

## CURRICULUM VITAE

### Krista A. Capps

Odum School of Ecology & Savannah River Ecology Laboratory  
140 E. Green St.  
The University of Georgia  
Athens, GA 30602-2202 USA  
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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-present: Director, [FFIRE](#) Postdoctoral Scholars Program, U. Georgia

2024-2025: Office of Research Faculty Fellow, U. Georgia

2024-2025: Biodiversity and Climate Change Assessment Review Committee, US National Academies of Sciences, Engineering, and Medicine

2024-2025: Active Learning Faculty Mentor, U. Georgia

2023-present: 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-present: 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 Member, 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:

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

**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. Castillo, M., A. Ulseth, and **K. Capps**°. Ecosystem metabolism in tropical non-wadeable rivers of southern Mexico. In review *Limnology and Oceanography*.
3. \*Cross, D. et al. Influence of urbanization on organic-matter processing and nutrient immobilization in wadable streams (southeastern USA). In review *Freshwater Science*.
4. Hale, R., **K. Capps**, E. Cook, and R. Scarlett. Legacies shape urban water hazards, risk, and future opportunities for climate adaptation. In review *Nature Water*.
5. Hale, R. et al. A macrosystems approach for characterizing heterogeneity of urban watershed biogeochemistry. In Review *Limnology and Oceanography*.
6. Pease, A., G. Jacobs, M. Mendoza-Carranza, and **K. Capps**°. Migratory snook and tarpon connect food webs from coastal wetlands to tropical rainforests in the Usumacinta River, Mexico. In review *Fisheries Management and Ecology*.
- a. \*Sharapi, J., N. Gaur, J. Bateman-McDonald, K. Connelly, and **K. Capps**°. Assessing environmental complexities of decentralized wastewater infrastructure using machine learning. In review *Environmental Science and Technology*.
7. \*Sweeney et al. Exploring patterns in microplastic pollution in a larger rural watershed. In review, *Journal of Environmental Quality*.
8. Wenger et al. Reorienting Urban Stream Management to Focus on Equitable Delivery of Benefits. In review. *Plos Water*.

**PUBLISHED JOURNAL ARTICLES:**

1. \*Lopez-Avila, F. **K. Capps**, and R. Bier. 2025. Surface texture of macroplastic pollution in streams alters the physical structure and diversity of biofilm communities. *In press*. *Environmental Microbiology Reports*.
2. \*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.
3. \*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.

