 2023
- 2023: Anthropogenic Subsidies in Rivers of the Anthropocene: Re-thinking wastewater-related socioecological issues in urban watershed ecology and restoration. Symposium on Urbanization and Stream Ecology (SUSE) Seminar Series, January 5, 2023.
- 2021: Engagement of individual stakeholders enhances understanding of community water infrastructure. Georgia Water Resources Conference, Online. Oral Presentation. March 22-23, 2021.
- 2018: Anthropogenic pressures in a large tropical river: the lower Grijalva in southern Mexico. Annual Meeting of the Society for Freshwater Science, Detroit, Michigan, USA. Oral Presentation.
- 2018: Ecological implications of aging and obsolete water infrastructure. Annual Meeting of the Society for Freshwater Science, Detroit, Michigan, USA. Oral Presentation.
- 2017: Food webs, community assemblages, and organismal stoichiometry along environmental gradients in two Mesoamerican river networks. Society for Freshwater Science Annual Meeting. Raleigh, NC. June 4-9, 2017.
- 2017: Integrating service learning into freshwater education: enhancing content knowledge through reflection and service. Society for Freshwater Science Annual Meeting. Raleigh, NC. June 4-9, 2017.
- 2013: Summarizing patterns of consumer-driven nutrient dynamics in freshwater ecosystems. The Society for Freshwater Science, Jacksonville, Florida
- 2012: #Building a framework for predicting the effects of species addition and species loss on nutrient dynamics in freshwater ecosystems. Ecological Society of America (ESA), Portland, Oregon
- 2012: #The effects of species gain and species loss on nutrient storage and cycling in freshwater ecosystems: summarizing patterns across ecosystems. ESA, Portland, Oregon
- 2012: Stoichiometrically unique invaders modify nutrient dynamics in tropical streams. The Society for Freshwater Science.
- 2011: *Aspectos reproductivos de la especie invasora *Pterygoplichthys pardalis* (Siluriformes: Loricariidae) en el río Chacamax. La Red de Investigadores de la Región Usumacinta en México. Villahermosa, Tabasco, México
- 2003: El desarrollo de la infraestructura en parques nacionales, Honduran Institute of Anthropology and History, Tegucigalpa, Honduras
- 2001: Nest predation in the turtle population of Jug Bay Wetland Sanctuary: An investigation of density-dependence and predator identification, Friends of Jug Bay and members of the Smithsonian Institution, Smithsonian Environmental Research Center, and Carnegie Institute, Lothian, Maryland

OUTREACH/EDUCATIONAL PRESENTATIONS:

- 2025: Birds, Reptiles and Dinosaurs, How are they related? Family STEM Night, Barrow Elementary School, January 14, 2025
- 2023: Pursuing careers in environmental science, Athens Community Career Academy, 13 March 2023
- 2022: Communities Upstream. Linger Longer Living Seminars, Reynolds Lake Oconee. 7 November 2022.
- 2020: Armored catfish are awesome. Turtle Pond Talks, Georgia Museum of Natural History
- 2018: Drowning in waste: the ecological implications of failing infrastructure. Reynolds Linger Longer Living Seminar Series at Lake Oconee

Other Oral Presentations (#Co-author presented; *Graduate Advisee Presented; **Graduate Advisee Co-Author; ^Undergraduate Advisee Presented; ^^Undergraduate Advisee Co-Author):

- 2025: Mandatory reporting of wastewater infrastructure failure to support identify social disparities, water resource planning priorities, and threats to water quality, Symposium on Urbanization and Stream Ecology, San Juan Puerto Rico, June, 2025
- 2025: Sociodemographic Disparities and Precipitation Impacts in Patters of Wastewater Infrastructure Failure in Atlanta, GA. Georgia Water Resources Meeting, Athens, GA, March 2025.
- 2024: #Urban soil biogeochemistry driven by age of onsite wastewater treatment systems and vegetation, SSSA International Annual Meeting, San Antonio, Texas. 11 November 2024.
- 2024: #Overcoming pervasive challenges in mapping urban hydrography and landscape heterogeneity. Annual Meeting of the Society for Freshwater Science, Philadelphia, USA. June 2-6, 2024.
- 2024: *Expanding classification of metabolic regimes in urban streams. Annual Meeting of the Society for Freshwater Science, Philadelphia, USA. June 2-6, 2024.
- 2024: #Urbanization alters dissolved organic matter and microbial nutrient acquisition in subtropical urban streams (Georgia, USA). Annual Meeting of the Society for Freshwater Science, Philadelphia, USA. June 2-6, 2024.
- 2024: *The influence of oil palm cultivation on periphyton communities in northern Guatemala streams. Annual Meeting of the Society for Freshwater Science, Philadelphia, USA. June 2-6, 2024.
- 2023: *Investigating Mixed Species Aggregating Behavior in Two Coastal Plain Leuciscids, Southeastern Fishes Council, Chattanooga, Tennessee, October 2023
- 2023: Evidence-based considerations for planning resilient onsite wastewater infrastructure at the parcel, municipal, and state level (co-presenter, Dr. Nandita Gaur; invited to present 50 min. presentation). Onsite Wastewater Mega-Conference, Hampton, Virginia October 23, 2023.
- 2023: #Spatial and temporal variation in quantity and bioavailability of dissolved organic carbon within a metropolitan area. Annual Meeting for the Society for Freshwater Science, Brisbane, Australia, June 3-7, 2023
- 2023:#Global predictions of watershed-scale carbon-processing potential in rivers and riparian zones. Annual Meeting for the Society for Freshwater Science, Brisbane, Australia, June 3-7, 2023
- 2023:#Urbanization alters the quantity and quality of dissolved organic matter in subtropical river networks in metropolitan Atlanta, Georgia, USA. Annual Meeting for the Society for Freshwater Science, Brisbane, Australia, June 3-7, 2023
- 2023:*Evaluation of aquatic macroinvertebrates communities and habitats using molecular and morphological identification in streams at the Savannah River Site. Annual Meeting for the Society for Freshwater Science, Brisbane, Australia, June 3-7, 2023
- 2022: Septic Systems, Biogeochemistry, and Climate Change. Climate and Water Research Slam, UGA. 12 May 2022.
- #2022: Responses of ecosystem metabolism to land use changes and flow regulation in tropical lowland rivers. May 14-20 Joint Aquatic Sciences Meeting, Grand Rapids, Michigan
- #2022: Scales and Drivers of Variability in Dissolved Organic Carbon across Diverse Urban Watersheds. May 14-20 Joint Aquatic Sciences Meeting, Grand Rapids, Michigan
- #2022: Spatial and temporal variation in DOM in urban streams of the eastern United States. May 14-20 Joint Aquatic Sciences Meeting, Grand Rapids, Michigan
- #2022: Seasonal trends in dissolved and particulate organic carbon across urban streams in Boston, USA. May 14-20 Joint Aquatic Sciences Meeting, Grand Rapids, Michigan
- 2022: Assessing the Contribution of Decentralized Waste Infrastructure to Urban Watershed Biogeochemistry. May 14-20 Joint Aquatic Sciences Meeting, Grand Rapids, Michigan
- *2022: Spatial and Temporal Variation of Surface Water Microplastics in a Rural Georgia Watershed. May

