

## Dr. Kiyoko Gotanda

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Brock University  
Department of Biological Sciences  
1812 Sir Isaac Brock Way  
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<http://www.kiyokogotanda.com>



### ACADEMIC POSITIONS

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2021–now	Assistant Professor, Brock University
2022–now	Affiliated Professor, Universidad San Francisco de Quito
2020–2021	Postdoctoral Fellow, Université de Sherbrooke
2019–2020	Visiting Research Fellow; Univ. of Cambridge
2016–2020	Research Fellow in the Sciences at Clare Hall; Univ. of Cambridge
2017–2019	Banting Postdoctoral Fellow; Univ. Of Cambridge
2016–2017	Le Fonds Québécois de la Recherche sur la Nature et les Technologies Postdoctoral Fellow; Univ. of Cambridge
2016–2017	Gibbs Travelling Research Fellow; Newnham College; Univ. of Cambridge
2010	Visiting Researcher; Macquarie University

### EDUCATION

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2016	Ph.D. in Biology; McGill University
2009	BSc, First Class Honours; McGill University

### PUBLICATIONS

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I have edited one special issue, and I have published 33 peer reviewed manuscripts for twelve of which I am first or co-first author and three of which I am senior or co-senior author.

Google Scholar – 1553 citations, h-index = 15; retrieved July 28, 2022

Web of Science – 1077 citations, h-index = 14; retrieved July 28, 2022

\*Authors contributed equally to work; *Graduate student co-author*; Undergraduate co-author

#### Special Issues

Editors: **Gotanda, K. M.**, Hendry, A. P., Svensson, E. I. (2017). Special Theme Issue: Human influences on evolution, and the ecological and societal consequences. *Philosophical Transactions of the Royal Society – B* 372(1712)

Media coverage: [McGill University](#), [Science Daily](#), [SciWorthy](#)

#### Peer Reviewed

33. Verrelli, B. C., Alberti, M., Des Roches, S., Harris, N. C., Hendry, A. P., Johnson, M. T. J., Savage, A. M., Charmantier, A. \*, **Gotanda, K. M.** \*, Govaert, L. \*, Miles, L. S. \*, Rivkin, L. R. \*, Winchell, K. M. \*, Brans, K. I., Correa, C., Diamond, S. E., Fithugh, B., Grimm, N. B., Hughes, S., Marzluff, J. M., Munshi-South, J., Rojas, C., Santangelo, J. S., Schell, C. J., Schweitzer, J. A., Szulkin, M., Urban, M. C., Zhou, Y., Ziter, C. (accepted) A global horizon scan for urban evolutionary ecology. *Trends in Ecology and Evolution* \*Theme leader (led development, writing, and editing of themes)