4. Pease, A. A., Jacobs, G. R., Mendoza-Carranza, M., Rodiles-Hernández, R., Wenger, S. J., & **Capps, K. A.** (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.
5. 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.
6. 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.
7. 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.
8. \*Connelly, K., Wenger, S., Gaur, N., McDonald, J., Occhipinti, M., & **Capps, K.** 2023. Assessing relationships between onsite wastewater treatment system maintenance patterns and system-level variables. *Science of The Total Environment*, 161851.
9. 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.
10. Damashek, J., Westrich, J. R., McDonald, J. M. B., Teachey, M. E., Jackson, C. R., Frye, J. G., ... & 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, 118853.
11. Costello, D.M., S.D. Tiegs, L. Boyero, C. Canhoto, **K. A. Capps**, M. Danger, P.C. Frost et al. "Global Patterns and Controls of Nutrient Immobilization on Decomposing Cellulose in Riverine Ecosystems." *Global Biogeochemical Cycles*: e2021GB007163. <https://doi.org/10.1029/2021GB007163>
12. \*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>
13. **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>
14. **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.
15. \*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.
16. \*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>
17. **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.
18. Rhodes, O. G., Jr. et al. 2020. Integration of ecosystem science into radioecology: a consensus perspective. *Science of the Total Environment* 740: 140031
19. 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.
20. **#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>
21. **#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.
22. 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.
23. 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.
  24. Tiegs, S. et al. 2019. Global patterns and drivers of ecosystem functioning in rivers and riparian zones. *Science advances*, 5(1), eaav0486.
  25. 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.
  26. Olivera-Cunha, P.^, **K. A. Capps**, V. Neres-Lima, C. Lourenco-Amorim, F. Tromboni, T.P. Moulton, E. Zandoná. 2018. Effects of incubation conditions on nutrient mineralisation rates in fish and shrimp. *Freshwater Biology* 63: 1107-1117.
  27. 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.
  28. 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 Ambleminae (Bivalvia, Unionidae). *Zoologica Scripta*: 48: 106-117.
  29. 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.
  30. 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.
  31. **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.
  32. Atkinson, C.L., **K. A. Capps**, A. Rugenski, M. Vanni. 2017. Consumer-driven nutrient dynamics in fresh water ecosystems: from individuals to ecosystems. *Biological Reviews* 92: 2003–2023.
  33. 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
  34. 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.
  35. **#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.
  36. **#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.
  37. **#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.
  38. **#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. (Submitted as part of Woodstoich <http://woodstoich.org/>).
  39. **#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.
  40. **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.
  41. **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.
  42. **Capps, K.A.**, C.L. Atkinson, A. Rugenski. 2015. Consumer-driven nutrient dynamics in freshwaters: an introduction. *Freshwater Biology* 60: 439–442.
  43. **#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.
  44. **#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.
  45. 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
  46. **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.
47. **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
  48. 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.
  49. **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.
  50. **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.
  51. **Capps, K. A.**, L. G. Nico, M. Mendoza Carranza, W. Areválo-Frías A. J. Ropicki, S. A. Heilpern<sup>^</sup>, 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.
  52. **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.
  53. **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.
  54. **Capps, K. A.**, M. A. Davison, Y. A. Kapetanakis, 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.
  55. 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.
  56. **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.
  57. 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.
  58. 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:

- 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/P13UZYZF>.

**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:**IN REVIEW OR PLANNED SUBMISSION

1. Fulbright Scholars, Columbia (in review)
2. NSF RCN—Planned submission January 2025
3. NSF Populations and Communities—May 2025
4. NSF Ecosystems—in development
5. Burrough's Wellcome Fund

POST-GRADUATE RESEARCH AWARDS (\*CO-AUTHORED BY GRADUATE MENTEE): *Italicized = UGA Internal Awards*

- TOTAL AWARDS POSTGRADUATE: \$5,563,000
- TOTAL EXTERNAL RESEARCH AWARDS: \$5,259,039
- TOTAL EXTERNAL AWARDS SINCE 2015 (UGA): \$3,524,064
- TOTAL EXTERNAL RESEARCH TO UGA SINCE 2015: \$2,229,981
- TOTAL FELLOWSHIPS SINCE 2015: \$23,997
- UGA INTERNAL RESEARCH AWARDS: \$169,581
- UGA TEACHING/MENTORING/DIVERSITY AWARDS: \$113,503

2024: Provost International Travel Funds, PI: Krista Capps (\$2,060)

2024: Student Technology Fee Technology Award, PI: Krista Capps and Alex Strauss. (\$3,572)

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

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

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: 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: 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: 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: 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)*
- 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)*
- 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 community 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)*
- 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)
- 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)

#### 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)

#### POST-GRADUATE TEACHING/SUPPORT FOR UNDERGRADUATE RESEARCH AWARDS

- 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)*
- 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)

#### GRADUATE RESEARCH GRANTS

- 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

#### GRADUATE RESEARCH FELLOWSHIPS

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

#### GRADUATE TEACHING/SUPPORT FOR UNDERGRADUATE RESEARCH AWARDS

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

2011: Excellence in Teaching Award, Cornell University

2010: Future Faculty Teaching Fellowship, Cornell University

#### GRADUATE TRAVEL GRANTS

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

#### UNDERGRADUATE HONORS

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: )

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: )

- 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. Scheduled: 24 April 2025.
- 2025: Socioecological implications of changes in subsidy delivery in the Anthropocene. Estación Experimental de Zonas Áridas. Almería, Spain. Scheduled: 9 April 2025
- 2025: Spatial subsidies in freshwater systems of the Anthropocene. Odum School of Ecology Seminar Series. Scheduled: 12 February 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: )