- 14-20 Joint Aquatic Sciences Meeting, Grand Rapids, Michigan
- *2022: Evaluation of the Hydro-BID Water Resource Simulation Tool for the Quantification of Water Availability in the Water Supply Basins to Quito, Ecuador. May 14-20 Joint Aquatic Sciences Meeting, Grand Rapids, Michigan
- *2021: Influence of watershed- and reach-scale variables on organic matter processing in an urban watershed (Atlanta, GA). Annual Meeting of the Society for Freshwater Science. 24 May 2021.
- *2021: Assessing relationships between patterns of septic tank maintenance and environmental variables in Athens-Clarke County, GA. Annual Meeting of the Society for Freshwater Science. 24 May 2021.
- 2021: Piled high and getting deeper: imbalances in the demand for septic systems and the ability to treat septage. Annual Meeting of the Society for Freshwater Science. 24 May 2021.
- 2020: Assessing the socio-environmental risk of onsite wastewater treatment systems to inform management decisions. Upper Oconee Science and Policy Summit, 25 Sept 2020.
- 2020: Out of sight, out of mind: human waste and the structure and function of aquatic systems. Madison, WI, Annual Meeting of the Society for Freshwater Science, Jun 2020. *(Abstract accepted, cancelled due to COVID-19)*
- *2020: Effects of stream intermittency on leuciscid and percoid food web dynamics in southwest, GA, USA. Albany, GA, ACF Waters Conference, Apr 2020. *(Abstract accepted, cancelled due to COVID-19)*
- *2020: Effects of stream intermittency on leuciscid and percoid food web dynamics in southwest, GA, USA. Madison, WI, Annual Meeting of the Society for Freshwater Science, Jun 2020. *(Abstract accepted, meeting cancelled due to COVID-19)*
- *2020: Influence of watershed- and reach-scale variables on OM processing in an urban watershed (Atlanta, GA). Madison, WI, ASLO-SFS Joint Summer Meeting, 7 June 2020. *(Abstract accepted, cancelled due to COVID-19)*
- *2020: Microplastic Particles in Savannah, GA, USA. Madison, Annual Meeting of the Society for Freshwater Science, 1 June 2020. *(Abstract accepted, cancelled due to COVID-19)*
- *2020: Spatial and Temporal Patterns of Wastewater-Derived Microplastics. Athens, Annual CURO Symposium, 21 April 2020.
- *2020: Out of sight, out of mind: septic systems and the risk they pose to freshwater ecosystems. Austin, Texas, Symposium on Urbanization and Stream Ecology, 13 February 2020.
- #*2019: Fish Response to Intermittency in the lower Flint River Basin, GA. Presentation for the Robert W. Woodruff Foundation, The Jones Center at Ichauway, Newton, GA, 08 Dec 2019.
- 2019: Anthropogenic food web subsidies in freshwater systems: integrating water infrastructure into our understanding of the river continuum. Salt Lake City, Annual Meeting of the Society for Freshwater Science, 20 May 2019.
- ^2019: Ignorance is bliss: the current state of septic systems in the US and the risks they pose to freshwater systems. Salt Lake City, Annual Meeting Society for Freshwater Science, 20 May 2019.
- 2019: Relative importance of environmental factors and community ecology in ranavirus transmission. Salt Lake City, Annual Meeting of the Society for Freshwater Science, 20 May 2019.
- 2018: Anthropogenic food web subsidies in tropical rivers, Tropical Aquatic Ecosystems in the Anthropocene (AQUATROP), July 23-26, 2018, Quito, Ecuador
- **2018: Oil palm expansion in the tropics: challenges and opportunities in freshwater research, Tropical Aquatic Ecosystems in the Anthropocene (AQUATROP), July 23-26, 2018, Quito, Ecuador
- #2018: Global Patterns and Controls of Organic-matter Decomposition in Streams and Riparian Zones Revealed Through Crowdsourcing. Annual Meeting of the Society for Freshwater Science, Detroit, Michigan, USA. Oral Presentation.
- *2018: Disturbance, Functional Trait Diversity, and Ecosystem Processes in Animal Communities. Presentation at 24th Graduate Student Symposium. Odum School of Ecology. Athens, GA. February 3, 2018.

- *2018: The Watershed Learning Network: A Path Towards Sustainability and Public Engagement in Urban Watersheds. Presentation at 5th Symposium on Integrative Conservation. Athens, GA. January 26, 2018.
- #2017: Exploring Ecological Connectivity among Geographically Isolated Wetlands. Society for Freshwater Science Annual Meeting. Raleigh, NC. June 4-9, 2017.
- *2017: Dissolved organic carbon as a potential vector for metal bioaccumulation in aquatic food webs. Society for Freshwater Science Annual Meeting. Raleigh, NC. June 4-9, 2017.
- 2017: Integrating stoichiometric thinking into socio-ecological systems: relationships among ecology, wastewater infrastructure, and environmental regulations. American Ecological Engineering Society Meeting. Athens, GA. May 24-26, 2017.
- 2017: Decision-making under duress prioritizing management activities to preserve the integrity of fresh waters, promote human health, and protect water supplies. Georgia Water Resources Institute Meeting. Athens, GA. April 19-20, 2017.
- *2016: Fish Assemblages and Aquatic Food-web Structure in Two Mesoamerican River Networks with Contrasting Flow Regimes. Joint Meeting of the American Society of Ichthyologists and Herpetologists, New Orleans, LA. July 10, 2016.
- *2016: The Instars mentoring program: success, challenges, and lessons learned of 5-years of broadening participation in freshwater science. Society for Freshwater Science Annual Meeting, Sacramento, California.
- *2016: Experimental evidence that hemlock decline changes the role of detrital subsidies in freshwater food webs. Society for Freshwater Science Annual Meeting, Sacramento, California.
- 2015: Ephemeral wetlands and municipal decision-making: linking ecology and conservation with economic development through interdisciplinary research in forested landscapes, Ecological Society of America, Baltimore, Maryland
- *2015: Experimental evidence that hemlock decline changes the role of detrital subsidies in freshwater food webs, Ecological Society of America, Baltimore, Maryland
- 2014: Modeling nutrient transport and transformation by vernal pool-breeding amphibians in forested landscapes, The Joint Aquatic Sciences Meeting, Portland, Oregon
- *2014: Global differences in urbanization and stream ecology, The Joint Aquatic Sciences Meeting, Portland, Oregon
- *2013: SFS Instars: a mentoring program to increase diversity in the next generation of freshwater scientists. The Society for Freshwater Science, Jacksonville, Florida
- ^^2011: Non-native grazers in novel environments: Consequences of introduced armored catfish in stream ecosystems. ESA, Austin, Texas
- 2011: Changing nutrient dynamics in response to invasion: the effects of non-native fishes in a tropical stream. The North American Benthological Society, Providence, Rhode Island
- 2011: The impacts of an exotic grazing fish on organic matter and algal biomass in a tropical stream Biogeochemistry & Environmental Biocomplexity Seminar, Cornell University, Ithaca, New York.
- 2010: Exotic armored catfishes (Siluriformes: Loricariidae) alter organic matter and nutrient dynamics in Mesoamerican streams. XIV Congreso de la Sociedad Mesoamericana para la Biología y la Conservación, San Jose, Costa Rica.
- 2010: The net effects of grazing and nutrient remineralization on algal biomass and primary productivity by an exotic grazing fish . Ecological Society of America, Pittsburg, Pennsylvania.
- 2010: The impacts of an exotic grazing fish on organic matter biomass and epilithon stoichiometry in a tropical stream. American Society of Limnology and Oceanography and the North American Benthological Society, Santa Fe, New Mexico.
- 2009: Exotic fishes alter nutrient dynamics in tropical streams. Ecological Society of America, Albuquerque, New Mexico.

2009: Los impactos de especies exóticas en procesos biogeoquímicos: silurios armados introducidos (Siluriformes: Loricariidae) en Chiapas. Southwestern Association of Naturalists, Monterrey, Nuevo León, México.

2007: Don't flush your fish: exotic fish introductions and their potential impacts in Mexico, Lunch Bunch Presentation, Cornell University, Ithaca, New York.

