

AMANDA L. SUBALUSKY

Department of Biology
University of Florida
Gainesville, Florida 32611
Phone: +1-352-294-6311; Email: asubalusky@ufl.edu
Website: <https://subaluskylab.com>

EDUCATION

2016	Ph. D., Ecology and Evolutionary Biology, Yale University
2007	M. S., Wildlife and Fisheries Sciences, Texas A&M University
1999	B. S., Biology with Honors, Vanderbilt University

RESEARCH POSITIONS

2019 - present	Assistant Professor, Department of Biology, University of Florida Affiliate faculty status with Center for African Studies (2019-present), School of Natural Resources and the Environment (2021-present), Biodiversity Institute (2022-present), and Tropical Conservation and Development Program (2023-present)
2018 - 2019	Postdoctoral Associate, Ecology and Evolutionary Biology, Yale University
2016 - 2018	Postdoctoral Scientist, Cary Institute of Ecosystem Studies
2010 - 2016	Doctoral Student, Ecology and Evolutionary Biology, Yale University
2008 - 2010	Research Coordinator, Global Water for Sustainability, Florida International University
2007	Research Associate, Wildlife and Fisheries Sciences, Texas A&M University
2004 - 2007	Masters Student, Wildlife and Fisheries Sciences, Texas A&M University
2004	DNA Lab Technician, Savannah River Ecology Laboratory
2002 - 2004	Wildlife and Herpetology Research Assistant, Joseph W. Jones Ecological Research Center

FELLOWSHIPS AND AWARDS

Society for Freshwater Science Hynes Award for New Investigators (2020)
Switzer Fellowship in Environmental Leadership (2013)
Yale University EEB Graduate Student Symposium, First place graduate oral presentation (2012)
Society for the Study of Amphibians and Reptiles Henri Seibert Student Award in Ecology (2007)
Texas A&M Ecological Integration Student Symposium, First place graduate oral presentation (2007)
L. T. Jordan Institute Travel Fellowship (2004)
Texas A&M University Regents' Fellowship (2004)

GRANTS

- Department of Energy, Biological and Environmental Research, Earth and Environmental Systems Sciences Division. *Water and carbon dynamics of coastal plain wetlandscapes*. Co-PI. \$999,979 (Invited for submission, in review).
- JRS Biodiversity Foundation. *Aquatic biodiversity in rivers of the Lake Victoria Basin*. PI. \$279,885. (2023-2025)
- Research Tutorial Abroad Grant, Center for African Studies, University of Florida. *Large wildlife feed the river food web in the Serengeti-Mara Ecosystem*. PI. \$11,900. (2022)
- Center for Land Use Efficiency, University of Florida. *Effects of stormwater ponds on microbial communities and subsequent ecosystem functioning in downstream receiving waters*. Co-PI. \$19,481. (2021-2022)
- Jones Center at Ichauway, Graduate Student Co-Sponsorship Award. *Food webs in seasonal wetlands*. PI. \$26,622. (2021-2022)
- Jones Center at Ichauway, Visiting Scientist Award. \$5,654. (2021)
- National Science Foundation, Department of Environmental Biology, Ecosystem Science. *EAGER: Meta-gut dynamics influence aquatic ecosystem processes*. PI. \$299,629 (2021-2023)
- *National Science Foundation, Department of Environmental Biology, Population and Community Ecology. *Does the magnitude of wildlife subsidies influence production, stability, and trophic cascades in a large African river?* Co-author: \$743,273 (2018-2022). PI: \$22,778 (Sub-award in 2021-2022).
- National Geographic Society, Waitt Foundation Grant. *Introduced hippos in Colombia: consequences for human and natural systems*. Co-author and senior personnel. \$14,870 (2016-17)
- *Worldwide Fund for Nature (WWF), Grant for Research. *Reading the historical context of the Mara using sediment cores from the Mara Wetland*. Co-author. \$65,640 (2015-17)
- National Geographic Society, Waitt Foundation Grant. *Reconstructing animal populations in east Africa using fecal sterol markers*. Co-author and senior personnel. \$15,000 (2015-2016)
- *National Science Foundation, Department of Environmental Biology, Ecosystem Studies Award. *Wildlife subsidies interact with discharge to influence ecosystem function of a large African river*. Co-author. \$996,695 (2014-2018)
- *National Geographic Society, Center for Research and Exploration Grant. *How do animal migrations interact with environmental variability to alter ecosystem function?* Co-author. \$20,000 (2013-14)
- Ecology and Evolutionary Biology Chair's Fund, Yale University. *Wildlife subsidies and their influence on the Mara River*. \$2,000 (2013)
- Lee S. Pierce ('82) Fund, Yale University. *Wildlife-mediated allochthonous subsidies and their impact on ecosystem function*. \$5,000 (2012)
- Yale Institute for Biospheric Studies Center for Field Ecology Grant, Yale University. *Quantifying animal-mediated allochthonous nutrient subsidies in the Mara River Basin, Kenya/Tanzania*. \$2,500 (2011)

