

## Scott J. Connelly

Odum School of Ecology  
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### Current Position:

Senior Lecturer, Odum School of Ecology, University of Georgia, Athens, Georgia

### Education:

University of Georgia	Ecology	Ph.D. 2009
University of Georgia	Ecology	B.S. 2000
State University of New York, Oneonta	Business Economics	B.S. 1987

### Courses Taught:

- The Ecological Basis for Environmental Issues (ECOL1000), University of Georgia, Athens & University of Georgia, Costa Rica campus
- The Ecological Basis for Environmental Issues- Online (ECOL1000E)
- Take Me to the River: Ecology & Conservation of Aquatic Ecosystems (FYOS1000), University of Georgia, Athens
- Tropical Field Ecology (ECOL3100), Costa Rica
- Professional Development for Careers in Ecology (ECOL3400), University of Georgia, Athens
- Ecology (ECOL3500), University of Georgia, Athens & University of Georgia, Costa Rica Campus
- Ecology Laboratory (ECOL3510), University of Georgia, Athens; University of Georgia, Costa Rica Campus
- Conservation Biology (ECOL3530 & ECOL3530E), University of Georgia, Athens
- Tropical Ecology: From Organisms to Ecosystems (ECOL3600) University of Georgia, Athens
- Behavioral Ecology (ECOL4540), University of Georgia, Athens
- Ecological Research (ECOL4960), University of Georgia, Costa Rica Campus
- Stream Ecology (ECOL8820), University of Georgia, Athens

### Publications:

Darixa D. Hernandez-Abrams, Scott Connelly, Mary C. Freeman, Pablo E. Gutierrez-Fonseca, Seth J. Wenger. 2023. Seasonal variability in macroinvertebrate assemblages in paired perennial and intermittent streams in Costa Rica. *Hydrobiologia*. 850(1): 215-230.

Thomas R. Barnum, John Timothy Wootton, Rebecca J. Bixby, John M. Drake, David Murray-Stoker, Checo Colón-Gaud, Amanda T. Rugenski, Therese C. Frauendorf, Scott Connelly, Susan S. Kilham, Matt R. Whiles, Karen R. Lips, Catherine M. Pringle. 2021. Mechanisms underlying lack of functional compensation by insect grazers after tadpole declines in a Neotropical stream. *Limnology and Oceanography*. 10.1002/lno.11904.

Yang, Carol & Wenger, Seth & Rugenski, Amanda & Wehrtmann, Ingo & Connelly, Scott & Freeman, Mary. 2020. Freshwater crabs (Decapoda: Pseudothelphusidae) increase rates of leaf breakdown in a neotropical headwater stream. *Freshwater Biology*. 65. 10.1111/fwb.13524.

Barnum, T.R., J. M. Drake, C. Colón-Gaud, A. T. Rugenski, T. C. Frauendorf, S. Connelly, S. S. Kilham, M. R. Whiles, K. R. Lips, and C. M. Pringle. 2015. Evidence for the persistence of food web structure after amphibian extirpation in a Neotropical stream. *Ecology* 96: 2106–2116.

Rantala, H. M., Nelson, A. M., Fulgoni, J. N., Whiles, M. R., Hall, R. O., Dodds, W. K., Verburg, P., Huryn, A. D., Pringle, C. M., Kilham, S. S., Lips, K. R., Colon-Gaud, C., Rugenski, A. T., Peterson, S. D., Fritz, K., McLeran, K. E. and Connelly, S. 2015. Long-term changes in structure and function of a tropical headwater stream following a disease-driven amphibian decline. *Freshwater Biology* 60: 575–589.

Connelly, S., C.M. Pringle, M. Hunte-Brown, S.S. Kilham, M.R. Whiles, K.R. Lips, and C. Colon-Gaud. 2014. Initial versus long-term responses of algae and nitrogen cycling to amphibian declines in a neotropical stream. *Freshwater Biology* 59: 1113-1122.

Whiles, M., R. Hall, W. Dodds, P. Verburg, A. Huryn, C. Pringle, K. Lips, S. Kilham, C. Colon-Gaud, A. Rugenski, S. Peterson, and S. Connelly. 2013. Disease-driven amphibian declines alter ecosystem processes in a tropical stream. *Ecosystems* 16: 146-157.

Connelly, S., C.M. Pringle, M.R. Whiles, K.R. Lips, S.S. Kilham, and R. Brenes. 2011. Do tadpoles affect leaf decomposition in neotropical streams? *Freshwater Biology* 59: 1863-1875.

Colón-Gaud, C., M.R. Whiles, S.S. Kilham, K.R. Lips, C.M. Pringle, S. Connelly, R. Brenes, and S.D. Peterson. 2010. Potential functional redundancy and resource facilitation between tadpoles and insect grazers in tropical headwater streams. *Freshwater Biology* 55: 2077-2088.