- 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
- 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 ecology and environmental science, Athens Community Career Academy, 13 March 2023
- 2022: Communities Upstream. Linger Longer Living Seminar Series, 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);

- 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 percoid 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 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, 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

### **Corporate Executive Sustainability Training:**

2025: (Scheduled) 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)

### **Participation in Training and Workshops:**

2023: Five Shifts in Research and Teaching Practices Towards a More Inclusive and Ethical Ecology, UGA

2022: Alan Alda Center for Communicating Science, Women in STEM Leadership Program Participant

2022-2023: Leading Large Integrative Research Teams Workshop Series Participant, UGA

2022: Active Learning Summer Institute, UGA

2019: Reintegrating Biology Workshop, National Science Foundation

2014: Woodstoich 3, Sydney, Australia (<http://woodstoich.org/>)

2011: Aquatic GIS Workshop, St. Louis University

### Teaching Experience, Instructional Grants, & Awards (Post-Graduate since jointing ):

#### COURSE INSTRUCTOR (\*SUPERVISED GRADUATE STUDENT EDUCATOR)

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-present (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. (<http://cappslab.ecology.uga.edu/resources-to-support-microplastics-research/>)  
 2012: Workshop instructor, Partnerships for Enhanced Engagement in Research (PEER), Solo, Indonesia

#### NEW COURSE DEVELOPMENT

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

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

#### GUEST LECTURING

2023: Ecology 1000  
 2022: Urban Ecology  
 2019, 2021: Freshwater Ecosystems  
 2018, 2019: Ecosystem Ecology

#### EDUCATIONAL RESOURCE DEVELOPMENT

- Supporting International Scholars Presentation Series  
[https://drive.google.com/drive/folders/1Ki6ynvdVB83szm4RV7tuQ3\\_WNj9\\_oth6?usp=sharing](https://drive.google.com/drive/folders/1Ki6ynvdVB83szm4RV7tuQ3_WNj9_oth6?usp=sharing)
- Course Design 101  
<https://drive.google.com/drive/folders/1zHuYPaqtjrOSKUM9YqYYREtmqz5-H8L1?usp=sharing>
- Preparing Application Materials for an Academic Job Search  
[https://drive.google.com/drive/folders/1ytWGGPtX6fsU5G\\_JLT2KBScRBRR00FDY?usp=drive\\_link](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](https://drive.google.com/drive/folders/1GKsWHZAIth1w60Ye5QR1uKZj6Fifwk_P?usp=drive_link)

- Preparing for an On-Campus Interview  
[https://drive.google.com/drive/folders/19jZRYleG7U7iNst1irOOH86baneH8g\\_i?usp=drive\\_link](https://drive.google.com/drive/folders/19jZRYleG7U7iNst1irOOH86baneH8g_i?usp=drive_link)
- Water Dawgs High School Training Materials  
[https://drive.google.com/drive/folders/1ROun\\_1IUMhdh7cS11GCzJGasjJ2avd-b?usp=sharing](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/1h1eRPXaNziO2wo9vVSzR1ZLGCxHN6\\_Vo?usp=sharing](https://drive.google.com/drive/folders/1h1eRPXaNziO2wo9vVSzR1ZLGCxHN6_Vo?usp=sharing)
- Professional Development Series for Careers in Academia  
[https://drive.google.com/drive/folders/1iWcrtUzz5TDVmy4L564zluOONDF-7mOK?usp=drive\\_link](https://drive.google.com/drive/folders/1iWcrtUzz5TDVmy4L564zluOONDF-7mOK?usp=drive_link)
- Bromide in Surface Waters (<http://cappslab.ecology.uga.edu/additional-info/bromide-in-surface-water/>). This material was created as part of an EPD Seed Grant.
- Low-Cost Sensor Network (<http://cappslab.ecology.uga.edu/additional-info/low-cost-sensor-network-information/>). The material was created using a UGA technology grant.
- Microplastic Pollution in Surface Waters (<http://cappslab.ecology.uga.edu/resources-to-support-microplastics-research/>). This material was created as part of an EPD Seed Grant.
- The Watershed Learning Network (<http://wln.ecology.uga.edu/>). The Watershed Learning Network was created in conjunction with students in the ECOL 3770S Urban Ecology Course as part of a collaboration with Eco-Action and American Rivers.