Posters (#co-author presented; **Graduate Advisee/Mentee*; ^*Undergraduate Advisee*):

*2024: Temporal shifts in freshwater systems in the Lake Atitlan Basin. Annual Meeting of the Society for Freshwater Science, Philadelphia, USA. June 2-6, 2024.

*2023: Evaluation of macro invertebrates communities on streams at the savannah River Site, Annual Meeting Southeast Chapter for the Society of Freshwater Science, November 2023, Columbus, GA

*2023: Microbial Community Succession on Macroplastic, UGA Water Science and Policy Poster Symposium, October 2023

*2023: Evaluation of macro invertebrates communities on streams at the savannah River Site, UGA Water Science and Policy Poster Symposium, October 2023

*2022: A Low Resource Method for Populating a Septic System Database for Counties Using Remote Sensing and ArcGIS. American Geophysical Union - Fall Meeting 2022

*2022: Anthropogenic Subsidies Generated by Aging and Obsolete Wastewater Treatment Infrastructure in Watersheds in Atlanta, GA. May 14-20 Joint Aquatic Sciences Meeting, Grand Rapids, Michigan

*2022: Heavy Metal and Radionuclide Contamination on the Savannah River Site, Aiken, SC. May 14-20 Joint Aquatic Sciences Meeting, Grand Rapids, Michigan

*2022: Water Dawgs High School Training Program in Stream Ecology. May 14-20 Joint Aquatic Sciences Meeting, Grand Rapids, Michigan

*2020: Effects of stream intermittency on leuciscid and percid food web dynamics in southwest, GA, USA. Albany, GA, ACF Waters Conference, Apr 2020. (Abstract accepted, meeting cancelled due to COVID-19)

*2020: Effects of stream intermittency on leuciscid and percid food web dynamics in southwest, GA, USA. Madison, WI, Annual Meeting of the Society for Freshwater Science, Jun 2020. (Abstract accepted, meeting cancelled due to COVID-19)

*2020: Influence of watershed- and reach-scale variables on OM processing in an urban watershed (Atlanta, GA). Madison, WI, ASLO-SFS Joint Summer Meeting, 7 June 2020. (Abstract accepted, meeting cancelled due to COVID-19)

^2020: Microplastic Particles in Savannah, GA, USA. Madison, Annual Meeting of the Society for Freshwater Science, 1 June 2020. (Abstract accepted, meeting cancelled due to COVID-19)

^2020: Spatial and Temporal Patterns of Wastewater-Derived Microplastics. Athens, Annual CURO Symposium, 21 April 2020.

2020: Out of sight, out of mind: septic systems and the risk they pose to freshwater ecosystems. Austin, Texas, Symposium on Urbanization and Stream Ecology, 13 February 2020.

^2019: The Watershed Learning Network: engaging communities in freshwater science through community-university partnerships and service learning. Salt Lake City, Annual Meeting of the Society for Freshwater Science, 20 May 2019.

*2019: Investigating potential ranavirus reservoirs (Poster). Society for Integrative and Comparative Biology. Tampa, Florida, 3 January 2019.

*2018: The Watershed Learning Network: A Path Towards Sustainability and Public Engagement in Urban Watersheds. Poster at Georgia Adopt-a-Stream Confluence Conference. Buford, GA. March 23, 2018.

*2017: Carryover effects: Does a stressful larval environment alter metamorph immunocompetence, physiology, and reproductive potential? WAVDL-PALOOZA III. University of Florida, Gainesville, Florida, 31 March 2017.

- 2017: Integrating stoichiometric thinking into socio-ecological systems: Relationships among ecology, wastewater infrastructure, environmental regulations, and human well-being. Conference of the Programme on Ecosystem Change and Society. Oaxaca, Oaxaca, Mexico. November 7-10, 2017.
- *2017: Integrating aquatic ecology in socioecological systems: the case of palm oil plantation in southeast Mexico, Society for Freshwater Science Annual Meeting. Raleigh, NC. June 4-9, 2017.
- 2017: Integrating stoichiometric thinking into socio-ecological systems: relationships among ecology, wastewater infrastructure, and environmental regulations. Symposium on Urbanization and Stream Ecology. Raleigh, NC. May 31-June 3, 2017.
- ^^2014: Patterns in macroinvertebrate community composition in vernal pools in the northeastern United States. The Joint Aquatic Sciences Meeting, Portland, Oregon
- #2014: Ontogenic shifts in the stoichiometry of wood frog bodies and excreta. The Joint Aquatic Sciences Meeting, Portland, Oregon
- #2014: Undergraduate mentoring at SFS and SWS: increasing diversity in the next generation of aquatic scientists. The Joint Aquatic Sciences Meeting, Portland, Oregon
- 2013: *Of pools and people: application of vernal pool amphibian landscape genetics in a socio-environmental coupled-systems model. NE Assoc. of Fish and Wildlife Agencies, Portland, ME.
- 2013: Of pools and people: application of vernal pool amphibian landscape genetics in a socio-environmental coupled-systems model. NE Assoc. of Fish and Wildlife Agencies, Portland, ME.
- 2013: Biogeochemical hotspots within forested landscapes: quantifying the functional role of vernal pools in ecosystem processes. American Geophysical Union, San Francisco, California, USA
- 2012: Sources or sinks: the effects of an invasive fish on nutrient dynamics. Gordon Research Conference: The Metabolic Basis of Ecology, Biddeford, Maine, USA
- 2012: Changing nutrient dynamics in response to invasion. Kavli Frontiers of Science Symposium, Solo, Indonesia
- ^2012: Aquatic macroinvertebrate diversity across a land-use gradient in Palenque National Park, Chiapas, Mexico. The North American Benthological Society, Louisville, Kentucky, USA
- 2011: Democratizing undergraduate research: incorporating inquiry into science classrooms to promote scientific identity. Center for Teaching Excellence, Cornell University, New York, USA
- #2008: Training tomorrow's environmental problem-solvers: an integrative approach to graduate education. ESA, Milwaukee, Wisconsin, USA
- 2008: The Impacts of Armored Catfish (Siluriformes: Loricariidae) on Invaded Freshwater Ecosystems, American Society of Ichthyologists and Herpetologists, Montreal, Quebec, Canada
- 2008: The effects of flooding regime, macroinvertebrates, and tree species on leaf litter decomposition in an Amazonian watershed. North American Benthological Society, Salt Lake City, Utah, USA

TEACHING & MENTORING

CORPORATE TRAINING IN SUSTAINABILITY:

- 2026: (Scheduled) Trainer, Corporate Leadership Program on Sustainability for Boehringer Ingelheim, UGA (2 March 2026)
- 2025: Trainer, Corporate Leadership Program on Sustainability for Boehringer Ingelheim, UGA (2 April 2025)
- 2024: Trainer, Corporate Leadership Program on Sustainability for Boehringer Ingelheim, UGA (3 April 2024)

PRESENTATIONS GIVEN TO SUPPORT PEDAGOGICAL AND PROFESSIONAL DEVELOPMENT FOR UGA POSTDOCS AND FACULTY

- 2025: Transitioning from Academia to Industry, UGA Postdoctoral Association, June 2025 ([Link](#))
- 2025: Careers inside, outside, and next to academia: Insights from an R&D manager, Entrepreneur, and Academic UGA Postdoctoral Association, May 2025
- 2025: Preparing Materials for an Academic Job Search, UGA Postdoctoral Association, May 2025 ([Link](#))

