

DAVID MURRAY-STOKER

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EDUCATION

University of Toronto

September 2018 - Present

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

University of Georgia

August 2011 - July 2016

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

PUBLICATIONS

5. Murray-Stoker, D., and K. M. Murray-Stoker. *In press*. Consistent metacommunity structure despite inconsistent drivers of assembly at the continental scale. *Journal of Animal Ecology*. [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)

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. *Target journal: 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

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

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

PRESENTATIONS

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

- 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

- 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

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

ACADEMIC SERVICE

- UTM Biology Seminar Committee, 2019-2020
- UTM Biology Undergraduate Report Committee, 2019

PROFESSIONAL EXPERIENCE

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

- 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)