32. Heckley, A. M., Pearce, A. E., **Gotanda, K. M.**, Hendry, A. P., Ole, K. B. (accepted) Compiling forty years of guppy research to investigate the factors contributing to (non)parallel evolution. *Journal of Evolutionary Biology* MS: JEB-2021-00327
31. Thurman, T.J., Palmer, T.M., Kolbe, J.J., Askary, A., **Gotanda, K.M.**, Lapiedra, O., Kartzinel, T.R., Man in't Veld, N.A., Revell, L.J., Wegener, J., Schoener, T.W., Spiller, D.A., Losos, J.B., Pringle, R.M.P., Barrett, R.D.H. (conditionally accepted) Predicting evolutionary change in response to novel ecological interactions: a field experiment with *Anolis* lizards. *The American Naturalist* MS# 60977
30. Sanderson, S., Beausoleil, M., O'Dea, R. E., Wood, Z. T., Correa, C., Frankel, V., Gorné, L. D., Haines, G. E., Kinnison, M. T., Oke, K. B., Pelletier, F., Pérez-Jvostev, F., Reyes-Corral, W. D., Ritchot, Y., Sorbara, F., **Gotanda, K. M.**<sup>\*,§</sup>, Hendry, A. P.<sup>\*</sup> (2022) The pace of modern life, revisited. *Molecular Ecology* 31(4): 1028-1043 doi.org/10.1111/mec.16299 <sup>§</sup>Corresponding author
- Media Coverage: [Wired Magazine](#), [BBC News Day \(audio\)](#), [Brock News](#), [Ars Technica](#), [McGill Science Direct](#), [News Concerns](#),
29. Santangelo, J., Ness, R.; Cohan, B.; Fitzpatrick, C.; Innes, S.; Koch, S.; Miles, L.; Munim, S.; Peres-Neto, P.; Prashad, C.; Tong, A.; **Gotanda, K. M.**; Johnson, M. T. J. + 275 co-authors (2022) Global urban environmental changes drives adaptation in white clover. *Science* 375(6586): 1275-1281 doi.org/10.1126/science.abk0989
- Media Coverage: [Brock News](#), [Yahoo News](#), [University of Toronto](#), [Knowable Magazine](#), [The Weather Network](#), [Newsweek](#), [Scientific American](#), [CBC](#), [CTV](#), [Scoop](#), [Environmental News Network](#), [El País](#), [Capital Outlook](#), [Newswise](#), [Mirage News](#), [Science Direct](#), [EurekaAlert](#), [Courthouse News Service](#), [Natural History Museum London](#), [Bioengineer.org](#), [Phys.org](#), [GuardianMag](#),
28. Lever, D., Rush, L. V., Thorogood, R., **Gotanda, K. M.** (2022) Darwin's finches have taste preferences, but not for human foods. *Royal Society Open Science* 9(1): 21198 doi.org/10.1098/rsos.211198
27. Kamath, A., Herrmann, N. C., **Gotanda, K. M.**, Shim, K., LaFond, J., Cottone, G., Falkner, H., Campbell, T. S., Stuart, Y. E. (2021) Character displacement in the midst of background evolution in island populations of *Anolis* lizards: a spatiotemporal perspective. *Evolution* 74(10): 2250-2264 doi: 10.1111/evo.14079
26. **Gotanda, K. M.** (2020) Human influences on antipredator behaviour in Darwin's finches. *Journal of Animal Ecology* 89(2): 614-622 doi: 10.1111/1365-2656.13127
- Media Coverage: [CNN](#), [MSN](#), [Cambridge University](#), [EurekaAlert!](#), [Phys.org](#), [British Ecological Society](#), [Sciglow.com](#), [BirdWatching](#), [Madison Magazine](#), [KXLY](#), [NewsBeezer](#), [ScienceDaily](#), [Alpha Galileo](#), [Laboratory Equipment](#), [Channel 3000](#), [VRT NWS \(in Flemish\)](#), [Yahoo \(in French\)](#), [dtyt \(in Spanish\)](#), [Siglo XXI \(in Spanish\)](#)
25. Carvajal-Endara, S., Hendry, A. P., Emery, N. C., Neu, C. P., Carmona, D., **Gotanda, K. M.**, Davies, T. J., Chaves, J., Johnson, M. T. J. (2020) The ecology and evolution of seed predation by Darwin's finches on *Tribulus cistoides* in the Galápagos Islands. *Ecological Monographs* 90(1): e01392 doi: 10.1002/ecm.1392
- \*\*F1000 Prime recommended.
24. Montiglio, P. O.\* , **Gotanda, K. M.\***, Kratochwil, C.F.\* , Laskowski, K. L.\* , Farine, D. R.\* (2020) Hierarchically embedded interaction networks represent a missing link in the study of

behavioral and community ecology. *Behavioural Ecology* 31(2): 279-286 doi: 10.1093/beheco/arz168