2025: Career Resilience and Life Design for Postdocs, UGA Postdoctoral Association, March 2025 ([Link](#))
 2025: Tailoring Materials for Specific Jobs in Academia, UGA Postdoctoral Association, January 2025 ([Link](#))
 2025: Preparing for an On-Campus Interview, UGA Postdoctoral Association, January 2025 ([Link](#))
 2025: Preparing Materials for an Academic Job Search, UGA Postdoctoral Association, January 2025 ([Link](#))
 2024: Course Design 101, UGA (09 December 2024) [co-directed with Dr. Zeenar Salim]
 2024: Conducted Mid-Semester Formative Evaluation for UGA Faculty Member, UGA (3 October 2024)
 2024: Conducted Mid-Semester Formative Evaluation for UGA Faculty Member, UGA (24 September 2024)
 2024: Conducted Mid-Semester Formative Evaluation for UGA Faculty Member, UGA (17 September 2024)
 2024: Instructor, Jigsaw Discussions to Promote Active Discussions of Peer-Reviewed Literature, MicroTeach Session, Center for Teaching and Learning, University of Georgia, September 9, 2024. ([Link](#))
 2024: Integrating Active Learning into Ecology Courses, Faculty Meeting, Odum School of Ecology, University of Georgia, April 1, 2024.
 2024: Course Design and Active Learning, Active Learning Summit, University of Georgia, Feb. 16, 2024.

Teaching Experience (Post-Graduate):

COURSE INSTRUCTOR (*SUPERVISED GRADUATE STUDENT EDUCATOR)

2025: ECOL 8990 Special Topics in Ecology: Sustainable Writing Practice in STEM Fields
 2024 (spring and fall): ECOL 8990 Special Topics in Ecology: Professional Writing in Science
 2022-present (fall ECOL 4310/6310 Freshwater Ecosystem Ecology and Lab (course and lab re-design)
 2021: ECOL 8990 Special Topics in Ecology: Grant Writing for Graduate Students
 2021: ECOL 8990 Special Topics in Ecology: Ecosystem Ecology (new course development; online)
 2021: ECOL 4010/6010 Ecosystem Ecology (course re-design and transition to online)
 2018-2020 (even year spring semesters): ECOL 3770S Urban Ecology (a service-learning class)
 2016-2024 (fall semesters): ECOL 8000: Topics in Modern Ecology (field component)
 2016-present (fall semesters except 2020): ECOL 1000: Ecological basis of environmental issues
 2016: *Urbanized landscapes and the role of community engagement in sustainable ecosystems, UGA
 2015: Conserving Ecosystem Function in Heterogeneous Landscapes (Graduate Course), UMaine
 2015: Field Course: Animal Adaptations to Changing Climate, UMaine
 2014: Freshwater Ecosystems of Maine, Dept. of Wildlife, Fisheries, & Conservation Biology, UMaine
 2014: Threatened & Endangered Species, Dept. of Wildlife, Fisheries, & Conservation Biology, UMaine
 2012: Readings in Sustainability Science (Graduate Course), Sustainability Solutions Initiative, UMaine

CAMP/WORKSHOP INSTRUCTOR

2023: Co-Organizer, Identifying your Mentoring Network, Workshop at the Southeast Chapter at the Society for Freshwater Science Meeting, Columbus, GA
 2023: Organizer and Lead PI, Water Dawgs High School Training Program in Freshwater Science. June 1-9, 2023.
 2022: Organizer, Professional Development Series for Early Career Researchers Interested in Jobs in Academia (Two panel discussions, one grant writing workshop, and one meeting with NSF program officer), UGA
 2020: Co-Organizer, Microplastics in Freshwater Systems. UGA and the Tennessee Aquarium. 10 September 2020.
 2012: Workshop instructor, Partnerships for Enhanced Engagement in Research (PEER), Solo, Indonesia

NEW COURSE DEVELOPMENT

2025: ECOL 8990 Special Topics in Ecology: Establishing a Sustainable Writing Practice
 2025: ECOL 8990 Special Topics in Ecology: Freshwater Ecosystem Science in the Anthropocene
 2023: ECOL 8990 Special Topics in Ecology: Professional Writing in Science

2022: ECOL 8990 Special Topics in Ecology: Grant Writing for Graduate Students

2021: ECOL 8990: Ecosystem Ecology (Conversion to online)

2021: ECOL 4010/6010: Ecosystem Ecology (Conversion to online)

2018: ECOL 3770S: Urban Ecology

COURSE RE-DESIGN AND PEER LEARNING FACULTY

2024: ECOL 1000: Peer Learning Assistant Faculty

2022: ECOL 1000: Ecological Basis for Environmental Issues (Initiated active learning re-design)

2022: ECOL4310/6310 Freshwater Ecology and Lab

2017: ECOL 1000: Ecological Basis for Environmental Issues

EDUCATIONAL RESOURCE DEVELOPMENT

- Supporting International Scholars Presentation Series
https://drive.google.com/drive/folders/1Ki6ynvdVB83szm4RV7tuQ3_WNj9_oth6?usp=sharing
- Course Design 101
<https://drive.google.com/drive/folders/1zHuYPaqtjr0SKUM9YqYYREtmqz5-H8L1?usp=sharing>
- Preparing Application Materials for an Academic Job Search
https://drive.google.com/drive/folders/1ytWGGPtX6fsU5G_JLT2KBScRBRR00FDY?usp=drive_link
- Tailoring Materials for Specific Jobs in Academia
https://drive.google.com/drive/folders/1GKsWHZAIth1w60Ye5QR1uKZj6FIfwk_P?usp=drive_link
- Preparing for an On-Campus Interview
https://drive.google.com/drive/folders/19jZRYleG7U7iNst1ir0OH86baneH8g_i?usp=drive_link
- Water Dawgs High School Training Materials
https://drive.google.com/drive/folders/1ROun_1IUMhdh7cS11GCzJGasjJ2avd-b?usp=sharing
- Water Dawgs High School Training Materials in Spanish
https://drive.google.com/drive/folders/1h1eRPXaNzi02wo9vVSzR1ZLGCxHN6_Vo?usp=sharing
- Professional Development Series for Careers in Academia
https://drive.google.com/drive/folders/1iWcrtUzz5TDVmy4L564zlu00NDF-7m0K?usp=drive_link

PROFESSIONAL DEVELOPMENT TRAINING IN PEDAGOGY AND MENTORING

2025: Participant, Well-Being By Design, Center for Teaching & Learning, UGA

2024: Participant, Mentoring Other Faculty in the Integration of Active Learning in Courses, Center for Teaching & Learning, UGA

2024: Participant, Conducting a Mid-Semester Formative Evaluation Training, Center for Teaching & Learning, UGA

2022: Participant, Graduate Mentoring Workshop Series, University of Georgia Graduate School

2022: Participant, Active Learning Summer institute, UGA

2021: Participant, Implicit Bias in Undergraduate Education, UGA

2020: Participant, Online Training Program, Academics for Black Survival and Wellness

2019: Participant, Graduate Mentoring Workshop, Center for the Improvement of Mentored Experiences in Research

2018-2020: Fellow, Lilly Teaching Fellows Program, UGA

2017, 2018, 2019: Participant, Mid-Semester Teaching Evaluation Program, Center for Teaching & Learning, UGA

2016-2017: Fellow, Service-Learning Fellows Program, UGA

Postdoctoral Research Mentoring and Administration:

2025-Present: Dr. Yanina Nahum

2025-Present: Dr. Stephen Plont

2024-2025: Leader, Professional Development Programming for University Postdoctoral Researchers, UGA

2024-2025: Director, Future Faculty for Inclusive Research Excellence (FFIRE) Postdoctoral Scholars program, UGA

2024-present: Dr. Irene Sanchez Gonzalez (UGA FFIRE Postdoctoral Research Fellow)

2021-2024: Dr. Shou Chen

Student Research Mentoring:

