

# DAVID STOKER

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## CONTACT INFORMATION

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## EDUCATION

**B.S. Ecology, *Cum Laude*, 2016**  
**University of Georgia**, Odum School of Ecology, Athens, GA, USA

**B.S. Mathematics, *In Progress***  
**University of Georgia**, Franklin College of Arts and Sciences, Athens, GA, USA

## PUBLICATIONS (In Preparation)

**Stoker, D.**, A.J. Falkner, K.M. Murray, A.K. Lang, T.R. Barnum, J. Hepinstall-Cymerman, M.J. Conroy, R.J. Cooper, and C.M. Pringle. Decomposition of terrestrial resource subsidies in headwater streams: does consumer diversity matter?

**Stoker, D.**, and C.J. Patrick. Using disequilibrium theory to determine where stream communities decouple from local environmental conditions.

Murray, K.M., **D. Stoker**, C.M. Pringle, and T. N. Simon. Evidence for context-dependent predator-prey interactions due to a third-party species: Inter-reach variation in the population size structure of a stream-dwelling caddisfly

Barnum, T.R., J.T. Wootton, R.J. Bixby, J.M. Drake, **D. Stoker**, C. Colon-Gaud, A.T. Rugenski, T.C. Frauendorf, S.J. Connelly, S.S. Kilham, M.R. Whiles, K.R. Lips, and C.M. Pringle. Mechanisms underlying a lack of functional compensation following a disease-driven amphibian decline in a Neotropical stream.

## GRANTS

2015 CURO Undergraduate Research Assistantship (\$1000)

## AWARDS

2015 Society for Freshwater Science Undergraduate Travel Award (\$600)  
Josh Laerm Memorial Outstanding Undergraduate Award (\$150)

2013 Thelma Richardson & Frank Golley Undergraduate Support Award (\$500)

## PRESENTATIONS (Professional Meetings)

2017 Patrick, C.J., and **D. Stoker**. Practical applications of meta-community theory in stream and river management. Annual Meeting of the Society for Freshwater Science, Raleigh, NC.

2015 **Stoker, D.**, A.J. Falkner, K.M. Murray, A.K. Lang, T.R. Barnum, J. Hepinstall-Cymerman, M.J. Conroy, R.J. Cooper, and C.M. Pringle. Decomposition of terrestrial resource subsidies in headwater streams: does consumer diversity matter? Annual Meeting of the Society for Freshwater Science, Milwaukee, WI.

**Stoker, D.**, A.J. Falkner, K.M. Murray, A.K. Lang, T.R. Barnum, J. Hepinstall-Cymerman, M.J. Conroy, R.J. Cooper, and C.M. Pringle. Decomposition of terrestrial resource subsidies in headwater streams: does consumer diversity matter? Annual Southeastern Ecology and Evolution Conference, Athens, GA.

2014 Barnum, T.R., J.T. Wootton, R.J. Bixby, J.M. Drake, C. Colon-Gaud, **D. Stoker**, A.T. Rugenski, T.C. Frauendorf, S.J. Connelly, S. S. Kilham, M.R. Whiles, and K.R. Lips. Examining why grazing mayflies do not functionally compensate for the top-down control of algal communities following disease-driven tadpole declines in a Neotropical stream. Annual Meeting of the Ecological Society of America, Sacramento, CA.

PRESENTATIONS  
(University Meetings)

2016 **Stoker, D.**, A.J. Falkner, K.M. Murray, A.K. Lang, T.R. Barnum, J. Hepinstall-Cymerman, M.J. Conroy, R.J. Cooper, and C.M. Pringle. Decomposition of terrestrial resource subsidies in aquatic ecosystems: does diversity matter? Odum School of Ecology Graduate Student Symposium, Athens, GA.

2015 **Stoker, D.**, A.J. Falkner, K.M. Murray, A.K. Lang, T.R. Barnum, J. Hepinstall-Cymerman, M.J. Conroy, R.J. Cooper, and C.M. Pringle. Decomposition of terrestrial resource subsidies in headwater streams: does consumer diversity matter? University of Georgia Center for Undergraduate Research Opportunities Annual Symposium, Athens, GA.

**Stoker, D.**, A.J. Falkner, K.M. Murray, A.K. Lang, T.R. Barnum, J. Hepinstall-Cymerman, M.J. Conroy, R.J. Cooper, and C.M. Pringle. Evaluating top-down and bottom-up regulation of leaf decomposition in forested headwater streams. Odum School of Ecology Graduate Student Symposium, Athens, GA.

RESEARCH  
EXPERIENCE

Jan. 2014 – **Undergraduate Thesis Research**  
May 2016 Advisors: Catherine M. Pringle, Ph.D.  
Jeffrey Hepinstall-Cymerman, Ph.D.  
Subject: Biodiversity of detritivore communities in relation to stream ecosystem functioning.  
Odum School of Ecology, University of Georgia

PROFESSIONAL  
EXPERIENCE

Jan. 2013 – **Lab Manager**  
July 2016 Odum School of Ecology, University of Georgia  
Supervisor: Catherine M. Pringle, Ph.D.  
Duties: Maintained the lab and inventoried equipment and samples; processed and analyzed samples for stoichiometry (C:N:P) and chlorophyll *a*; determined ash-free dry mass of leaf litter and algal samples; analyzed leaf litter samples for proximate lignin content; identified aquatic macroinvertebrates; assisted with fieldwork through the Coweeta and Luquillo Long-Term Ecological Research programs; other duties, as assigned.

- Jan. 2016 – **Lab Technician**  
 May 2016 Odum School of Ecology, University of Georgia  
 Supervisor: Amanda T. Rugenski, Ph.D.  
 Subject: Identified aquatic macroinvertebrates from Panamanian streams following disease-driven amphibian declines.
- Nov. 2014 – **Lab Technician**  
 Aug. 2015 Odum School of Ecology, University of Georgia  
 Supervisor: Andrea Silletti, M.S.  
 Duties: Filtered pond water column samples for macroinvertebrates; cleaned glassware; entered data; maintained *Daphnia* spp. stock and experimental populations; other duties, as assigned.
- Jan. 2014 – **Lab Technician**  
 April 2014 Odum School of Ecology, University of Georgia  
 Supervisor: James L. Wood, Ph.D. candidate  
 Duties: Processed and analyzed algae samples for chlorophyll *a* from urban Athens-Clarke County streams.
- Feb. 2013 – **Lab Technician**  
 Oct. 2013 Odum School of Ecology, University of Georgia  
 Supervisor: Thomas R. Barnum, Ph.D.  
 Duties: Entered gut content data for grazer taxa in Panamanian streams pre- and post-amphibian declines.
- May 2013 **Field Technician**  
 Odum School of Ecology, University of Georgia  
 Supervisor: Kelly M. Murray, M.S. student  
 Duties: Aided with laboratory experiments and the collection of larval *Phylloicus hansonii* in Trinidadian streams.

**PROFESSIONAL SKILLS**

Statistical Program R  
 Aquatic macroinvertebrate taxonomy  
 Stoichiometry processing  
 Stable isotope processing

**SOCIETY MEMBERSHIPS**

2014 – Society for Freshwater Science  
 Present  
 2013 – Ecological Society of America  
 Present