#### PROFESSIONAL DEVELOPMENT TRAINING IN PEDAGOGY AND MENTORING

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

#### INSTRUCTIONAL GRANTS RECEIVED

2024: Student Technology Fee Funds Grant University of Georgia,. Pls: Dr. Krista Capps, Dr. Alex Strauss

2024: Active Learning Faculty Mentors Fellowship

2023: Senior Teaching Fellows Fellowship

2022: Active Learning Summer Institute Fellowship

2018: Lilly Teaching Fellowship

2017: New Approaches to Diversity, University of Georgia. Pl: Dr. Krista Capps

2016: Service-Learning Fellowship. Service-Learning in Urban Environments

2016: Student Technology Fee Funds Grant University of Georgia, Providing access to real-time environmental data in UGA Classrooms. Pl: Dr. Krista Capps

2015: The UGA STEM Initiative Small Grants Program, Development of a service-learning course on the ecology of the urbanized landscape. Lead Pl: Dr. Krista Capps, UGA; Co-Pls: Dr. Seth Wenger, UGA; Mr. James Wood, UGA

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

#### PRESENTATIONS TO SUPPORT PEDAGOGICAL DEVELOPMENT FOR FACULTY AT UGA

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.

<https://drive.google.com/drive/folders/1OPHPVSnwgn8FMPJB99lbsCfa1s-o3WLM?usp=sharing>

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.

#### AWARD OR RECOGNITION FOR EXCELLENCE IN TEACHING

2024: Active Learning Faculty Mentor, University of Georgia <https://activelearning.uga.edu/instructor-development/instructor-resources/active-learning-mentors/>

2023: Russell Awards for Excellence in Undergraduate Teaching, University of Georgia

2023: Teaching Academy Member, University of Georgia

2023: Senior Teaching Fellow, University of Georgia

2022: Active Learning Leader Certificate, University of Georgia

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

2018-2020: Lilly Teaching Fellow, University of Georgia

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

2016-2017: Selected as a UGA Service-Learning Fellow, University of Georgia

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

2010: Future Faculty Teaching Program, Center for Teaching Excellence, Cornell University

#### Postdoctoral Research Mentoring:

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

2024-present: (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

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-present: (Ph.D. Biology): Lynda Bradley, Emory University

2018-present: (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: 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, 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, Irene Sánchez González  
 2024: NSF/SFS Emerge Fellowship, Natalia Vargas López  
 2024: Graduate School Travel Grant, Natalia Vargas López  
 2023: NSF GRFP, Julia Sharapi  
 2023: ICON Travel Grant, UGA, Anuja Mital  
 2023: Organization for Tropical Studies Scholarship, Natalia Vargas López  
 2023: 2<sup>nd</sup> 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

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 MENTEEES

2021: Isaac Wood, Center for Undergraduate Research Opportunities Research Award, UGA  
2019: Maddie Monroe<sup>^^</sup>, Center for Undergraduate Research Opportunities Honors Course, UGA  
2019: Becca Parsons<sup>^^</sup>, 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

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-present: 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 ([Link to podcast](#))  
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

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

2024-2025: Member, Biodiversity and Climate Change Assessment Review Committee, US National Academies of Sciences, Engineering, and Medicine  
 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: *(Scheduled) 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-present: 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 and 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-present: *Secretary/Treasurer*, Society for Freshwater Science, Southeast Chapter  
 2017-Present: *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: National Science Foundation (NSF)  
 2012, 2015, 2016: NSF/USAID: Partnerships for Enhanced Engagement in Research

#### AD HOC GRANT REVIEWS & SERVICE TO PROFESSION

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: Faculty Interview Committee for Coordinator of Faculty & Graduate Student Development Position, Center for Teaching and Learning, UGA  
 2025: Peer Teaching Evaluation Committee, Odum School  
 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-present: 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