GRADUATE ADVISING: MAJOR ADVISOR

2025-present: (MS ECOL) Madi McFarland, UGA

2025-present: (MS ECOL) Matthew Thibodeaux, UGA

2025-present: (MS ICAS) Tre'Shur Williams-Carter, UGA

2025-present: (MS ECOL) Devon Locke, UGA

2024-2025: (MS ICAS) Justin Jimawo, UGA

2023-present: (MS ECOL) Natalia Vargas López, UGA

2023-present: (Ph.D Ecology): Andrew Blinn, UGA

2022-2024: (MS Ecology): Crystal Pendergast, UGA

2022-2024: (MS Ecology): Julia Sharapi, UGA

2021-2024: (M.S.ICAS Viviana Bravo Ortiz, UGA (Co-advised by Raven Bier)

2021-2024: (M.S.ICAS.): Fabiola López Ávila, UGA (Co-advised by Raven Bier)

2021-present: (Ph.D Ecology): Christian Swartzbaugh, UGA (Co-advised by Stacey Lance)

2021-present: (Ph.D ICON Ecology): Anuja Mital, UGA (Co-advised by John Maerz)

2020-2021: (M.S. Conservation Ecology): Kyle Connelly, UGA (Co-advised by Seth Wenger)

2020-2022: (M.S. Ecology): Emily Martin, UGA (Co-advised by Steve Golladay)

2020-2021: (M.S. Ecology): E. Madison Monroe, UGA

2020-2022: (M.S. Ecology): Corinne Sweeney, UGA (Co-advised by Stacey Lance)

2017-2024: (Ph.D ICON Ecology): Denzell Cross, UGA

2018-2020: (M.S. Ecology): Christine Fallon, UGA (Co-advised by Steve Golladay)

2015-2017: (M.S. Ecology): Nate Tomczyk, UGA

GRADUATE ADVISING: COMMITTEE MEMBER

2025-present: (Ph.D. Water Science and Technology, University of Girona, Girona, Spain) Nuria Rubio Morales (President of Thesis Review Committee)

2025-present: (Ph.D. Ciencias en Ecología y Desarrollo Sostenible): Paulina Magaña Olive, El Colegio de la Frontera Sur, Villahermosa, Tabasco, Mexico

2025-present: (M.S. Warnell) Clay Counts, UGA

2024-present: (Ph.D. Warnell): Maribel (Maria) Fernandez, UGA

2024-present: (M.S. Warnell): Jacob Mobley, UGA

2024-present: (M.S. Warnell): Nick Austin, UGA

2024-present: (Ph.D. Ciencias en Ecología y Desarrollo Sostenible): Erick Antonio Chacón Hartleven, El Colegio de la Frontera Sur, Villahermosa, Tabasco, Mexico

2024-present: (Ph.D. Marine Sciences): Herbert Leavitt, UGA

2023-present: (Ph.D. Biology): Lizz Parkinson, Oakland University

2023-present: (Ph.D. Environmental Science, College of Public Health): Carter Coleman, UGA

2022-present: (Ph.D. Ecology): Kiersten Nelson, UGA

2021-2023: (M.S. Crop and Soil Sciences): Brandi Carr, UGA

2021-present: (Ph.D. Forestry and Natural Resources): Courtney Scott, UGA

2020-2024: (Ph.D. Entomology): Sophie Racey, UGA

2019-2022: (Ph.D. ICON Ecology): Jeffery Beauvais, UGA

2019-2025: (Ph.D. Biology): Lynda Bradley, Emory University
 2018-2025: (Ph.D. ICON Anthropology): Suneel Kumar, UGA
 2017-2020: (M.S. Warnell): Erik Neff, SREL/UGA
 2016-2021: (Ph.D. Ecology): Greg Jacobs, UGA
 2019-2020: (M.A. Science Education): Kodiak Sauer, UGA
 2017-2019: (M.S.C.E.S.D.): Megan Hopson, UGA
 2016-2019: (Ph.D. ICON Geography): Rachel Gauer Will, UGA
 2015-2018: (M.S. Ecology): Austin Coleman, SREL/UGA
 2015-2016: (M.S. Ecology): Laura Early, UGA
 2013-2017: (Ph.D. Biology): Eric K. Moody, Arizona State University
 2013-2014: (M. Wildlife Conservation): Rachel Dunham, University of Maine
 2008-2010: (M.S. Recursos Naturales y Desarrollo Rural): Govinda-Das Hugo Liénart De Wolf El Colegio de la Frontera Sur, San Cristóbal de las Casas, México

GRANTS AND OTHER ACCOLADES AWARDED TO GRADUATE MENTEES & POSTDOCTORAL RESEARCHERS

2025: Butler Fellowship, Odum School of Ecology, Tre'Shur Williams Carter
 2025: Spencer Fellowship, Odum School of Ecology, Devon Locke
 2025: Finalist, Smith Conservation Fellowship, Dr. Irene Sánchez González
 2025: NSF/SFS Emerge Fellowship, Justin Jimawo
 2025: NSF/SFS Emerge Fellowship, Natalia Vargas López
 2024: Three Minute Thesis Finalist, UGA (and People's Choice Winner), Viviana Bravo Ortiz
 2024: Spencer Fellowship, Odum School of Ecology, Justin Jimawo
 2024: Headwaters Leadership Academy, Society for Freshwater Science, Dr. Irene Sánchez González
 2024: Headwaters Leadership Academy, Society for Freshwater Science, Denzell Cross
 2024: John Spencer Small Grant Award, Christian Swartzbaugh
 2024: John Spencer Small Grant Award, Anuja Mital
 2024: NSF/SFS Emerge Fellowship, Dr. Irene Sánchez González
 2024: NSF/SFS Emerge Fellowship, Natalia Vargas López
 2024: Graduate School Travel Grant, Natalia Vargas López
 2024: John Spencer Small Grant Award, Justin Jimawo
 2023: NSF GRFP, Julia Sharapi
 2023: ICON Travel Grant, UGA, Anuja Mital
 2023: Organization for Tropical Studies Scholarship, Natalia Vargas López
 2023: 2nd Place, Best Poster Presentation, VI Congreso Latinoamericano de Macroinvertebrados y Ecosistemas Acuáticos y el IV Simposio Internacional de las Aguas Continentales de las Américas, Natalia Vargas López
 2023: Odum School Graduate Diversity Award, Viviana Bravo Ortiz
 2023: Odum School Graduate Diversity Award, Fabiola López Ávila
 2023: John Spencer Small Grant Award, Fabiola López Ávila
 2023: Hispanic Scholarship Fund, Fabiola López Ávila
 2023: National Geographic Freshwater Conservation Science & Innovation Internship, Julia Sharapi
 2023, 2024, 2025: Center for Applied Isotope Studies Research Assistantship, Natalia Vargas López
 2023, 2024: Center for Applied Isotope Studies Research Assistantship, Fabiola López Ávila
 2023: NSF/SFS Emerge Fellowship, Viviana Bravo Ortiz
 2022: Center for Applied Isotope Studies Research Assistantship, Julia Sharapi
 2022: Center for Applied Isotope Studies Research Assistantship, Denzell Cross
 2022: Smithsonian Women's Committee Diversity Internship, Anuja Mital
 2022: Georgia Sea Grant Fellowship, Madison Monroe