Yale Institute for Biospheric Studies ECOSAVE Grant, Yale University. *Developing international collaborations to study biodiversity research in the Mara River*. \$4,000 (2011)

Texas Herpetological Society Grant in Herpetology. *The role of seasonal wetlands in the ecology of the American alligator*. \$500 (2005)

Chicago Herpetological Society Grant in Herpetology. *Using radio telemetry to track American alligator movement patterns*. \$500 (2005)

Howard Hughes Medical Institute Undergraduate Research Grants. *The influence of marine subsidies on plant population dynamics on desert islands in the Gulf of California*. \$6,000 (1998)

*indicates grants on which I was not an official PI due to graduate student/post-doc status, but on which I played a senior role in development and implementation

PUBLICATIONS

Kemp, A. C., C. H. Vane, A. W. Kim, C. L. Dutton, **A. L. Subalusky**, S. K. Kemp, and A. C. Parnell. 2021. Fecal sterols as a potential tool for conservation paleobiology in East Africa. *Biodiversity and Conservation* 31:183-209. doi: 10.1007/s10531-021-02328-y.

Dutton, C. L., **A. L. Subalusky**, A. Sanchez, S. Estrela, N. Lu, S. K. Hamilton, L. Njoroge, E. J. Rosi, and D. M. Post. 2021. The meta-gut: community coalescence of animal gut and environmental microbiomes. *Scientific Reports* 11: 23117. doi: 10.1038/s41598-021-02349-1.

- Covered by Science Magazine

^{P,1}Frauendorf, T. C., ¹**A. L. Subalusky**, C. L. Dutton, S. Hamilton, F. Masese, D. M. Post, E. J. Rosi, G. Singer. 2021. Animal legacies lost and found in freshwater ecosystems. *Environmental Research Letters* 16:115011. doi: 10.1088/1748-9326/ac2cb0.

^UHandler, K., **A. L. Subalusky**, C. Kendall, C. L. Dutton, E. J. Rosi, and D. M. Post. 2021. Temporal niche partitioning of scavengers on wildebeest carcasses after mass mortality events. *Ecosphere* 12: e03326. doi:10.1002/ecs2.3326.

Alves da Rosa, C., B. R. Ribeiro, V. Bejarano, F. H. Puertas, A. Bocchiglieri, et al. 2020. Neotropical alien mammals: a data set of occurrence and abundance of alien mammals in the Neotropics. *Ecology* 101: e03115. doi: 10.1002/ecy.3115.

Masese, F. O., M. J. Kiplagat, C. Romero, **A. L. Subalusky**, C. L. Dutton, D. M. Post, and G. A. Singer. 2020. Hippopotamus are distinct from domestic livestock in their resource subsidies to and effects on aquatic ecosystems. *Proceedings of the Royal Society-B* 287:20193000. doi: 10.1098/rspb.2019.3000.

Dutton, C. L., **A. L. Subalusky**, S. K. Hamilton, ^UE. C. Jourdain, L. Njoroge, E. J. Rosi, and D. M. Post. 2020. Alternative biogeochemical states of river pools mediated by hippo use and flow variability. *Ecosystems* 24:284-300. doi: 10.1007/s10021-020-00518-3.

Subalusky, A. L., C. L. Dutton, E. J. Rosi, L. Puth, and D. M. Post. 2020. A river of bones: wildebeest skeletons leave a legacy of mass mortality in the Mara River, Kenya. *Frontiers in Ecology and Evolution* 8:31. doi: 10.3389/fevo.2020.00031.

