

David Murray-Stoker

Ph.D. Candidate, University of Toronto
Department of Ecology & Evolutionary Biology

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Education

University of Toronto, Toronto, ON, Canada 2018-present
Ph.D. Candidate, Ecology & Evolutionary Biology

University of Georgia, Athens, GA, USA 2011-2016
B.S. Ecology, *cum laude*

Publications

6. **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. DOI: [10.1111/1365-2656.13220](https://doi.org/10.1111/1365-2656.13220) | [Data & Code](#)
5. Santangelo J.S., Miles, L.S., Breitbart, S.T., **Murray-Stoker, D.**, Rivkin, L.R., Johnson, M.T.J. and Ness, R.W., 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 (2020). © Oxford University Press. DOI: [10.1093/oso/9780198836841.003.0003](https://doi.org/10.1093/oso/9780198836841.003.0003)
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: <https://doi.org/10.1101/611939> | [Data & 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. DOI: [10.1111/een.12822](https://doi.org/10.1111/een.12822)
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 thirdparty species? *Hydrobiologia* 820:65-77. DOI: [10.1007/s10750-018-3674-0](https://doi.org/10.1007/s10750-018-3674-0) | [Data & 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. DOI: [10.1002/ecs2.1868](https://doi.org/10.1002/ecs2.1868) | [Data & Code](#)

Manuscripts (In review)

2. **Murray-Stoker, D.**, and M.T.J. Johnson. Ecological consequences of urbanization on a legume-rhizobia mutualism. *In review at Oikos* - [Preprint](#)
1. 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. Mechanisms underlying lack of functional compensation by insect grazers after tadpole declines in a Neotropical stream. *In review at Limnology & Oceanography*

Honours & 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

Funding

Centre for Urban Environments Research Fund (\$2000)	2021
CURO Undergraduate Research Assistantship (\$1000)	2015
Society for Freshwater Science Undergraduate Travel Award (\$600)	2015
Thelma Richardson & Frank Golley Undergraduate Support Award (\$500)	2015

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)

Teaching

University of Toronto Mississauga

Teaching Assistant , Ecology (BIO205)	2018, 2019, 2020
Teaching Assistant , Biometrics I (BIO360)	2019, 2020, 2021

University of Toronto

Teaching Assistant , Ecosystem Structure & Function (ENV234)	2018
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Academic Service

Departmental Committees

UTM Equity, Diversity, and Inclusion Committee	2020-Present
Founding graduate student member	
U of T EEB Wellness Committee	2020-Present
UTM Biology Seminar Committee	2019-2020
UTM Biology Undergraduate Report Committee	2019

Mentoring

UTM Grad Connect Program	October 2020 - Present
Department of Biology	
University of Toronto Mississauga	
Mentee: Lina Hasan	

Reviewer for

Peer Community In Ecology, Proceedings of the Royal Society Series B: Biological Sciences

Professional Experience

Research Assistant	May 2018-August 2018
Department of Ecology & Evolutionary Biology	
University of Toronto	
Supervised by Marc T. J. Johnson, Ph.D.	
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 201
Odum School of Ecology	
University of Georgia	
Supervised by Andrea Silletti, M.S.	
Field Technician	May 2013
Odum School of Ecology -University of Georgia	

Society Memberships

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
Center for Open Science	2017-Present
Society for Open, Reliable, & Transparent Ecology & Evolution (SORTEE)	2020-Present