Colón-Gaud, C., M.R. Whiles, S.S. Kilham, K.R. Lips, C.M. Pringle, S. Connelly, R. Brenes, and S.D. Peterson. 2010. Stream invertebrate responses to a catastrophic decline in consumer diversity. *Journal of the North American Benthological Society* 29: 1185-1198.

Colón-Gaud, C., M.R. Whiles, S.S. Kilham, K.R. Lips, C.M. Pringle, S. Connelly, and S.D. Peterson. 2009. Assessing ecological responses to catastrophic amphibian declines:

Patterns of macroinvertebrate production and food web structure in upland Panamanian streams. *Limnology and Oceanography* 54: 331-343.

Connelly, S., C.M Pringle, R.J. Bixby, R. Brenes, M.R. Whiles, K.R. Lips, S.S. Kilham, and A.D. Huryn, 2008. Changes in stream primary producer communities resulting from the loss of tadpoles: Can small-scale experimental results predict effects of large-scale catastrophic amphibian declines? *Ecosystems* 11: 1262-1276.

Whiles, M., K. Lips, C. Pringle, S.S. Kilham, R.J. Bixby, R. Brenes, S. Connelly, J.C. Colon-Gaud, M. Hunte-Brown, A.D. Huryn, C. Montgomery, and S. Peterson. 2006. The effects of amphibian population declines on the structure and function of Neotropical stream ecosystems. *Frontiers in Ecology and the Environment* 4: 27-34.

Helms, S.E., S.J. Connelly, and M.D. Hunter. 2004. Effects of variation among plant species on the interaction between an herbivore and its parasitoid. *Environmental Entomology* 29: 44-51.

#### **Non-Peer Reviewed Publications:**

Connelly, S. Herpetofauna and Ecosystem Health. In: *Mader's Reptile and Amphibian Medicine and Surgery, 3rd edition (Ed: Divers, S.)*. 2017. Elsevier, St. Louis, MO (chapter length: 8 pages).

Pringle, C.M., E.P Anderson, M. Ardón, R.J. Bixby, S. Connelly, J.H. Duff, A.P. Jackman, P. Paaby, A. Ramírez, G.E. Small, M.N. Snyder, and F.J. Triska. 2015. Rivers of Costa Rica. In: M. Kappelle (ed.), *Costa Rican Ecosystems*. University of Chicago Press, Chicago, IL.

Barrett G., T. Barrett, S. Connelly, A. Mehring, and J. Moree. 2011. *Ecology Exercise Book: An Ecosystem Approach*. Kendall/Hunt Publishing. Dubuque, IA.

#### **Presented Papers:**

Connelly S, Colon-Gaud C, Rugenski A, Frauendorf T, Kilham SS, Whiles MR, Lips K, Pringle CM. 2015. Tropical Amphibian Declines in Streams (TADS): A ten-year post-amphibian decline analyses of stream ecosystem response. Ecological Society of America, Baltimore, MD.

Ryan, K., S. Connelly, A. Cruz. 2012. Aquatic macroinvertebrates and water quality monitoring program development in the Bellbird Biological Corridor. Latinamerican Congress of Aquatic Macroinvertebrates, San Jose, Costa Rica.

Connelly, S. 2011. Monitoring of biodiversity and water resources in the Bellbird Biological Corridor. Mesoamerican Society for Biology and Conservation, Monteverde, Costa Rica.

Connelly, S., C.M. Pringle, S. Kilham P. Verburg, M.R. Whiles, K.R. Lips, J.C. Colon-Gaud. 2008. Changes in quality and quantity of stream algae and seston resulting from neotropical amphibian declines. Ecological Society of America, Milwaukee, WI.

Colón-Gaud C., M.R. Whiles, S.S. Kilham, K.R. Lips, C.M. Pringle, S. Connelly, S.D. Peterson. 2008. Macroinvertebrate production and food web structure in Panamanian headwater streams: Assessing responses to catastrophic amphibian declines. North American Benthological Society, Salt Lake City, UT.

Kilham, S.S., P. Verburg, C.M. Pringle, S. Connelly, M.R. Whiles, K.R. Lips. 2008. Comparisons of niche diversification in an upland neotropical stream food web pre- and post- frog extinction. Ecological Society of America, Milwaukee, WI.

Connelly, S., C.M. Pringle, M.R. Whiles, K.R. Lips, S. Kilham. 2007. Neotropical tadpole declines cause long-term changes in primary producer quality and quantity. Ecological Society of America, San Jose, CA.

Connelly, S., C.M. Pringle, R.J. Bixby, M.R. Whiles, K.R. Lips, R.Brenes, S. Kilham. 2006. Algal responses to tadpole extirpations in a Neotropical stream: Do short-term enclosure experiments predict long-term, whole-stream responses? North American Benthological Society, Anchorage, AK.