- Covered by Nature.

- Subalusky, A. L.**, E. Anderson, G. Jiménez, D. M. Post, D. Echeverri Lopez, S. Garcia, L. F. Nova León, J. Reátiga Parrish, A. Rojas, S. Solari, L. F. Jiménez Segura. 2019. Potential ecological and socioeconomic impacts of a novel megaherbivore introduction of hippopotamus into Colombia's Magdalena River Basin. *Oryx* 55:105-113. doi: 10.1017/S0030605318001588.
- Covered by Atlas Obscura, Phys.org, and others.
- Schoelynck, J., **A. L. Subalusky**, E. Struyf, C. L. Dutton, P. Frings, D. Unzué-Belmonte, B. Van de Vijver, D. M. Post, D. Conley, E J. Rosi, P. Meire. 2019. Hippos (*Hippopotamus amphibius*): the animal silica pump. *Science Advances* 5: eaav0395. doi: 10.1126/sciadv.aav0395
- Covered by Covered by Science News, Phys.org, Science Daily, and others.
- Dutton, C. L., **A. L. Subalusky**, T. D. Hill, J. C. Aleman, E. J. Rosi, K. B. Onyango, K. Kanuni, J. A. Cousins, A. C. Staver, D. M. Post. 2019. A 2000-year old sediment record reveals rapidly changing sedimentation and land use since the 1960s in the Upper Mara-Serengeti Ecosystem. *Science of the Total Environment* 664: 148-160. doi: 10.1016/j.scitotenv.2019.01.421
- Wenger, S., **A. L. Subalusky**, M. Freeman. 2019. The missing dead: The lost role of animal remains in nutrient cycling in North American Rivers. *Food Webs* 18: e00106. doi: 10.1016/j.fooweb.2018.e00106
- Smith, L. L., **A. L. Subalusky**, C. L. Atkinson, J. E. Earl, D. M. Mushet, D. E. Scott, S. L. Lance, and S. A. Johnson. 2019. Biological connectivity of seasonally ponded wetlands across spatial and temporal scales. *Journal of the American Water Resources Association* 55:334-353. doi: 10.1111/1752-1688.12682.
- Subalusky, A. L.**, C. L. Dutton, L. Njoroge, E. J. Rosi, and D. M. Post. 2018. Organic matter and nutrient inputs from large wildlife influence ecosystem function in the Mara River, Africa. *Ecology* 99: 2558-2574. doi: 10.1002/ecy.2509
- Subalusky, A. L.**, and D. M. Post. 2018. Context dependency of animal resource subsidies. *Biological Reviews* 94: 517-538. doi: 10.1111/brv.12465
- Dutton, C. L., **A. L. Subalusky**, E. J. Rosi, and D. M. Post. 2018. Organic matter loading by hippopotami causes subsidy overload resulting in downstream hypoxia and fish kills. *Nature Communications* 9: 1951. doi: 10.1038/s41467-018-04391-6
- Covered by Science Magazine, The Atlantic and others.
- Dutton, C. L., **A. L. Subalusky**, S. C. Anisfeld, L. Njoroge, E. J. Rosi, and D. M. Post. 2018. The influence of a semi-arid sub-catchment on suspended sediments in the Mara River, Kenya. *PLOS One* 13:e0192828. doi: 10.1371/journal.pone.0192828
- Subalusky, A. L.**, C. L. Dutton, E. J. Rosi, and D. M. Post. 2017. Annual mass drownings of the Serengeti wildebeest migration influence nutrient cycling and storage in the Mara River. *Proceedings of the National Academy of Sciences* 114: 7647-7652. doi: 10.1073/pnas.1614778114
- Covered by Science Magazine, The Washington Post, Smithsonian Magazine, National Geographic, The Atlantic and others.
- Dudley, J. P., B. M. Hang'ombe, F. Leendertz, L. Dorward, J. de Castro, **A. L. Subalusky**, M. Clauss. 2015. Carnivory in *Hippopotamus amphibius*: implications for the ecology and epidemiology of anthrax in African landscapes. *Mammal Review* 46:191-203.
- Fitzgerald, L. A., M. L. Treglia, N. Angeli, T. J. Hibbitts, D. J. Leavitt, **A. L. Subalusky**, I. Lundgren, and Z. Hillis-Starr. 2015. Determinants of successful establishment and post-translocation dispersal of a

new population of the critically endangered St. Croix ground lizard (*Ameiva polops*). *Restoration Ecology* 23:776-786.

Subalusky, A. L., C. L. Dutton, E. J. Rosi-Marshall, D. M. Post. 2014. The hippopotamus conveyor belt: vectors of carbon and nutrients from terrestrial grasslands to aquatic systems in sub-Saharan Africa. *Freshwater Biology* 60:512-525. doi: 10.1111/fwb.12474

- Covered by Science Magazine.

McClain, M. E., **A. L. Subalusky**, E. P. Anderson, S. B. Dessu, A. M. Melesse, P. M. Ndomba, J. O. D. Mtamba, R. A. Tamatamah, and C. Mligo. 2014. Comparing flow regime, channel hydraulics and biological communities to infer flow-ecology relationships in the Mara River of Kenya and Tanzania. *Hydrological Sciences Journal* 59:801-819. doi: 10.1080/02626667.2013.853121

Subalusky, A. L., R. C. Garrick, N. A. Schable, J. Osborne, and T. C. Glenn. 2012. Development and characterization of tetranucleotide microsatellite loci in the American Alligator (*Alligator mississippiensis*). *Conservation Genetics Resources* 4:567-570. doi: 10.1007/s12686-011-9593-2

Subalusky, A. L., L. A. Fitzgerald, and L. L. Smith. 2009b. Ontogenetic niche shifts in American Alligators establish functional connectivity between aquatic systems. *Biological Conservation* 142:1507-1514. doi: 10.1016/j.biocon.2009.02.019

Subalusky, A. L., L. L. Smith, and L. A. Fitzgerald. 2009a. Detection of American Alligators in isolated, seasonal wetlands. *Applied Herpetology* 6:199-210. doi: 10.1163/157075408X386132

¹indicates shared first authorship

^Uindicates an undergraduate student author I mentored

^Pindicates an postdoctoral associate I mentored

MANUSCRIPTS IN FINAL STAGES OF PREPARATION OR REVIEW[§]

Subalusky, A. L., Sethi, S. A., E. P. Anderson, D. Echeverri, G. Jimenez, S. Garcia, D. E. Lopez, L. J. Nova Leon, J. F. Reatiga Parrish, A. Rojas. Constraints on management options may lead to long-term social and ecological transformation by hippos in Colombia. *In revision at Scientific Reports*.

Pringle, R. M., J. O. Abraham, T. M. Anderson, T. C. Coverdale, A.B. Davies, C. L. Dutton, A. Gaylard, J. R. Goheen, R. M. Holdo, M. C. Hutchinson, D. M. Kimuyu, R. A. Long, **A. L. Subalusky**, M. P. Veldhuis. Ecosystem impacts of large herbivores in the Anthropocene: predicting functional consequences of species loss and recovery. *In revision at Current Biology*.

Anderson, E. P., **A. L. Subalusky**, G. Jimenez, A. A. Rojas, L. Nova Leon, J. Reatiga-Parrish, S. Garcia, S. A. Sethi, and D. Echeverri. Rapid social uptake of introduced *Hippopotamus amphibius* in a passive rewilding experiment in Colombia. *To be submitted to Conservation Letters*.

[§]Drafts available to be shared upon request

BOOK CHAPTERS

Baxter, C., **A. L. Subalusky**, and H. Uno. *In revision*. Reciprocal stream-land interactions. *In: Foundations of Stream Ecology*. Eds: W. F. Cross, J. P. Benstead, A. M. Marcarelli, and R. A. Sponseller. University of Chicago Press, Chicago, Illinois, USA.

Smith, L. L., **A. L. Subalusky**, C. L. Atkinson, and L. K. Kirkman. 2017. Geographically Isolated Wetlands: Embedded Habitats in Longleaf Pine Forests. *In: Ecological Restoration and Management of Longleaf Pine Forests*. Eds: L. K. Kirkman and S. B. Jack. CRC Press, Boca Raton, Florida, USA.

McClain, M., and **A. L. Subalusky**. 2013. Surface flows for people and wildlife in the transboundary Mara River Basin. *In Kenya: A Natural Outlook*. Elsevier, Chennai, India.