23. **Gotanda, K. M.**, Pack, A., Leblond, C., Hendry, A. P. (2019) Do replicates of independent guppy lineages evolve similarly in a predator-free laboratory environment? *Ecology and Evolution* 9: 36-51 doi: 10.1002/ece3.4585
22. Knutie, S. A., Chaves, J. A., **Gotanda, K. M.** (2019) Human activity can influence the gut microbiota of Darwin's finches in the Galapagos Islands. *Molecular Ecology* 28(9): 2441-2450 doi: 10.1111/mec.15088
- Media Coverage: [EurekaAlert!](#), [Science Daily](#), [Phys.org](#), [SINC \(in Spanish\)](#), [La Razon \(in Spanish\)](#), [La Vanguardia \(in Spanish\)](#), [Madrid \(in Spanish\)](#)
21. Pringle, R. M., Kartzinel, T. R., Palmer, T. M., Thurman, T. J., Fox-Dobbs, K., Xu, C. C. Y., Hutchinson, M. C., Coverdale, T. C., Daskin, J. H., Evangelista, D. A., **Gotanda, K. M.**, Man in 't Veld, N., Wegener, J. E., Kolbe, J. J., Schoener, T. W., Spiller, D. A., Losos, J. B., Barrett, R. D. H. (2019) Predator-induced collapse of niche structure and species coexistence. *Nature* 570: 58-74 doi: 10.1038/s41586-019-1264-6
- \*\*F1000 Prime recommended.
- Media Coverage: [Nature Ecology & Evolution](#), [Anole Annals](#), [EurekaAlert!](#), [Science Daily](#), [Phys.org](#), [PBS](#), [PNAS Journal Club](#), [Pulse News](#), [Nature Asia \(in Korean\)](#), [Agence France-Presse](#), [Nature](#), [Japan Times](#), [Mirage News](#), [RTL](#), [France 24](#)
20. Berger-Tal, O., Greggor, A. L., Macura, B., Adams, C., Blumenthal, A., Bouskila, A., Candolin, U., Doran, C., **Gotanda, K. M.**, Price, C., Putman, B., Segoli, M., Snijders, L., Wong, B. B. M., Blumstein, D. T. (2019) Systematic reviews and maps as tools for applying behavioral ecology to management and policy. *Behavioral Ecology* 30(1): 1-8 doi: 10.1093/beheco/ary130
19. De León, L. F., Sharpe, D. M. T., **Gotanda, K. M.**, Raeymaekers, J. A. M., Chaves J. A., Hendry, A. P., Podos, J. (2018) Urbanization erodes niche segregation in Darwin's finches. *Evolutionary Applications* 12(7): 1329-1343 doi: 10.1111/eva.12721
- Media coverage: [PBS](#), [phys.org](#), [El Comercio](#), [Life in the City](#), [Naked Science \(in Russian\)](#)
18. Knutie, S. A.\* and **Gotanda, K. M.\*** (2018) A non-invasive method to collect fecal samples from wild birds for microbiome studies. *Microbial Ecology* 76(4): 851-855 doi: 10.1007/s00248-018-1182-4
17. Theodosopoulos, A. N. and **Gotanda, K. M.** (2018) Death of a Darwin's Finch: a consequence of anthropogenic debris? *The Wilson Journal of Ornithology* 130(4): 1023-1028 doi: 10.1676/17-00050
16. Michel, A. J., Ward, L. M., Goffredi, S. K., Dawson, K., Baldassarre, D. T., Brenner, A., **Gotanda, K. M.**, McCormack, J. E., Mullin, S., O'Neill, A., Tender, G., Uy, J. A. C., Yu, K., Orphan, V. J., Chaves, J. A. (2018) The gut of the finch: uniqueness of the gut microbiome of the Galápagos vampire finch. *Microbiome* 6(167): 1-14 doi: 10.1186/s40168-018-0555-8
- Media coverage: [The Ethogram](#)
15. De Lira, J. J. P. R., Pérez-Jvostov, F., **Gotanda, K. M.**, Kou-Giesbrecht, S., Pease, S. K., Jackson, M., Jersch, S., Hendry, A. P. (2018) Testing for whole-organism trade-off between natural and sexual selection: are the male guppies preferred by females more likely to be consumed by predators? *Evolutionary Ecology Research* 19: 441-453
14. Siepielski, A. M., Morrissey, M. B., Buoro, M., Carlson, S. M., Caruso, C. M., Clegg, S. M., Coulson, T., DiBattista, J., **Gotanda, K. M.**, Francis, C. D., Hereford, J., Kingsolver, J. G.,

Augustine, K. E., Kruuk, L. E. B., Martin, R. A., Sheldon, B. C., Sletvold, N., Svensson, E. I., Wade, M. J., MacColl, A. D. C. (2017). Precipitation drives global variation in natural selection. *Science* 355(6328): 959–962 doi: 10.1126/science.aag2773

\*\*F1000 Prime recommended.

