

Chris Brimacombe

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Education

University of Toronto (UofT) PhD in ecology and evolutionary biology Supervisor: Fortin MJ	Toronto, Ontario 2019–Current
University of Western Ontario (UWO) BSc (Hons) in applied mathematics <i>with distinction</i> Supervisors: Zamir M and Corless R	London, Ontario 2015–2018
University of Ottawa BSc (Hons) in biology with a specialization in ecology Supervisors: Leroux S and Findlay CS	Ottawa, Ontario 2008–2012

Honours and Awards

Ontario Graduate Scholarship (\$15,000)	2023
Queen Elizabeth II Graduate Scholarship (\$15,000)	2022
Ontario Graduate Scholarship (\$15,000)	2021
A. Murray Fallis Graduate Award In Zoology (\$3,617)	2020
Minns Family Bursary In Ecology and Evolution (\$196)	2020
Canada Graduate Scholarship-Master's (\$22,333)	2020
Frederick P. Ide Award In Ecology And Evolutionary Biology (\$870)	2019
Best poster at Undergraduate Applied Math Research conference (\$100)	2018
UWO Science undergraduate pre-thesis award (\$4,500)	2016

Publications

Under Review

No strong evidence that modularity, specialization, or nestedness are linked to seasonal climatic variability in empirical bipartite networks on a global scale

Brimacombe C, Bodner K, Michalska-Smith M, Gravel D, and Fortin MJ

Global Ecology and Biogeography

Published

How network size strongly determines trophic specialization: a technical comment on Luna et al. (2022)

Brimacombe C, Bodner K, and Fortin MJ

Ecology Letters, 2022, 25(8): 1914–1916, doi:10.1111/ele.14029

Why body size matters: how larger fish ontogeny shapes ecological network topology

Bodner K, Brimacombe C, Fortin MJ, and Molnár P

Oikos, 2022, 2022(3):e08569, doi: 10.1111/oik.08569

Computation and applications of Mathieu functions: A historical perspective

Brimacombe C, Corless RM, and Zamir M

SIAM Review, 2021, 63(4): 653–720, doi: 10.1137/20M135786X

Network ecology in dynamic landscapes

Fortin MJ, Dale MRT, and [Brimacombe C](#)

Proceedings of the Royal Society B, 2021, 288(1949): 20201889, doi: 10.1098/rspb.2020.1889

Inferred seasonal interaction rewiring of a freshwater stream fish network

[Brimacombe C](#), Bodner K, and Fortin MJ

Ecography, 2021, 44(2): 219–230, doi: 10.1111/ecog.05452

Ten simple rules for tackling your first mathematical models: A guide for graduate students by graduate students

Bodner K, [Brimacombe C](#), Chenery ES, Greiner A, McLeod AM, Penk SR, and Vargas Soto JS

PLOS Computational Biology, 2021, 17(1): e1008539, doi: 10.1371/journal.pcbi.1008539

Legislative correlates of the size and number of protected areas in Canadian jurisdictions

Leroux SJ, [Brimacombe C](#), Khair S, Benidickson J, and Findlay CS

Biological Conservation, 2015, 191: 375–382 doi: 10.1016/j.biocon.2015.07.016

Book Chapters

Network framework for forest management

Filotas É, Aquilué N, [Brimacombe C](#), Drapeau P, Keeton W, Kneeshaw D, Messier C, Witté I, and Fortin MJ

Springer, 2022

Teaching (TA)

Ecology and Evolutionary Biology (UofT)

2019–2021

EEB365H1 S: Topics in Applied Conservation Biology

Ecology and Evolutionary Biology (UofT)

Fall 2019

EEB430H: Modeling in Ecology and Evolutionary Biology

Department of Biology (UWO)

2014–2015

BIO2244: Analysis and Interpretation of Biological Data

Talks and Posters

Talk: Do bipartite networks exhibit structural patterns across large spatial extents?

Canadian Society for Ecology and Evolution Annual Meeting, 2021

Talk: The importance of ecological networks

Atwood graduate research conference, 2021

Poster: Seasonal interactions and rewiring in freshwater stream fish networks

Ecological Society of America, 2020

Poster: Blood flow in elliptic tubes

UWO Undergraduate Applied Math Research Conference, 2018

Poster: Blood flow in elliptic tubes

UWO Undergraduate Applied Math Research Conference, 2017

Reviewer

Methods in Ecology and Evolution

Skills

Programming: Maple, R, Matlab, Python, and C++

Document presentation: Microsoft Office, L^AT_EX, and the Adobe suite