PUBLISHED REPORTS

Global Water for Sustainability. 2011. Refining reserve flow recommendations for the Mara River Basin. *GLOWS*, Florida International University, Miami, Florida, USA. **Served as primary author.**

Dutton, C. L., and **A. L. Subalusky**. 2011. Flesh-eating hippos sighted in the Maasai Mara. *SWARA, Journal of the East African Wildlife Society* 11:54-55.

Lake Victoria Basin Commission. 2010. Assessing Reserve flows for the Mara River, Kenya and Tanzania. Final Report. *Lake Victoria Basin Commission*, Kisumu, Kenya. **Served as primary author.**

INVITED PRESENTATIONS

Interactions between wildlife and water shape landscape biogeochemistry. 2022. Invited Seminar, Princeton University, Princeton, NJ, USA.

Legacy effects of animals on stream ecosystems. 2022. Invited Speaker, Ecological Society of Japan. Virtual Annual Meeting.

Animal legacies in aquatic ecosystems: how large vertebrates shape the freshwater world. 2022. Invited Seminar, Cornell University, Ithaca, NY, USA.

Landscape zoogeochemistry: how animal movements can drive ecosystem processes. 2021. Invited Seminar, University of Montreal, Montreal, Quebec, Canada.

Wildebeest mass drownings influence nutrient cycling and aquatic and terrestrial scavengers on timescales from days to decades. 2021. Invited Speaker, Association for Tropical Biology and Conservation. Virtual Annual Meeting.

Context dependency of animal resource subsidies between terrestrial and aquatic ecosystems. 2021. Invited Speaker, Association for the Sciences of Limnology and Oceanography. Virtual Annual Meeting.

Wildlife movements connect landscapes and influence ecosystem function. 2021. Invited Seminar, Fish and Wildlife Research Institute, Gainesville, FL, USA.

Animal migrations influence river ecosystem dynamics: a perspective from East Africa. 2021. Invited Seminar, Memorial University of Newfoundland, St. Johns, Newfoundland, Canada.

Zoogeochemistry and the influence of animal migrations on river ecosystem dynamics. 2020. Invited Seminar, Program in Ecology Seminar Series, Duke University, Durham, NC, USA.

Wildlife movements connect landscapes and influence ecosystem function. 2019. Invited Seminar, Department of Wildlife Ecology and Conservation, University of Florida, Gainesville, FL, USA.

Using experimental streams to understand animal effects on stream ecosystems. 2020. Invited Seminar, Water, Wetlands and Watersheds Seminar, Howard T. Odum Center for Wetlands, University of Florida, Gainesville, FL, USA.

