

Christopher Jochen Greyson-Gaito

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Professional Positions

McMaster University

HAMILTON, CANADA

Postdoctoral Researcher

November 2023 – Present

Supervisors: Dr. Matheus Grasselli & Dr. Gail Wolkowicz

Education

University of Guelph

GUELPH, CANADA

Doctor of Philosophy in Ecology

September 2018 – September 2023

Thesis: "Resilience across complex systems in a variable world"

Supervisor: Dr. Kevin McCann

University of Guelph

GUELPH, CANADA

Master of Science in Ecology

January 2016 – August 2018

Thesis: "Flexibility of the spruce budworm - parasitoid food web"

Supervisors: Dr. Kevin McCann & Dr. Eldon Eveleigh

GPA: 89.6%

University of British Columbia

VANCOUVER, CANADA

Bachelor of Science (Honours) in Ecology

September 2010 – May 2014

Thesis: "Access to food drives movement in the Arctic woolly bear caterpillar,

Gynaephora groenlandica (Wocke) (Lepidoptera: Lymantriidae)"

Supervisors: Dr. Greg Crutsinger & Dr. Greg Henry

GPA: 87.2% September 2010 – April 2014

Warwickshire College

LEAMINGTON SPA, U.K.

International Baccalaureate Diploma

September 2008 – May 2010

Grades: 37/45 overall

Publications

Christopher J. Greyson-Gaito, Gabriel Gellner, Kevin S. McCann. 2023. Life history speed, population disappearances, and noise-induced ratchet effects. *Proceedings of the Royal Society B: Biological Sciences* 290:20222149.

Christopher J. Greyson-Gaito, Sarah J. Dolson, Glen Forbes, Rosanna Lamb, Wayne E. MacKinnon, Kevin S. McCann, M. Alex Smith, Eldon S. Eveleigh. 2022. Phylogenetic community structure and stable isotope analysis of the parasitoid community associated with Eastern spruce budworm, *Choristoneura fumiferana* (Lepidoptera: Tortricidae). *Agricultural and Forest Entomology*. 24(4):476-486.

Marie K. Gutgesell, Kevin S. McCann, Gabriel Gellner, Kevin Cazelles, **Christopher J. Greyson-Gaito**, Carling Bieg, Matthew M. Guzzo, Connor P. K. Warne, Charlotte Ward, Reilly F. O'Connor, Alexa M. Scott, Brandon C. Graham, Emily J. Champagne, Bailey C. McMeans. 2022. On the dynamic nature of omnivory in a changing world. *BioScience* 72:416430.

Christopher J. Greyson-Gaito, Kevin S. McCann, Jochen Fründ, Christopher J. Lucarotti, M. Alex Smith, Eldon S. Eveleigh. 2021. Parasitoid community responds indiscriminately to fluctuating spruce budworm and other caterpillars on balsam fir. *The Canadian Entomologist* **153**(4):482-496.

Christopher J. Greyson-Gaito, Timothy J. Bartley, Karl Cottenie, Will M.C. Jarvis, Amy E.M. Newman, Mason Stothart. 2020. Into the wild: microbiome transplant studies need broader ecological reality. *Proceedings of the Royal Society B: Biological Sciences* **287**(1921):20192834.

Matthew A Barbour, **Christopher J. Greyson-Gaito**, Arezoo Sootodeh, Brendan Locke, Jordi Bascompte. 2020. Loss of consumers constrains phenotypic evolution in the resulting food web. *Evolution Letters* **4**(3):266-277.

Mariano A. Rodriguez-Cabal, Noelia Barrios-Garcia, **Christopher J. Greyson-Gaito**, Heather L. Slinn and Gregory M. Crutsinger. 2019. Non-native ungulates triggered indirect impacts on foliar arthropods, but not on soil function. *Biological Invasions* **21**(10):1-8.

Christopher J. Greyson-Gaito, Matthew A. Barbour, Mariano A. Rodriguez-Cabal, Gregory M. Crutsinger, Gregory H. R. Henry. 2016. Freedom to move: Arctic caterpillar (Lepidoptera) growth rate increases with access to new willows (Salicaceae). *The Canadian Entomologist* **148**(6):673-682.