2022: National Geographic Explorer Grant, Anuja Mital
2022: Fish and Wildlife Service, Directorate Fellowship Emily Martin
2022: NSF/SFS Emerge Fellowship, Denzell Cross
2022: NSF/SFS Emerge Fellowship, Viviana Bravo Ortiz
2022: NSF/SFS Emerge Fellowship, Fabiola López Ávila
2022: NSF/SFS Emerge Fellowship, Shuo Chen
2021: ESA 2022 Graduate Student Policy Award, Corinne Sweeney
2021: Spencer Fellowship, Odum School of Ecology, Fabiola López Ávila
2021: UGA Graduate School Master's Fellows Award, Fabiola López Ávila
2021: Emerge Fellowship, Society for Freshwater Science, Fabiola López Ávila
2021: Emerge Fellowship, Society for Freshwater Science, Denzell Cross
2021: Endowment Award, Society for Freshwater Science, Kyle Connelly
2021: Endowment Award, Society for Freshwater Science, Denzell Cross
2021: Presidential Management Fellow, U.S. Office of Personnel Management, K. Connelly
2020: Directorate Fellowship, US Fish and Wildlife Service, Christine Fallon
2019: Spencer Small Grant, River Basin Center, Christine Fallon
2018: Ford Predoctoral Fellowship, Ford Foundation, Denzell Cross
2017: Best MS Student Oral Presentation, Graduate Student Symposium, Nate Tomczyk

POST-BACCALAUREATE RESEARCH MENTORING

2021: Crystal Pendergast, University of Georgia (NSF Reps Fellowship)

UNDERGRADUATE RESEARCH AND INTERNSHIP MENTORING

2025: Research in Ecology: Haven Hardy, University of Georgia (Engineering Student)
2024: Science Communication Internship: Julia Endelson, University of Georgia
2024: Research in Ecology: Scott Messick, University of Georgia
2023: Research in Ecology: Luke Krohn, University of Georgia
2023: Research in Ecology: Micah Booker, University of Georgia
2021-22: Research in Ecology: Molly Mulhern, University of Georgia
2021-22: Research in Ecology: Isaac Wood, University of Georgia
2020: Research Internship in Ecology: Diane Klement, University of Georgia
2019-2020: Research Internship in Ecology: Kayla Wagner, University of Georgia
2019: Population Biology of Infectious Diseases REU: Lily Tanner, University of Georgia
2019-2020: Research Internship in Ecology: Maddie Monroe, University of Georgia
2018-2019: Research Internship in Ecology: Emma Dickinson, University of Georgia
2018-2019: Science Communication Internship: Becca Parsons, University of Georgia
2018: Science Communication Internship: Anderson Felt, University of Georgia
2018: Lab Placement in Ecology: Zion Eberhart, Peach State LSAMP University of Georgia
2018: Population Biology of Infectious Diseases REU: Jasarah Williamson, University of Georgia
2017: Independent Study Research: James Parker, University of Georgia
2017: Population Biology of Infectious Diseases REU: Amber Matha, University of Georgia
2015-2016: Independent Study Research Mentor: E. Reed Solly, University of Georgia
2013-2015: Independent Study Research Mentor: Nate Tomczyk, University of Maine
2013: Independent Study Research Mentor: Randi Jackson, University of Maine
2012-2013: Honors Thesis Committee, Sarah Watts, University of Maine
2010-2012: Independent Study Research Mentor, Gabriel Ng, Cornell University
2010: Honors Thesis Research Mentor, Sebastian Heilpern, Cornell University
2009: Independent Study Research Mentor: Sebastian Heilpern

GRANTS AND OTHER ACCOLADES AWARDED TO UNDERGRADUATE MENTEES

2021: Isaac Wood, Center for Undergraduate Research Opportunities Research Award, UGA
2019: Maddie Monroe^^, Center for Undergraduate Research Opportunities Honors Course, UGA
2019: Becca Parsons^^, Center for Undergraduate Research Opportunities Honors Course, UGA
2016: E. Reed Solly, Center for Undergraduate Research Opportunities Honors Course, UGA
2014-2015: Randi Jackson, ESA SEEDS Leadership Workshop Fellow
2014: Nathan Tomczyk, Attendee Council on Undergraduate Research's Research Experiences for Undergraduates Symposium, Washington, D.C. (Oct. 2014)
2013: Randi Jackson, Society of Wetland Scientists Mentoring and Travel Grant
2013: Nathan Tomczyk, Center for Undergraduate Research Fellowships, University of Maine
2012: Gabriel Ng, Instars Diversity Fellowship, Society for Freshwater Science
2009: Sebastian Heilpern, Morley Student Research Award, Cornell University
2008: Sebastian Heilpern, Dextra Undergraduate Research Fund, Cornell University
2008: Sebastian Heilpern, Latin American Studies Program Travel Grant, Cornell University

ADDITIONAL UNDERGRADUATE STUDENT RESEARCH SUPERVISION

2023: Research in Ecology: Carmel Serban, University of Georgia
2023-2024: Luke Hudson Krohn, University of Georgia
2023: Micah Booker, University of Georgia
2022-present: Madi McFarland
2021-2023: Cody Whitlock, Annual and summer research, University of Georgia
2018: Maddie Monroe, Summer field research, University of Georgia
2014: Adam Sheppard, Summer field research, University of Maine
2013: Avery Cole, Summer field research, University of Maine
2012: Avery Cole, Summer field research, University of Maine
2012: Phillip Benoit, Summer field research, University of Maine
2012: Eleanor Durso, Summer field research, University of Maine
2012: Gregory Innes, Summer field research, University of Maine
2011: Shauntle Barley, BIOG2990-Undergraduate Research in Biology, Cornell University
2010-2011: Esther Cynn, BIOG2990-Undergraduate Research in Biology, Cornell University
2010-2011: Andrea Fortman, BIOG2990-Undergraduate Research in Biology, Cornell University
2009: Gabriel Ng, BIOG2990-Undergraduate Research in Biology, Cornell University
2009: Ashley Brown, BIOG2990-Undergraduate Research in Biology, Cornell University

HIGH SCHOOL STUDENT RESEARCH SUPERVISION (*INITIATING PILOT PROGRAM)

2018: Madalyn Kuhn, AP Capstone (Microplastics in freshwater systems), Oconee County High School
2014: Steven Holmes, Wabanaki Center Internship for Native American Students, University of Maine*
2013: Leah Clement, Orono High School Research Program, University of Maine
2013: Diana Tyutyunnyk, Orono High School Research Program, University of Maine
2012-2013: Leah Clement, Research Internship in Ecology & Sustainability Science, University of Maine
2012: Leah Clement, Orono High School Research Program, University of Maine (summer months)
2012: Chris Introne, Orono High School Research Program, University of Maine (summer months)

Service & Volunteer Activities:EDITORSHIPS OR EDITORIAL BOARD MEMBERSHIPS FOR JOURNALS OR OTHER LEARNED PUBLICATIONS

2021-PRESENT: Editor, Freshwater Science
2015-PRESENT: Editorial Board Member, Freshwater Biology

SUPPORTING HUMAN DIVERSITY IN ECOLOGY & FRESHWATER SCIENCE RESEARCH

2025: Mentor, Headwaters Leadership Academy, Society for Freshwater Science

(<https://freshwater-science.org/headwaters-leadership-academy/>)

2023: Reviewer, Instars and Emerge Fellowship Programs, Society for Freshwater Science

2022: Co-Organizer and UGA Representative, Development of NSF PROGRESS Hub in Atlanta

(<https://progress.colostate.edu/>)

2022-2024: Board Member, Diversity Joint Venture (<https://diversityinconservationjobs.org/>)

2022: Piloting new mentoring software, Justice, Equity, Diversity, & Inclusion Mentoring, SFS

2021: Organizer, Justice, Equity, Diversity, & Inclusion Mentoring Workshop, SFS Annual Meeting

2020: Champion Faculty Member (UGA), National Alliance for Inclusive & Diverse STEM Faculty

2020: Faculty Focus Group Participant, UGA Diversity and Excellence Committee

2017: Awarded New Approaches to Diversity Grant, University of Georgia

2016-2019: Founder and chair of Odum School Diversity Committee

2014: Initiated Pilot Program, Wabanaki Center Internship in Environmental Science for Native American Students, University of Maine

2013-2023: Member, Education and Diversity Committee, SFS

2013-2019: Advisory Panel Member, Instars Diversity Program, SFS

2012, 2015: Mentor, Strategies for Ecology Education, Diversity and Sustainability (SEEDS), ESA

2011-2012: New Generation Committee Member, ESA

2011-2012: Instars Program Mentor, SFS

INTERNATIONAL PROGRAMS

2020: Abstract Organization Committee and Keynote Panel Moderator, Summer of Science, Society for Freshwater Science, June 9-12, Online due to COVID-19

2017-2018: Scientific Advisory Committee Member, Tropical Aquatic Ecosystems in the Anthropocene (AQUATROP), July 23-26, 2018, Quito, Ecuador.