- The influence of wildlife on landscape connectivity and aquatic ecosystem function. 2019. Invited Seminar, Jones Center at Ichauway, Newton, Georgia, USA.
- Animal migrations and resource subsidies influence river ecosystem dynamics. 2019. Invited Seminar, Department of Biology, University of Oklahoma, Norman, Oklahoma, USA.
- Hippo and wildebeest migrations drive river ecosystem dynamics in the Serengeti-Mara Ecosystem. 2019. Invited Seminar, Department of Natural Resources and the Environment, University of Connecticut, Storrs, Connecticut, USA.
- A river of bones: wildebeest skeletons leave a legacy of mass mortality in the Mara River. 2018. Invited Speaker, Society for Freshwater Science Annual Conference, Detroit, Michigan, USA.
- Resource subsidies and discharge variability influence river ecosystem dynamics. 2018. Invited Seminar, Department of Biology, Utah State University, Logan, Utah, USA.
- Resource subsidies and discharge variability influence river ecosystem dynamics. 2018. Invited Seminar, Department of Wildlife and Fisheries Sciences, Texas A&M University, College Station, Texas, USA.
- Animal migrations and resource subsidies influence river ecosystem dynamics. 2018. Invited Seminar, Department of Zoology and Physiology, University of Wyoming, Laramie, Wyoming, USA.
- Animal migrations and resource subsidies influence river ecosystem dynamics. 2018. Invited Seminar, Department of Biology, University of Florida, Gainesville, Florida, USA.
- Resource subsidies and discharge variability influence river ecosystem dynamics. 2018. Invited Seminar, Department of Biological Sciences, University of Alabama, Tuscaloosa, Alabama, USA.
- Animal migrations and resource subsidies influence river ecosystem dynamics. 2018. Invited Seminar, Department of Biology, University of Louisville, Louisville, Kentucky, USA.
- Animal migrations and resource subsidies influence river ecosystem dynamics. 2017. Invited Seminar, Department of Wildlife and Fisheries Sciences, Mississippi State University, Starkville, Mississippi, USA.
- Animal migrations and resource subsidies influence river ecosystem dynamics. 2017. Invited Seminar, Biogeochemistry and Environmental Science and Sustainability Seminar Series, Cornell University, Ithaca, New York, USA.
- Measuring biological connectivity at different scales. 2017. Invited Speaker, American Water Resources Association Spring Specialty Conference: Aquatic Systems Connectivity, Snowbird, Utah, USA.
- Hippos and wildebeest in the Mara River: impacts of large animal migrations on a river ecosystem. 2017. Invited Seminar, Yale Institute of Biospheric Studies, New Haven, Connecticut, USA.
- Animal migrations and resource subsidies influence river ecosystem dynamics. 2017. Invited Seminar, Odum School of Ecology, University of Georgia, Athens, Georgia, USA.
- Large wildlife movements connect savanna grasslands and rivers and drive changes in whole-river metabolism. 2017. Invited Speaker, Association for the Sciences of Limnology and Oceanography Annual Meeting, Honolulu, Hawaii, USA.
- Animal migrations and river ecosystem function in the Mara River, Kenya. 2016. Invited Seminar, Water in the World Seminar Series, University of Antwerp, Belgium.
- From alligator scales to hippo tails: tales from an ecological journey. 2016. Keynote Speaker, Amity High School Science Research Program Symposium, Woodbridge, Connecticut, USA.

Migrating wildebeest, raging hippos and robotic boats on Kenya's Mara River. 2015. Invited Speaker, Peabody Museum of Natural History, New Haven, Connecticut, USA.

Wildebeest mass drownings affect nutrient dynamics and ecosystem metabolism in the Mara River. 2014. Invited Speaker, Joint Aquatic Sciences Meeting, Portland, Oregon, USA.

Feeding migrations by hippopotami alter nutrient cycling in a sub-Saharan African river. 2013. Invited Speaker, Society for Freshwater Science Annual Meeting, Jacksonville, Florida, USA.

CONTRIBUTED PRESENTATIONS

Galápagos giant tortoises structure freshwater ponds in Santa Cruz Island, Galápagos. 2021. Society for Freshwater Science, Virtual Annual Meeting.

Large wildlife provide significant terrestrial resource subsidies to an African river food web. 2017. Society for Freshwater Sciences, Raleigh, North Carolina, USA.

Causes and consequences of wildebeest mass drownings in the Mara River, Kenya. 2015. Ecological Society of America, Baltimore, Maryland, USA.

Watershed loading and fate of large mammal carcasses from mass drownings in the Mara River. 2015. Graduate Student Symposium, Yale University, New Haven, Connecticut, USA.

Feeding migrations by hippopotami alter nutrient cycling in a sub-Saharan African river. 2013. Graduate Student Symposium, Yale University, New Haven, Connecticut, USA.

Influence of animal subsidies on the Mara River, Kenya. 2012. Graduate Student Symposium, Yale University, New Haven, Connecticut, USA.

Assessing reserve flows for the Mara River. 2009. Lake Victoria Basin Commission, East African Community, Kisumu, Kenya.

Ontogenetic shifts in habitat use in the American alligator: another case for the importance of seasonal wetlands. 2007. Ecological Society of America Annual Meeting, San Jose, California, USA.

Ontogenetic shifts in habitat use in the American alligator: another case for the importance of seasonal wetlands. 2007. American Society of Ichthyologists and Herpetologists Annual Joint Meeting, St. Louis, Missouri, USA.

The use of hydrogen isotopes to characterize aquatic ecosystems. 2007. Ecological Integration Student Symposium, Texas A&M University, College Station, Texas, USA.

Effects of hydroperiod and landscape connectivity on wetland use by alligators on an ecological reserve in southwest Georgia, USA. 2006. Society for Conservation GIS and Society for Conservation Biology Joint Annual Meeting, San Jose, California, USA.