Book Chapters

Gabriel Gellner, Kevin S. McCann, **Christopher J. Greyson-Gaito**. 2020. The Synergistic Effects of Interaction Strength and Lags on Ecological Stability (Chapter). *Theoretical Ecology: Concepts and Applications*. Edited by Kevin S. McCann and Gabriel Gellner. Oxford University Press. Oxford, United Kingdom.

Scholarships and Awards

Canadian Society for Ecology and Evolution	Jnue 2023
Excellence in Doctoral Research (Runner up)	

University of Guelph	September 2021-August 2022
Ontario Graduate Scholarship (\$15,000)	

Natural Sciences and Engineering Research Council of Canada	September 2018-August 2021
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Alexander Graham Bell Canada Graduate Scholarship-Doctoral (CGS-D) (\$105,000)

University of Guelph	March 2018
André Auger Citizenship Award	

University of Nevada - Reno	September 2018
Graduate Dean's Merit Scholarship - Declined (\$10000 USD)	

Royal Canadian Geographical Society	September 2017
Graduate Research Scholarship (\$2500)	

University of Guelph	September 2017-August 2018
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Queen Elizabeth II Graduate Scholarship in Science and Technology (\$15,000)	
Elgin Card Scholarship in Terrestrial Animal Ecology (\$4000)	October 2016
Arthur D. Latornell Travel Scholarship (\$400)	May 2016
University of Guelph	January 2016 - December 2017
Graduate Tuition Scholarship (\$16000)	
Natural Sciences and Engineering Research Council of Canada	May - August 2014
Undergraduate Student Research Award (\$7200)	
Mary and Joseph Bryant Scholarship (\$825)	September 2013
UBC Biodiversity Research: Integrative Training & Education	May - August 2013
Undergraduate Student Research Award (\$6263)	
Natural Sciences and Engineering Research Council of Canada	May - August 2012
Undergraduate Student Research Award (\$7200)	
Go Global International Learning Programs Award (\$1500)	May - August 2011
President's Entrance Scholarship (\$2500)	September 2010

Conference Presentations

Christopher J. Greyson-Gaito*, Aaron Delaporte, Alfons Weersink, Kevin S. McCann. Resilience of farms to multi-dimensional noise. Canadian Society for Ecological-Economics Annual Conference, 11-13 October 2023, Toronto, Ontario.

Christopher J. Greyson-Gaito*, Jacob Wilde, Emma Allen-Vercoe, Cortland Griswold, Kevin McCann. Lysogenic bacteriophage as a gene reservoir in gut ecosystems (Poster). Ecological Society of America and Canadian Society for Ecology & Evolution Joint Conference, 14-19 August 2022, Montréal, Québec.

Christopher J. Greyson-Gaito*, Jacob Wilde, Emma Allen-Vercoe, Cortland Griswold, Kevin McCann. Lysogenic bacteriophage as a gene reservoir in gut ecosystems (Poster). Canadian Society of Microbiologists Annual Conference, 26-29 June 2022, Guelph, Ontario

Christopher J. Greyson-Gaito*. Resilience of farms to multi-dimensional noise. Ecological-Economics Academy, Canadian Society for Ecological-Economics, 27-28 May 2022, Victoria, British Columbia.

Christopher J. Greyson-Gaito*, Gabriel Gellner, Kevin S. McCann. Sudden population disappearances in a reddened world. Canadian Society for Ecology and Evolution Meeting, 15-20 August 2021, Vancouver, British Columbia.

Christopher J. Greyson-Gaito*, Timothy J. Bartley, Karl Cottenie, Will M.C. Jarvis, Amy E.M. Newman, Mason Stothart. Into the wild: microbiome transplant studies need broader ecological reality. Second International Conference on Holobionts, 8-10 May 2019, Montréal, Québec.

Christopher J. Greyson-Gaito*, Eldon S. Eveleigh, Kevin S. McCann. Flexibility of the spruce budworm -parasitoid food web in response to spruce budworm density fluctuations. Canadian Society for Ecology and Evolution Meeting, 19-21 July 2018, University of Guelph, Guelph, Ontario.

Christopher J. Greyson-Gaito*, Kevin S. McCann. Interaction of an explicit and an implicit time delay in a one predator-two prey system (Poster). Living on the Precipice, Waterloo Institute for Complexity and Innovation spring conference, 16-17 May 2017, University of Waterloo, Waterloo, Ontario.