2017: External Thesis Examiner, University of Cape Town

2016: Guest lecturer, Manejo de Cuencas, El Colegio de la Frontera Sur, Villahermosa, México

2016: Mentor, Ms. Alejandra Lázaro, Consejo Nacional de Ciencia y Tecnología (CONACYT) Fellowship (international laboratory exchange fellowship)

2015: Co-Organizer, 1st Conference on Biological Stoichiometry, Trent University

2015: Guest lecturer, Ecología de Peces Dulceacuícola, El Colegio de la Frontera Sur, San Cristóbal de las Casas, Chiapas, México

2012: Guest lecturer, Ecologia de Água Doce, Universidade do Estado do Rio de Janeiro, Brazil

2012: Workshop instructor, Grant Development and Submission, Partnerships for Enhanced Engagement in Research (PEER), US National Academies of Science, Solo, Indonesia

LOCAL COMMUNITY SERVICES AND RELATIONS SINCE COMING TO UGA

2025: Organizer, Decentralized Water Infrastructure Concerns in Georgia, Community Engagement Workshop

2024: Rural Engagement Workshop Participant, University of Georgia

2023: Presentation, Pursuing Careers in Environmental Science, Athens Community Career Academy

2022: Presentation, Communities Upstream. Reynolds Linger Longer Living Seminar Series at Lake Oconee

2020: Presentation, Armored catfish are awesome. Turtle Pond Talks, Georgia Museum of Natural History

2018-2020: Septic Intern Manager, Athens-Clarke County

2018: Presentation, Drowning in waste: the ecological implications of failing infrastructure. Reynolds Linger Longer Living Seminar Series at Lake Oconee

2018: Organizer, Collaborative Workshop on Septic Planning (UGA researchers and staff from Athens-Clarke County and the North Atlanta Metro Region)

2018: Student Volunteer Organizer, Athens Clarke County Water Festival

2016-2018: Organizer, Collaboration between UGA, UOWN, and Athens Clarke County on the impacts of septic systems in the Oconee Watershed

SERVICE TO GOVERNMENTAL AND NONGOVERNMENTAL AGENCIES SINCE COMING TO UGA

2025: Advisory Panel Member, Input on Hurricane Helene Resiliency Funding Program (Decentralized Water Infrastructure Investment). Convened by Kirkwood and Kelly at the behest of the state of Georgia.

2024-2025: Member, Biodiversity and Climate Change Assessment Review Committee, US National Academies of Sciences, Engineering, and Medicine (<https://www.nationalacademies.org/our-work/review-of-draft-chapters-of-the-national-biodiversity-and-climate-change-assessment>)

2021: Presenter, The ecological implications of aging and obsolete onsite waste treatment systems. Office of Water, USEPA. (May 2021)

2021: Presenter, Virtual Workshop on Resilient Infrastructure. Sponsored by Florida International University and American Institute of Biological Sciences for national agency appointees of the Biden Administration and Congressional leadership. (April 2021)

2018: Organizing Committee Member, Upper Oconee Science and Policy Summit

2018: Organizer, Undergraduate Research Opportunities in partnership with the Upper Oconee Watershed Network (UOWN)

2017: Co-developer, the Watershed Learning Network, EcoAction/American Rivers

SERVICE TO PROFESSIONAL SOCIETIES, ORGANIZATIONS OR AGENCIES (Conference organization is italicized.)

2025: *Organizer, Annual Meeting Society for Freshwater Science (SFS), Southeast Chapter (Athens, March 25-26, 2025)*

2024: Co-Organizer, Special Organized Session, Annual Meeting for the Society for Freshwater Science

2023: *Co-Organizer, Annual Meeting Society for Freshwater Science (SFS), Southeast Chapter*

2023: Co-Organizer, Special Organized Session, Georgia Water Resources Meeting

2022: Co-founder, Society for Freshwater Science (SFS), Southeast Chapter

2022: Co-Organizer, Special Organized Session, Joint Aquatic Sciences Meeting, Grand Rapids, Michigan

2021: Lead Organizer, Special Oral Session— The social and ecological implications of wastewater in freshwater systems, SFS

2021: Co-Organizer, Workshop on Mentoring Students from Underrepresented Backgrounds, Annual Meeting of SFS

2020-2023: JEDI Task Force Subcommittee Member, SFS

2020: Programming Team for Summer of Science Society for Freshwater Science (SFS)

2019-2020: *Annual Meeting Scientific Planning Committee, Association for the Sciences of Limnology and Oceanography (ASLO)/SFS (joint meeting)*

2019-2020: The ecology of sewage, Special Session, Joint meeting of ASLO/SFS, 7-12 June, 2020, Madison, WI (Cancelled due to COVID-19)

2019-2020: *Microplastics in the Environment, Online, Sept. 14, 2020, River Basin Center and the Tennessee Aquarium*

2016-2024: Odum Representative, Association of Ecosystem Research Centers (AERC)

2016-2018: Sponsorship and Development Committee, SFS

2016-2017: Lead Organizer, Special Sessions, Annual Meeting of SFS

2015: *Co-Organizer, 1st Conference on Biological Stoichiometry*

2015: Organizer, Organized Oral Session—Solving complex problems: Socio-ecological research at the frontier of global change, Ecological Society of America (ESA)

2015: Mentor, Strategies for Ecology Education, Diversity and Sustainability (SEEDS), ESA

2014: Lead Organizer and Moderator, Special Oral Session--The future of aquatic science: an educational session for undergraduates, Aquatic Sciences Meeting, Portland, Oregon

2014: *Co-Organizer, 3rd Symposium on Urbanization & Stream Ecology*

2014-2017: Elections and Place Committee, SFS

2014-present: Education and Diversity Committee, SFS

2013-2019: Advisory Panel Member, Instars Diversity Program, SFS

2013: Lead Organizer, Special Oral Session—More than just P in a bag: using consumer-driven nutrient dynamics to understand ecosystem processes, SFS

2013: Lead Organizer and Moderator, Special Oral Session—The future of freshwater science: an educational session for undergraduates, SFS

2012: Organizer and Moderator, Organized Oral Session— Species addition and loss: effects on ecosystem Processes in freshwater ecosystems, ESA

2012: Organizer & Moderator, Special Oral Session— Species addition and loss: effects on ecosystem processes, SFS

2012: Mentor, SEEDS, ESA

2011-2012: New Generation Committee Member, ESA

2011-2012: Instars Program Mentor, SFS

2011-2012: Grant Manager, Researchers at Primarily Undergraduate Institutions, ESA

2010-2011: Student Liaison, Researchers at Primarily Undergraduate Institutions, ESA