Functional connectivity between wetlands and riverine systems through alligator movement patterns. 2006. Society for Conservation GIS and Society for Conservation Biology Joint Annual Meeting, San Jose, California, USA.

Integrated methods for studying animal movement across ecosystems. 2006. Ecological Integration Student Symposium, Texas A&M University, College Station, Texas, USA.

The role of isolated wetlands in the ecology of the American alligator. 2005. American Society of Ichthyologists and Herpetologists Annual Joint Meeting, Tampa, Florida, USA.

The role of isolated wetlands in the ecology of the American alligator. 2005. Conservation, Ecology, & Evolutionary Biology Student Research Symposium, Texas A&M University, College Station, Texas, USA.

Preliminary surveys of American alligators in ephemeral wetlands on Ichauway Ecological Preserve, Georgia, USA. 2002. Crocodile Specialist Group Meeting, Gainesville, Florida, USA.

Population dynamics of *Atriplex barclayana* on desert islands in the Gulf of California. 1999. Ecological Society of America, Baltimore, Maryland, USA.

TEACHING EXPERIENCE

Instructor of Record

- Principles of Ecosystem Ecology, University of Florida (Fall 2021)
- Quest2: Water for People and Nature, University of Florida (Spring 2021, 2023)
- Seminar in Ecology, University of Florida (Fall 2020, 2022)
- General Ecology, University of Florida (Fall 2020, 2022)
- Zoogeochemistry: Animal Effects on Ecosystems, University of Florida (Spring 2020, 2022)

Short Course Instructor

- Aquatic Food Web Ecology, University of Florida (2021)
- River Nutrient Uptake and Metabolism, Cary Institute of Ecosystem Studies (2017)
- Food Webs and Stable Isotope Ecology, Yale University (2016)

Teaching Assistant

- Fundamentals of Ecosystem Ecology, Cary Institute of Ecosystem Studies (2019)
- General Ecology – Discussion Section, Yale University (2012, 2014)
- Ecology, Evolution and the Diversity of Life – Laboratory, Yale University (2011)
- Ecology, Evolution and Behavior – Writing-Intensive Discussion Section, Yale University (2011)
- Herpetology – Lecture and Laboratory, Texas A&M University (2007)

Guest Lecturer

- Animal Migrations, University of Florida (2022)
- Stable Isotope Ecology, University of Florida (2022)
- Community Ecology, University of Florida (2020)
- Ecosystem Ecology, University of Florida (2019)
- Conservation Biology, Yale University (2014, 2016)
- General Ecology, Yale University (2014)
- Herpetology, Texas A&M University (2007)

MENTORSHIP EXPERIENCE

Post-Doctoral Scientists

- Christopher Dutton, Postdoctoral Associate, University of Florida (2021-present)
- Nicole Lynn-Bell, Postdoctoral Associate, University of Florida (2022)
- Therese Frauendorf, Postdoctoral Associate, Yale University (2019-2022)

Graduate Students

- Tyler Bowling, Doctoral student, University of Florida (2022-present)
- Sarah Johnson, Doctoral student, University of Florida (2022-present)
- Joshua Benjamin, Doctoral student, University of Florida (2021-present)
- Nicole Yetke, Masters student, University of Florida (2020-present)
- Madelon Case, Women in Science at Yale Mentorship Program, Yale University (2018-2019)
- Kyra Prats, Women in Science at Yale Mentorship Program, Yale University (2015-2019)

Undergraduate Students

- Sharon Bridgemohan, University of Florida (2022-present)
- Tavis Goldwire, University of Florida (2022-present)
- Ana Clara Martiuzzi, University of Florida (2022-present)
- Alesha Wallen, University of Florida (2022-present)
- Liam O'Connor, University of Florida (2021-present)
- Ethan Lawrence, University of Florida (2021-present)
- Emily Helms, University of Florida (2022)
- Ma Gabrielle Bernasol, University of Florida (2022)
- Nicholas Mauro, Emerging Scholars Program, University of Florida (2021)
- Anna Reside, REU student, Yale University (2020-2022)
- Jordan Chancellor, REU student, Yale University (2017-2019)
- Ellie Handler, Honors student, Yale University (2017-18)
- Ella Jourdain, REU student, Yale University (2016-17)
- James Landefeld, REU student, Yale University (2016-17)
- Erik Arndt, REU student, Cary Institute of Ecosystem Studies (2015-16)
- Undergraduate students through Women in Science at Yale, Yale University (2015-2019)
- Undergraduate researchers in herpetology, Texas A&M University (2006-07)

High School Students

- Sean Lee, Amity High School Science Research Program (2017-2018)
- Katherine Handler, Amity High School Science Research Program, Winner of American Museum of Natural History Young Naturalist Award and one of 100 International Finalists for the Google Science Fair (2014-2017)

COMMUNICATION AND OUTREACH

- Annual participant in the iDigTrio Biology Career Conference and Fair to introduce students from under-represented groups to careers in scientific research (2019-present)
- Research highlighted in the college textbook *Microbiology: An Evolving Science*. 2022. By: Joan Slonczewski. W.W. Norton & Company.
- Profiled in for *Women in Field Biology: A Journey into Nature*. 2022. By: Martha J. Crump and Michael J. Lannoo, CRC Press.
- Coverage of my scientific publications by popular science outlets including Science Magazine (2014, 2021), The Atlantic (2017,2018), The Washington Post (2017), Smithsonian Magazine (2017), and others.
- Interviewed by Utah Public Radio's *UnDisciplined* (2018) on aquatic ecology, and NY Public Radio's *Radiolab* (2019) and Austria Public Radio *ORF Österreich 1* (2021) on animal migrations

- Participant in Talk Science with Her, a community outreach event in honor of the UN International Women and Girls in Science Day (2019)

SERVICE

Departmental Service

- Member of 16 PhD committees and 5 MSc committees (2019-present)
- Member of search committee for Fiscal Assistant II (2022)
- Elected member of the Climate Committee for the Department of Biology (2020-2021)
- Invited member of the Artificial Intelligence Committee for the Department of Biology (2020)
- Elected member of the Mentorship Committee for the Department of Biology (2019-present)

University Service

- Elected member of the Advisory Council for the Center for African Studies, University of Florida (2022-present)

Professional Service

- Organizing a special session at the Association for the Science of Limnology and Oceanography Annual Meeting, “Untangling food web and ecosystem effects of reciprocal subsidies” (2023)
- Invited member of the Scientific Advisory Council for the Greater Serengeti Mara Conservation Society (2022-present)
- Member of the Hynes Award Committee for the Society for Freshwater Science (2020-present)
- Member of the Publications Committee for the Society for Freshwater Science (2018-present)
- Site Review Member for NSF LTER Panel (2022)
- Organized a special session at the Society for Freshwater Science Annual Meeting, “Animal legacies lost and found” (2021)
- Ad-hoc proposal reviewer for NSF Ecosystems Panel (2021)
- Proposal reviewer for the General Research Office (Dirección General de Investigación - DGI) of the Universidad de las Americas - Ecuador (UDLA) (2018)
- Proposal reviewer for the National Fellowships Committee for Graduate Women in Science (2017)
- Proposal reviewer for the Yale Institute of Biospheric Studies Small Grants Panel (2016)
- Organized a special session at the Ecological Society of America Annual Meeting, “Danse macabre: the role of migrations and mortality in shaping our planet” (2015)
- Organized the Ecology and Evolutionary Biology Graduate Student Symposium at Yale University (2013)
- Reviewer for African Journal of Ecology, Aquatic Conservation, Aquatic Sciences, Biological Conservation, Ecology, Ecology Letters, Ecological Monographs, Ecospheres, Ecosystems, Estuaries and Coasts, Freshwater Biology, Herpetologica, Herpetological Review, Hydrobiologia, Integrative and Comparative Biology, Journal of Wildlife Management, Limnology and Oceanography, Marine and Coastal Fisheries, Oikos, Nature Communications, Philosophical Transactions of the Royal Society B, PLOS One, Proceedings of the National Academy of Sciences, Proceedings of the Royal Society-B, Royal Society Open Science, Southeastern Naturalist, and The Southwestern Naturalist

- Member of the Ecological Society of America, the Society for Freshwater Science, and the Association for the Science of Limnology and Oceanography