

# David Murray-Stoker

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

✉ [dstoker92@gmail.com](mailto:dstoker92@gmail.com)  [dmurraystoker](https://github.com/dmurraystoker)  [dmurraystoker](https://twitter.com/dmurraystoker)  [dmurraystoker.github.io/](https://github.com/dmurraystoker)

## 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*

**Gainesville State College**, Gainesville, GA, USA 2010-2011  
Prerequisites while dual-enrolled in high school and community college

## 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) | [Data & Code](#)
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 legumerhizobia mutualism. [Preprint](#) | *In review at Oikos*

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

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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

## Funding

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University of Toronto Ecology & Evolutionary Biology Research Grant (\$2000 CAD)	2021
American Society of Naturalist Student Research Award (\$2000 USD)	2021
Centre for Urban Environments Research Fund (\$2000 CAD)	2021
CURO Undergraduate Research Assistantship (\$1000 USD)	2015
Society for Freshwater Science Undergraduate Travel Award (\$600 USD)	2015
Thelma Richardson & Frank Golley Undergraduate Support Award (\$500 USD)	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

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*University of Toronto Mississauga*

<b>Teaching Assistant</b> , Ecology (BIO205)	2018, 2019, 2020
<b>Teaching Assistant</b> , Biometrics I (BIO360)	2019, 2020, 2021

*University of Toronto*

<b>Teaching Assistant</b> , Ecosystem Structure & Function (ENV234)	2018
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## Academic Service

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### *Departmental Committees*

UTM Equity, Diversity, and Inclusion Committee	2020-Present
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Founding graduate student member

Led the survey and report on Equity, Diversity, & Inclusion in the department

Designed the survey questionnaire

Used qualitative analyses to examine the state of the department

Drafted the summary report of the survey

Survey used to identify actionable items and to set a baseline for future surveys

U of T EEB Wellness Committee	2020-Present
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-Equity, Diversity, & Inclusion Subcommittee

UTM Biology Seminar Committee	2019-2020
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UTM Biology Undergraduate Report Committee	2019
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### *Mentoring*

<b>UTM Grad Connect Program</b>	October 2020 - Present
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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

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<b>Research Assistant</b>	May 2018-August 2018
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Department of Ecology & Evolutionary Biology

University of Toronto

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

<b>Lab Manager</b>	January 2013-July 2016
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Odum School of Ecology

University of Georgia

Supervised by Catherine M. Pringle, Ph.D.

<b>Research Assistant</b>	January 2016-May 2016
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Odum School of Ecology

University of Georgia

Supervised by Amanda T. Rugenski, Ph.D.

<b>Lab Technician</b>	November 2014-August 201
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Odum School of Ecology  
University of Georgia  
Supervised by Andrea Silletti, M.S.

**Field Technician**

Odum School of Ecology -University of Georgia

May 2013

## **Society Memberships**

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