Media coverage: [Newswise](#), [El Confidencial](#), [Phys.org](#), [Scientias](#), [Xinhua](#)

13. Alberti, M., Correa, C. Marzluff, J. Hendry, A. P., Palkovacs, E. P., **Gotanda, K. M.**, Hunt, V. Apgar, T. M., Zhou, Y. (2017). Global urban signatures of phenotypic change in animal and plant populations. *Proceedings of the National Academy of Sciences* 114(34): 8951–8956 doi: 10.1073/pnas.1606034114

Media coverage: [BBC](#), [EurekaAlert](#), [Yahoo! News](#), [Nature World News](#), [The Times of India](#), [Tech Times](#), [Popular Mechanics](#), [Ensia](#), [Science World Report](#), [PNAS](#)

12. Hendry, A. P., **Gotanda, K. M.**, Svensson, E. I. (2017). Human influences on evolution, and the ecological and societal consequences. *Philosophical Transactions of the Royal Society – B* 372(1712): 20160028 doi: 10.1098/rstb.2016.0028

11. **Gotanda, K. M.**, Correa, C., Turcotte, M. M., Rolshausen, G., Hendry, A. P. (2015) Linking macro–trends and micro–rates: re–evaluating micro–evolutionary support for Cope’s Rule. *Evolution* 69(5): 1345–1354 doi: 10.1111/evo.12653

10. **Gotanda, K. M.**, Sharpe, D. M. T., De León, L. F. (2015). Galapagos Mockingbird preys on an invasive mammal. *The Wilson Journal of Ornithology* 127(1): 138–141 doi: 10.1676/14–055.1

9. **Gotanda, K. M.** and Hendry, A. P. (2014). Using adaptive traits to consider potential consequences of temporal variation in selection: male guppy colour through time and space. *Biological Journal of the Linnean Society* 112(1): 108–122 doi: 10.1111/bij.12261

8. Siepielski, A. M.\*, **Gotanda, K. M.\***, Morrissey, M. B., Diamond, S. E., DiBattista, J. D., Carlson, S. M. (2013). The spatial patterns of directional phenotypic selection. *Ecology Letters* 16(11): 1382–1392 doi: 10.1111/ele.12174

\*\*F1000 Prime recommended.

7. **Gotanda, K. M.**, Delaire, L. C., Raeymaekers, J. A. M., Pérez–Jvostov, F., Dargent, F., Bentzen, P., Scott, M. E., Fussmann, G. F., Hendry, A. P. (2013). Adding parasites to the guppy–predation story: insights from field surveys. *Oecologia* 172(1): 155–166 doi: 10.1007/s00442–012–2485–7

6. **Gotanda, K. M.**, Reardon, E. E., Murphy, S. M. C., Chapman, L. J. (2012). Critical swim speed and fast–start response in an African Cichlid: convergent performance in divergent oxygen regimes. *Canadian Journal of Zoology* 90(5): 545–554 doi: 10.1139/z2012–019

5. Haller, B. C., De León, L. F., Rolshausen, G., **Gotanda, K. M.**, Hendry, A. P. (2012). Magic traits: distinguishing the important from the trivial. *Trends in Ecology & Evolution* 27(1): 5–6 doi: 10.1016/j.tree.2011.09.005

4. **Gotanda, K. M.**, Reardon, E. E., Chapman, L. J. (2011). Hypoxia and behaviour in a male African cichlid. *Journal of Fish Biology* 78(7): 2085–2092 doi: 10.1111/j.1095–8649.2011.02996.x

3. **Gotanda, K. M.**, Turgeon, K., Kramer, D. L. (2009). Body size and reserve protection affect flight initiation distance in parrotfishes. *Behavioral Ecology and Sociobiology* 63(11):1563–1572 doi: 10.1007/s00265–009–0750–5

## Responses to Comments

2. Siepielski, A. M., Morrissey, M. B., Buoro, M., Carlson, S. M., Caruso, C. M., Clegg, S. M., Coulson, T., DiBattista, J., **Gotanda, K. M.**, Francis, C. D., Hereford, J., Kingsolver, J. G., Augustine, K. E., Kruuk, L. E. B., Martin, R. A., Sheldon, B. C., Sletvold, N., Svensson, E. I., Wade, M. J., MacColl, A. D. C. (2018). Response to comment on "Precipitation drives global variation in natural selection". *Science* 359(6374): eaan5760 doi: 0.1126/science.aan5760
1. Berger-Tal, O., Greggor, A. L., Macura, B., Adams, C., Blumenthal, A., Bouskila, A., Candolin, U., Doran, C., **Gotanda, K. M.**, Price, C., Putman, B., Segoli, M., Snijders, L., Wong, B. B. M., Blumstein, D. T. (2018) Systematic evidence synthesis as part of a larger process: a response to comments on Berger-Tal et al. *Behavioral Ecology*. 30(1): 14-15 doi: /10.1093/beheco/ary163

**In Review/In Revision/Submitted (full manuscript available upon request)**

- Winchell, K. M., Aviles-Rodriguez, K. J., Carlen, E. J., Miles, L. S., Charmantier, A., De León, L. F., **Gotanda, K. M.**, Rivken, L. R., Szulkin, M., Verrelli, B. C. (in review) Moving past the challenges and misconceptions in urban adaptation research. *Ecology and Evolution* MS: ECE-2022-07-01123
- McNew, S., Yopez, J., Loyola, C., Andreadis, C., **Gotanda, K. M.**, Saulsberry, A., Fessl, B. (in revision) Transcriptomic effects of Galápagos finches to avian pox virus infection. *Molecular Ecology* MS: MEC-21-1381
- Carrión, P. L., Raeymaekers, J. A. M., De León, L. F., Chaves, J. A., Sharpe, D. M. T., Huber, S. K., Herrel, A., Vanhooydonck, B., Gotanda, K. M., Koop, J. A. H., Knutie, S. A., Clayton, D. H., Podos, J., Hendry, A. P. (in revision) The terroir of the finch: how spatial and temporal variation shapes phenotypic traits in Darwin's finches. *Ecology and Evolution* MS: ECE-2022-07-01123
- Gotanda, K. M.\***, Farine, D. R.\*, Kratochwil, C. F.\*, Laskowski, K. L.\*, Montiglio, P. O.\* (in revision) Animal behaviour facilitates eco-evolutionary dynamics. *Trends in Ecology & Evolution* MS: TREE-D-19-00365 <http://arxiv.org/abs/1912.09505>

**Other Contributions (non-peer reviewed)**

**Co-hosts and editor:** Hendry, A. P., Bolnick, D. I., **Gotanda, K.M.**, Eco-Evo Evo-Eco blog. <https://ecoevoeco.blogspot.com/>

**Gotanda, K. M.**, Baldassarre, D., Chaves, J. (2021) Vampire finches: how little birds in the Galápagos evolved to drink blood. *The Conversation* <https://theconversation.com/vampire-finches-how-little-birds-in-the-galapagos-evolved-to-drink-blood-153010>

**Gotanda, K. M.** (2019) Darwin's finches and urbanization. *Galapagos News* Spring/Summer 2019 Galapagos Conservancy. <https://www.galapagos.org/wp-content/uploads/2019/06/GalapagosNews-Sp-Su2019-web.pdf>

**Gotanda, K. M.** (2019) Darwin's finches adapting to human influences. *British Ornithologists' Union Blog* <https://www.bou.org.uk/blog-gotanda-antipredator-behaviour-darwins-finches/>

**GRANTS, FELLOWSHIPS, AND SCHOLARSHIPS**

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**Research Grants (Total: \$141,603 CAD not including NSF's)**

- 2023            Pending: Team Leader on Canada Foundation for Innovation Fund "Clean agriculture for sustainable production (CASP) field infrastructure", PIs: Sudarsana Poojari and Jim Willwerth; \$2,261,276 CAD

## Dr. Kiyoko Gotanda CV

- 2022–2023 PI on Brock University Advancement Fund (BUAF) Explore Grant “Behavioural variation and dispersal in three-spine sticklebacks” \$7,000 CAD
- 2021–2023 Senior Personnel on National Science Foundation Grant “Evo-LTER Conference: Building collaborations to investigate the effects of urbanization on eco-evolutionary dynamics across the NSF-LTER network” PI: Amy Savage; \$99,969 USD
- 2018–2023 Collaborator on National Science Foundation Research Coordination Networks. “Eco-Evolutionary Dynamics in an Urban Planet: Underlying Mechanisms and Ecosystem Feedbacks” PI: Marina Alberti; \$498,817 USD
- 2017–2021 Co-PI on Deutsche Forschungsgemeinschaft – German Research Foundation Scientific Network Grant. “The role of interaction structure in eco-evolutionary dynamics (EcoEvoInteract)” €64,996
- 2017–2020 Christ’s College University of Cambridge; Charles Darwin – Galápagos Islands Visiting Scholarship Scheme; Total: £4,000
- 2017–2019 Clare Hall; University of Cambridge; Whitehead Fund; Total: £1,500
- 2016–2017 Newnham College University of Cambridge; Phyllis and Eileen Gibbs Travelling Research Fellowship; £8,000
- 2016 British Ornithologists’ Union Research Grant; £1,411
- 2014 European Society for Evol. Biol. (ESEB) Godfrey Hewitt Mobility Award; €2,000
- 2013 Sigma Xi Grants in Aid of Research; \$500 USD
- 2010–2011 FQRNT Bourse pour le Stage International; \$10,000 CAD

### **Scholarships and Fellowships (Total: \$688,903 CAD)**

- 2021–2022 Brock Faculty of Maths. and Sci. Postdoc. Fellows Support Award; \$25,000 CAD
- 2017–2019 Natural Sciences and Engineering Research Council of Canada (NSERC); Banting Postdoctoral Fellowship; \$140,000 CAD
- 2018–2020 Natural Sciences and Engineering Research Council of Canada (NSERC); Postdoctoral Fellowship; \$90,000 CAD (Declined)
- 2016–2018 Le Fonds Québécois de la Recherche sur la Nature et les Technologies (FQRNT); Postdoctoral Research Fellowship; \$70,000 CAD
- 2014–2015 McGill U. Department of Biology Vineberg Fellowship; \$3,903 CAD
- 2011–2014 Natural Sciences and Engineering Research Council of Canada (NSERC); Vanier Canada Graduate Scholarship; \$150,000 CAD
- 2011–2014 NSERC; Alexander Graham Bell Doctoral Scholarship; \$105,000 CAD (Declined)
- 2011–2014 FQRNT; Doctoral research scholarship; \$60,000 CAD (Declined)
- 2010–2011 FQRNT; Masters to Doctoral research scholarship; \$20,000 CAD
- 2010–2011 McGill U. Principal’s Graduate Fellowship; \$2,500 CAD
- 2009–2011 McGill U. Faculty of Sci. Lorne Trottier Sci. Accelerator Fellowship; \$5,000 CAD
- 2009–2011 McGill U. Department of Biology Provost’s Graduate Fellowship; \$10,000 CAD
- 2009–2010 NSERC; Alexander Graham Bell Masters Scholarship (CGS–M); \$17,500 CAD
- 2009–2010 FQRNT; Master’s research scholarship; \$15,000 CAD (Declined)

### **AWARDS AND DISTINCTIONS**

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#### **Honours and Merit (Total: \$21,900 CAD)**

- 2020 Canadian Society for Ecology & Evolution Early Career Award; \$1,500 CAD
- 2015 Québec Centre for Biodiversity Science (QCBS) Biodiversity Award; \$500 CAD
- 2010–2014 QCBS Training Excellence Award; Total: \$7,598.84 CAD
- 2013 Kappa Kappa Gamma Found. of Canada Scholar. for Women; \$3,500 CAD
- 2012 Senior Women Academic Admin. of Canada Award of Merit; \$3,000 CAD



2010 McGill U. Redpath Museum Delise Alison Grad. Stud. Devt. Award; \$1,000 CAD  
2006–2009 Six competitive awards and scholarships from McGill U.; Total: \$4,800 CAD

**Competitive Travel Awards (Total: \$9,016 CAD)**

2018–2019 Cambridge Philosophical Society Travel Grant; Total: £400  
2013–2015 McGill U. Dept. of Biology Int. Grad. Research Travel Award; Total: \$6,505 CAD  
2011 McGill U. Dept. of Biol. Grad. Research Enhancement Travel Award; \$500 CAD  
2011 Society for the Study of Evolution (SSE) International Travel Award; \$1,000 USD

**PRESENTATIONS**

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**Invited Talks** \*Graduate Student Invited Speaker

Upcoming Penn State University, Department of Biology, United States  
University of Western Ontario, Department of Biology, Canada

2022 \*Florida State University, Dept. Biol. Sci. Colloquium Series, United States  
Florida State University, Dept. Biol. Sci. Ecology & Evolution, United States  
University of Toronto, Ecology and Evolution, Canada

2021 \*Wake Forest University, Department of Biology, United States  
\*George Washington University, Department of Biology, United States  
\*University of Exeter's Penryn Campus, Darwin Week Early Career Researcher  
Invited Speaker, England  
Netherlands Annual Ecology Meeting Invited Keynote Speaker, Urban Ecology  
and Human Impacts, Netherlands  
University of Alberta, Faculty of Science – Biological Sciences, Canada  
McMaster University, Department of Biology, Canada  
University of Colorado, Denver, Department of Integrative Biology, United States  
Kennesaw State University, Dept. of Ecol., Evol., and Org. Bio., United States  
University of Guelph, Department of Integrative Biology, Guelph, Canada

2020 Canadian Society for Ecology & Evolution Early Career Award  
\*University of Glasgow, Darwin Day Invited Speaker, Scotland  
Vanier College, Vanier Celebrates Women in Science, Canada  
University of Wyoming, Department of Zoology & Physiology, United States  
Emporia State University, Department of Biological Sciences, United States  
Université de Sherbrooke, Department of Biology, Canada  
California State University, Fresno, Department of Biology, United States  
Brock University, Department of Biological Sciences, Canada  
Lakehead University, Department of Biology, Canada  
Durham University, Department of Biosciences, England  
Centre de Recerca Ecològica i Aplicacions Forestals Talks, Barcelona, Spain  
University of Missouri – St. Louis, Department of Biology, United States

2019 George Mason University, Department of Biology, United States  
McGill University, Redpath Museum, Canada  
Christ's College Charles Darwin and Galapagos Islands Funds 10<sup>th</sup> Anniversary,  
London, England  
Swansea University, Department of Biosciences, Wales  
Université de Montréal, Département de Sciences Biologiques, Canada

2018 Nord University, Faculty of Biosciences and Aquaculture, Norway  
Concordia University, Department of Biological Sciences, Canada  
Anglia Ruskin University, Department of Biology, England

2017 Imperial College London, Ecology and Evolution Seminar Series, England

- University of Bristol, Workshops in Ecology and Behaviour  
University of Jyväskylä, Departmental Research Seminar Series, Finland  
Newnham College, University of Cambridge, Gibbs Fellowship Annual Lecture  
Charles Darwin Research Foundation, Galápagos Islands, Ecuador  
Universidad San Francisco de Quito, Ecuador
- 2016 Corpus Christi College, Postdocs of Cambridge Society Leckhampton Dinner  
University of Cambridge, Zoology Postdoc Summer Seminar Series, England
- 2015 Vanier Celebrates Women in Science, Vanier College, Canada  
University of Cambridge, Behavioural Ecology Group, England
- 2014 Queen's University, Ecology, Evolution, and Behaviour Seminar Series, Canada
- 2013 McGill University, Biology Organismal Seminar Series, Canada

**Contributed Talks** (\* Poster Presentation) ( ) indicate number of presentations

- 2021 Société Québécoise pour l'Étude Biol. du Comportement. Sherbrooke, Canada, Hybrid  
Canadian Society for Ecology and Evolution. Vancouver, BC, Canada, Virtual  
Animal Behavior Society 2021 Virtual Meeting  
Virtual Evolution  
McGill Biology Department Day, Montréal, Québec, Canada
- 2020 Québec Centre for Biodiversity Science. Montréal, Québec, Canada, Virtual  
Société Québécoise pour l'Étude Biol. du Comportement. QC, Canada, Virtual
- 2019 Evolution. Providence, Rhode Island, United States  
Société Québécoise pour l'Étude Biologique du Comportement. Montréal, Québec,  
Canada
- 2018 \*2<sup>nd</sup> Joint Congress on Evolutionary Biology. Montpellier, France  
Symposium: Predicting Evolution  
The American Society of Naturalists. Asilomar, California, United States (2)  
Symposium: Maladaptation
- 2017 European Society for Evolutionary Biology. Groningen, The Netherlands (2)  
Symposium: Urban Evolution  
Symposium: Eco-Evolutionary Dynamics  
Evolution. Portland, Oregon, United States (2)  
Spotlight Symposium: Eco-Evolutionary Dynamics
- 2016 International Society for Behavioural Ecology. Exeter, England
- 2015 Société Québécoise pour l'Étude Biologique du Comportement. Québec City, Québec,  
Canada  
Québec Centre for Biodiversity Science. Montréal, Québec, Canada
- 2014 \*International Society for Behavioural Ecology. New York, New York, United States  
Québec Centre for Biodiversity Science. Montréal, Québec, Canada  
GENOMES TO/AUX BIOMES joint meeting. Montréal, Québec, Canada
- 2013 Québec Centre for Biodiversity Science. Montréal, Québec, Canada  
Evolution. Snowbird, Utah, United States
- 2012 Québec Centre for Biodiversity Science. Montréal, Québec, Canada  
1<sup>st</sup> Joint Congress on Evolutionary Biology. Ottawa, Ontario, Canada
- 2011 Québec Centre for Biodiversity Science. Montréal, Québec, Canada  
European Society for Evolutionary Biology. Tübingen, Germany  
Canadian Society for Ecology and Evolution. Banff, Alberta, Canada
- 2010 Evolution. Portland, Oregon, United States.  
Ecological and Evolutionary Ethology of Fishes. Burnaby, BC, Canada  
Symposium: The Impacts of Environmental Stressors on Fish Behaviour



2009 Société Québécoise pour l'Étude Biologique du Comportement. Trois-Rivières, Québec, Canada

## MENTORING AND TEACHING

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### Postdoctorate Supervising

2021–now Supervise 1 Postdoctoral Fellow, Brock University

### Postgraduate Supervising

2021–now Supervise 1 PhD student, Brock University

2021–now Supervise 1 MSc student, Brock University

2020–now Co-supervise 1 PhD student, McGill University

2019–now Committee member 1 MSc student, Université du Québec à Montréal

2020–now Committee member 1 MSc student, San Francisco State University

### Mentoring and Undergraduate Supervisions

35 total of which: 31 females, 2 LGBTQ+, 1 disabled, and 10 visible minorities

2022–2023 Supervised 4 Undergraduate Honours Thesis student, Brock University

2021–2022 Supervised 1 Undergraduate Honours Thesis student, Brock University

2021–now Mentor to 2 postdoctoral research fellows through Women and Non-Binary People of Colour in Ecology and Evolutionary Biology's one-to-one mentorship program

2021 Supervise 1 Co-op student, Brock University

2021 Mentored 3 undergraduates for the virtual Evolution conference

2017–2020 Supervised 4 undergraduate's independent projects; U. Cambridge

2017–2018 Mentored 4 undergraduate students; U. Cambridge

2009–2015 Mentored 14 undergraduate students on their independent projects; McGill U.

### Courses

2022–now Current Topics in Conservation Ecology and Biodiversity

2022–now Animal Behaviour, Brock University

2021–now Ecology, Brock University

2021 Biostatistics, Brock University

### Teacher's Assistant

2014, 2015 Methods in Organismal Biology, McGill U.

### Guest Lectures

2017 Erasmus Mundus International Master's in Applied Ecology; Professor: Diego Quiroga

2015, 2017 Canton High School, Canton, Massachusetts, USA; Professor: Rebecca Stang

2016 Lusaka International Community School, Lusaka, Zambia; