

# DAVID MURRAY-STOKER

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## EDUCATION

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### University of Toronto

Ph.D. Ecology & Evolutionary Biology  
Department of Ecology & Evolutionary Biology

*September 2018 - Present*

### University of Georgia

B.S. Ecology, *cum laude*  
Odum School of Ecology

*August 2011 - July 2016*

## PUBLICATIONS

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5. Murray-Stoker, D., and K. M. Murray-Stoker. 2020. Consistent metacommunity structure despite inconsistent drivers of assembly at the continental scale. *Journal of Animal Ecology* 89: 1678-1689. [Data & R Code]
4. Murray-Stoker, D. 2020. On the efficacy of restoration in stream networks: comments, critiques, and prospective recommendations. bioRxiv:611939, version 7. Peer-reviewed and recommended by Peer Community In Ecology doi: 10.24072/pci.ecology.100052 [Data & R Code]
3. Murray-Stoker, K. M., D. P. Batzer, D. Murray-Stoker, and J. V. McHugh. 2020. Shifts in the community composition of caddisflies (Insecta: Trichoptera) in a subtropical river over three decades. *Ecological Entomology* 45: 514-524.
2. Murray, K. M., D. Stoker, C. M. Pringle, and T. N. Simon. 2018. Is spatial variation in population size structures of a stream-dwelling caddisfly due to the altered effects of a predator by a third-party species? *Hydrobiologia* 820:65-77. [Data & R Code]
1. 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. 2017. Decomposition of terrestrial resource subsidies in headwater streams: Does consumer diversity matter? *Ecosphere* 8:e01868. [Data & R Code]

## MANUSCRIPTS (IN PREPARATION, REVIEW, OR REVISION)

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4. Murray-Stoker, K. M., A.C. Benke, K. Parsons, J. V. McHugh, D. Murray-Stoker, A. D. Rosemond, S. J. Wenger, and D. P. Batzer. Biomass declines in riverine invertebrate communities linked to climate-induced changes in flood regimes. *In Review at PNAS*
3. Murray-Stoker, K. M., D. Murray-Stoker, S. J. Wenger, A. D. Rosemond, J. V. McHugh, and D. P. Batzer. Long-term change in aquatic insect communities is characterized by functional redundancy and shifting influence of environmental drivers. *Target journal: Functional Ecology*
2. Barnum, T. R., J. T. Wootton, R. J. Bixby, J. M. Drake, D. Murray-Stoker, C. Colon-Gaud, A. T. Rugenski, T. C. Frauendorf, S. Connelly, S. S. Kilham, M. R. Whiles, K. R. Lips, and C. M. Pringle. Response of grazing insects to larval amphibian extirpation in a Neotropical stream: Changes in body size distribution and resource use but lack of functional redundancy. *Target journal: Ecology*
1. Dudley, M. P., K. Solomon, S. J. Wenger, R. Jackson, K. J. Elliott, C. F. Miniat, K. M. Eliason, E. F. Benfield, D. Murray-Stoker, A. Wilson, and C. M. Pringle. Ecosystem responses to experimental removal of a dominant riparian shrub in headwater streams. *Target journal: Ecological Applications*

## BOOK CHAPTERS

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1. Santangelo J. S., L. S. Miles, S. T. Breitbart, D. Murray-Stoker, L. R. Rivkin, M. T. J. Johnson, and R. W. Ness. 2020. Urban environments as a framework to study parallel evolution. In: *Urban Evolutionary Biology*. Edited by Marta Szulkin, Jason Munshi-South and Anne Charmantier: Oxford University Press. DOI: 10.1093/oso/9780198836841.003.0003

## MANUSCRIPTS

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1. Murray-Stoker, D. 2019. Functional diversity plays a role in driving beta diversity: Or does it? bioRxiv:594044. [Data & R Code]

## PRESENTATIONS

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4. 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. 2016. Decomposition of terrestrial resource subsidies in aquatic ecosystems: Does consumer diversity matter? Odum School of Ecology Graduate Student Symposium, Athens, GA. (Poster)
3. 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. 2015. Decomposition of terrestrial resource subsidies in headwater streams: Does consumer diversity matter? Annual Meeting of the Society for Freshwater Science, Milwaukee, WI. (Poster)
2. 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. 2015. Decomposition of terrestrial resource subsidies in headwater streams: Does consumer diversity matter? Annual Southeastern Ecology and Evolution Conference, Athens, GA. (Oral)
1. 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. 2014. 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. (Oral)

## HONORS & AWARDS

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- Rustom H. Dastur Graduate Scholarship in Ecology & Evolutionary Biology, 2018-Present
- University of Toronto Faculty of Arts & Science Program-Level Fellowship, 2018-Present
- Josh Laerm Memorial Outstanding Undergraduate Award, 2015

## GRANTS & FUNDING

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- CURO Undergraduate Research Assistantship, 2015 (\$1000)
- Society for Freshwater Science Undergraduate Travel Award, 2015 (\$600)
- Thelma Richardson & Frank Golley Undergraduate Support Award, 2013 (\$500)

## TEACHING EXPERIENCE

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- BIO205 Ecology: 2018, 2019
- BIO360 Biometrics I: 2019, 2020

## ACADEMIC SERVICE

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- UTM Equity, Diversity, and Elimination of Racial Discrimination Committee, 2020-Present
- UTM Biology Seminar Committee, 2019-2020
- UTM Biology Undergraduate Report Committee, 2019

## PROFESSIONAL EXPERIENCE

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**Research Assistant** May 2018 - August 2018  
*Department of Ecology & Evolutionary Biology - University of Toronto*

- Supervised by Marc T. J. Johnson, Ph.D.

**Research Assistant** February 2017 - April 2018  
*Odum School of Ecology - University of Georgia*

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**Lab Manager** January 2013 - July 2016  
*Odum School of Ecology- University of Georgia*

- Supervised by Catherine M. Pringle, Ph.D.

**Research Assistant** January 2016 - May 2016  
*Odum School of Ecology- University of Georgia*

- Supervised by Amanda T. Rugenski, Ph.D.

**Lab Technician** November 2014 - August 2015  
*Odum School of Ecology- University of Georgia*

- Supervised by Andrea Silletti, M.S.

**Field Technician** May 2013  
*Odum School of Ecology- University of Georgia*

- Supervised by Catherine M. Pringle, Ph.D.

## PROFESSIONAL AFFILIATIONS

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- Ecological Society of America (2013-Present)
- Society for the Study of Evolution (2019-Present)
- American Society of Naturalists (2018-Present)
- Canadian Society for Ecology & Evolution (2020-Present)
- American Society for Microbiology (2020-Present)
- Center for Open Science (2017-Present)