2009-2010: Student-Mentor Mixer Committee, SFS/ASLO Joint Meeting

2008-2009: Graduate Student Merchandizing Representative, SFS Annual Meeting

ELECTED POSITIONS

2022-2025: *Secretary/Treasurer, Society for Freshwater Science, Southeast Chapter*

2017-2024: *Member-at-Large, AERC*

2008-2011: *Seminar Committee, BEB, Graduate Student Association*

2007: *President, Biogeochemistry & Environmental Biocomplexity (BEB), Graduate Student Association*

2006: *Event Planner, BEB, Graduate Student Association*

1995-1998: Tri-Beta: The National Biological Fraternity, Hope College

1995-1998: Pi Sigma Alpha: The Political Science National Honors Society, Hope College

1996-1998: Student Congress Representative, Hope College

AD HOC MANUSCRIPT REVIEWS

Aquatic Invasions; Biological Invasions; Canadian Journal of Fisheries and Aquatic Sciences; Conservation, Ecology, & Management of Worldwide Catfish Populations & Habitats, American Fisheries Society; Earth's Future; Ecology; Ecology of Freshwater Fishes; Ecology Letters; Ecosphere; Ecosystems; Freshwater Biology; Freshwater Science; Frontiers in Ecology and the Environment; Functional Ecology; Global Change Biology; Hydrobiologia; Journal of Freshwater Ecology; Limnology and Oceanography; Limnology and Oceanography Letters; Marine and Freshwater Research; Oecologia; Proceedings of the Royal Society B

GRANT REVIEW PANEL MEMBER

2015, 2016, 2023, 2024: National Science Foundation (NSF)

2012, 2015, 2016: NSF/USAID: Partnerships for Enhanced Engagement in Research

AD HOC GRANT REVIEWS & SERVICE TO PROFESSION

2025: External Reviewer for Thesis or Proposal, Universitat de Girona

2025: External Reviewer for Thesis or Proposal, Austrian Academy of Sciences

2024: Promotion or Tenure Evaluation, Indiana University

2024: Promotion or Tenure Evaluation, Wichita State University

2019: Consejo Nacional de Ciencia y Tecnología, Mexico, Convocatoria Ciencia de Frontera

2013, 2016: National Geographic Society

2011, 2014, 2019, 2020, 2022, 2024: NSF

SERVICE ON DEPARTMENTAL, COLLEGE, OR UNIVERSITY COMMITTEES UGA

2025-present: Committee Member, Graduate Program Committee, Odum School of Ecology
2025: Search Committee Member, Assistant Professors of Ecosystem Ecology (Four positions), Odum School of Ecology
2025: Search Committee Member, Translational Academic Pathologist, UGA School of Medicine
2025: Search Committee Member, Translational Biomedical Researcher, UGA School of Medicine
2025-present: Committee Member, School of Medicine Research Advisory Executive Committee, UGA School of Medicine
2025: Guest Speaker, Lily Fellows Program, UGA
2025-present: Faculty Mentor, Lily Fellows Program, UGA
2025-present: Program Review and Assessment Committee, UGA
2025: Faculty Interview Committee for Coordinator of Faculty & Graduate Student Development Position, Center for Teaching and Learning, UGA
2024-2025: Active Learning Faculty Mentor, UGA
2024: Research Presentation to Odum's Advisory Board, 20 September 2024, UGA Botanical Garden
2024, 2025: Russell Award Selection Committee, University of Georgia
2023: Search Committee Member, Assistant Professor, Evolutionary Ecology, Odum School of Ecology
2023-2024: Service-Learning Faculty Mentor, University of Georgia
2023-2024: Faculty Teaching Mentor, Odum School of Ecology
2023: Promotion Review Committee, Division of Academic Enhancement
2023-present: Associate Director, River Basin Center
2022-2023: Dean's Advisory Committee, Odum School of Ecology
2022-2023: Seminar Organizing Committee Chair, River Basin Center
2022: Search Committee Member, Open Rank Faculty in Disease Ecology, Odum School of Ecology
2022: Search Committee Member, Business Operations Manager, Odum School of Ecology
2022: Search Committee Member, Assistant Professor of Community Ecology, Odum School of Ecology
2022: Search Committee Member, Administrative Financial Director, Odum School of Ecology
2022: Organizer, Professional Development Series for Early Career Researchers Interested in Jobs in Academia (Two panel discussions, one grant writing workshop, and one meeting with NSF program officer), UGA
2022: Organizing Committee Member, River Basin Center Policy Celebration
2022: Co-Organizer, Celebration for the Career of Dr. Alan Covich, Join Aquatic Sciences Meeting, Grand Rapids, MI
2021: Odum School Representative, Director Search for the Center for Applied Isotope Studies
2021: Search Committee, Environmental Policy, Odum School of Ecology
2020: Champion Faculty Member (UGA), National Alliance for Inclusive & Diverse STEM Faculty
2020: Faculty Focus Group Participant, UGA Diversity and Excellence Committee
2020-present: Faculty Mentor, Savannah River Ecology Laboratory
2020-2022: Advisory Board Member, River Basin Center
2020-2021: Director Search Committee, Center for Integrative Conservation Research
2019-2022: Seminar Committee, Odum School of Ecology
2019: Academic Review Panel, Odum School of Ecology
2019: Panelist, Gender, the Body, and Fieldwork Across Disciplines, UGA
2018-2019: Search Committee, Lecturer, Odum School of Ecology
2018: Search Committee, Instructional Faculty, Odum School of Ecology
2018: Undergraduate Education Committee, Savannah River Ecology Laboratory
2018: Search Committee Member, Academic Professional Search, Odum School of Ecology

2018-2019: Member, Panel of Diversity Representatives, UGA
2017-2025: Graduate Admissions Committee, Program in Integrative Conservation
2017-2018: Search Committee, Organismal Ecology, Odum School of Ecology
2017-2018: Odum 50:10 Celebration, Diversity Panel Organizer, Odum School of Ecology
2017-2018: Member, Facilities Committee, Odum School of Ecology
2016-2019: Founder and Head, Diversity Committee, Odum School of Ecology
2016-2022: Member, Executive Committee Center for Integrative Conservation Research
2016-2017: Member, Campus Relations Committee, Savannah River Ecology Laboratory
2016-2017: Member, Building Committee for the Science Learning Center, UGA
2016: Member, Science Learning Center Building Committee, UGA
2015-2018: Member, Undergraduate Curriculum Committee, Odum School of Ecology

SERVICE TO STUDENT GROUPS AND ORGANIZATIONS UGA

2025: Organizer and presenter, Workshop Series on Pursuing Jobs in Academia, UGA Postdoctoral Community

2024: Co-organizer and presenter, Course Design Workshop, UGA Postdoctoral Community
2024: Panelist, Course Design & Active Learning, Active Learning Summit, UGA
2023: Panelist, Graduate Safety in the Field, ICON/CICR
2022: Organizer, Professional Development Series for Early Career Researchers Interested in Jobs in Academia (Two panel discussions, one grant writing workshop, and one meeting with NSF program officer), UGA
2020: Organizer, Careers Outside of Academia Panel Discussions, Odum School of Ecology
2018-2019: Faculty Advisor, EcoReach
2018-2019: Faculty Advisor, Strategies for Ecology Education, Diversity & Sustainability
2018-2019: New Approaches to Graduate Recruitment, UGA
2016-2023: Judge Graduate Student Symposium, Odum School of Ecology
2016-2019: Member, Student Fees Committee, Odum School of Ecology
2016, 2017: Judge, Symposium for Integrative Conservation
2015: Panelist, WiSci Career Symposium

LANGUAGES

English: native speaker

Spanish: C1 (advanced) rating on the MCER scale (evaluated July 2024)

RANDOM

1999: Appalachian Trail Thru-Hiker