Verburg, P., S.S. Kilham, C.M. Pringle C.M, M.R. Whiles, S. Connelly S, J.C. Colon-Gaud, E. Griffith, H. Ross, W.K. Dodds. 2006. N cycling in an upland forest stream in Panama before and after the decline of a dominant amphibian community. International Conference on Applications of Stable Isotope Techniques to Ecological Studies, Honolulu, Hawaii.

Kilham, S.S., M. Hunte-Brown, C.M. Pringle, R. Bixby, S. Connelly, M.R. Whiles, K.R. Lips, J. Colon-Gaud, R. Brenes, S.D. Peterson, and C. Montgomery. 2006. Fractionation of stable isotope of nitrogen and carbon in Neotropical stream ecosystems. American Society of Limnology and Oceanography, Victoria, BC, Canada.

Connelly, S., C.M. Pringle, R.J. Bixby, M.R. Whiles, K.R. Lips, J.C. Colon-Gaud, R. Brenes, S. Kilham, M. Hunte-Brown. 2005. Neotropical amphibian declines affect stream ecosystem properties. North American Benthological Society, New Orleans. LA.

Peterson, S.D., J.C. Colon-Gaud, M.R. Whiles, M. Hunte-Brown, S. Connelly, S. Kilham, C.M. Pringle, K.R. Lips, and R. Brenes. 2005. Organic seston dynamics in highland neotropical streams: implications for stream-breeding amphibian declines. North American Benthological Society, New Orleans. LA.

Hunte-Brown, M., S. Kilham, M. Whiles, K. Lips, C. Pringle, C. Colon, R. Brenes, and S. Connelly. 2005. The effects of tadpole extirpation on stream foodweb structure and function in Upland Panama. North American Benthological Society, New Orleans. LA.

Hunte-Brown, M., S. Kilham, M.R. Whiles, K.R. Lips, C.M. Pringle, J.C. Colon-Gaud, R. Brenes, and S. Connelly. 2005. The role of tadpoles in foodweb structure and function in upland streams of Panama: The consequences of extinction. American Society of Limnology and Oceanography, Santiago de Compostela, Spain.

**Grants & Awards:**

Improving Teacher Quality Grant, University of Georgia 2017-2018, Co-Director (\$57,800)  
University of Georgia Center for Teaching and Learning Writing Fellow 2016-2017 (\$1000)  
University of Georgia Service Learning Fellow 2015-2016 (\$1000)  
University of Georgia Center for Teaching & Learning Technologies grant 2015 (\$3,100)  
Improving Teacher Quality Grant, University of Georgia 2015, Co-Director (\$56,000)

**University Service:**

- Search Committee, Lecturer & Undergraduate Program Coordinator (2017 & 2020)
- Co-Chair Search Committee, Lecturer & Undergraduate Program Coordinator (2015-2016)
- Ecology Undergraduate Committee (2015-2025)
- Faculty Admissions Committee (2016-2019)
- Academic Honesty Panel (2016-present)
- University International Council (2014-2022)
- Biological Sciences Curriculum Committee (2015- present)
- Facilities Committee (2013-2018)

**Guest Lectures, University of Georgia:**

Orientation to Biology Degree Programs (BIOL1990)  
Stream Ecology (ECOL8820)  
Applied LA Ecology (LAND4360)  
Conservation Biology (ECOL3530)  
Herpetology (ECOL4040)  
Principles of Conservation and Sustainable Development (ECOL6080)  
Natural History for Educators (ECOL6270)  
International Issues in Conservation (FANR2100).

**Invited Speaker:**

Hendrix College, Conroy, AR; Georgia Gwinnett College, Lawrenceville, GA; Environmental Protection Agency, GA; Evergreen State College, WA.; Georgia College and State University, GA; Cedar Shoals High School, Athens; Center for Latin American and Caribbean Studies, Athens; Clarke Middle School, Athens; Georgia Southern University, GA; Universal Unitarian Fellowship of Athens; University of Georgia Herpetological Society, UGA; South Rockdale Civic Association, GA.; Oconee River Audubon Society, Athens; University of Puerto Rico, Mayaguez, Puerto Rico; Zoo Atlanta, Ga.

**Peer Reviewer:**

Ecology; Freshwater Biology; Biotropica; Aquatic Biosystems; Hydrobiologia; Marine and Freshwater Research; Herpetological Conservation & Biology

**Awards:**

UGA DRC Outstanding Faculty Member	2022
Odum Outstanding Faculty Instructor of the Year	2022
Faculty Instructor of the Year, Odum School of Ecology	2016
Outstanding Teaching Faculty, University of Georgia	2016
Odum School of Ecology, Outstanding Doctoral Presentation	2007
University of Georgia, Graduate School Dissertation Completion Award	2007
University of Georgia, Certificate of Completion, Graduate School Teaching Portfolio Program	2007

**Professional Societies:**

Society for Freshwater Science; Ecological Society of America