Matthew Barbour*, **Christopher Greyson-Gaito**, Brendan Lock, Arezoo Sotoodeh, Erik Jules, Gregory Crutsinger. Food-web complexity reduces variation in herbivore fitness among host-plant genotypes (Poster). Ecological Society of America Annual Meeting, 9-14 August 2015, Baltimore, Maryland.

Research Experience

Schuur Lab, Northern Arizona University FLAGSTAFF, UNITED STATES OF AMERICA

Research Assistant *May 2015 – November 2015*

Changes in carbon cycling in subarctic tundra ecosystems as a result of warming temperatures and permafrost thaw.

Rodriguez-Cabal Lab, Universidad del Comahue BARILOCHE, ARGENTINA

Volunteer Research Assistant *January 2015 – March 2015*

Consequences of the loss of native species and the addition of invasive species to the populations, communities and ecosystem functioning of temperate forests in Patagonia.

Crutsinger Lab, University of British Columbia VANCOUVER, CANADA

Volunteer Research Assistant *January 2014 – December 2014*

Food-web complexity reduces variation in herbivore fitness among host-plant genotypes

Tundra Ecology Lab, University of British Columbia VANCOUVER, CANADA

Research Assistant *May 2012 – August 2014*

The ecological and evolutionary consequences of climate change in a High Arctic tundra ecosystem.

Teaching Experience

Writing Services, McLaughlin Library, University of Guelph GUELPH, CANADA

Writing Support Teaching Assistant *November 2021 – August 2023*

Writing in the Sciences: Storytelling in Science Writing. McLaughlin Library GUELPH, CANADA

Online module designer *May 2021 – August 2021*

Biol 3060 - Populations, Communities, Ecosystems. University of Guelph GUELPH, CANADA

Teaching Assistant *January 2021 – April 2021*

Writing in the Sciences: A Song of Ice and Fire. McLaughlin Library GUELPH, CANADA

Volunteer workshop designer and presenter	<i>September 2018 – September 2019</i>
Writing Services, McLaughlin Library, University of Guelph	GUELPH, CANADA
Writing Support Teaching Assistant	<i>September 2017 – April 2018</i>
Biology 1070 - Discovering Biodiversity, University of Guelph	GUELPH, CANADA
Teaching Assistant	<i>January 2017 – April 2017</i>
Biology 2060 - Ecology, University of Guelph	GUELPH, CANADA
Teaching Assistant	<i>September 2016 – December 2016</i>

Community Service

Alliance for Just Money U.S.A	U.S.A
Volunteer	<i>January 2021 - Present</i>
Co-chair of the Diversity, Equity, and Inclusion committee.	
University of Guelph - Integrative Biology Holiday Party Auction	GUELPH, CANADA
Organiser	<i>December 2016, 2017, 2018</i>
Initial creation of and continued organising of annual Integrative Biology Holiday Party Auction. Raising funds for a variety of charities.	
University of Guelph - Integrative Biology Graduate Student Seminar	GUELPH, CANADA
Organiser	<i>September 2018 – March 2020</i>
Organising of weekly graduate seminars in the department.	
University of Guelph - Integrative Biology Evelyn Pielou Discussion Group	GUELPH, CANADA
Co-organiser	<i>September 2016 – December 2020</i>
Organising of weekly discussion topics and maintenance of Pielou listserv and web-page.	
University of Guelph - Integrative Biology Graduate Curriculum Committee	GUELPH, CANADA
Graduate Student Representative	<i>September 2016 – April 2017</i>
Providing graduate student perspectives in the improvement of the IB Graduate Curriculum.	
McMaster Children and Youth University - Guelph Chapter	GUELPH, CANADA
Volunteer	<i>September 2016 – April 2017</i>
Designing and dissemination of a workshop entitled "Backyard Biodiversity".	
University of Guelph Let's Talk Science	GUELPH, CANADA
Volunteer	<i>January 2016 – December 2016</i>
Science, Technology, Engineering, and Mathematics outreach in local schools.	
UBC International Service Learning Placement	MONTEZUMA, COSTA RICA
Internship	<i>May 2011 – August 2011</i>
Outreach for and improving the local recycling centre.	

Skills

Technical specialties: Julia *intermediate*, R *intermediate*, L^AT_EX *intermediate*, HTML & CSS *beginner*
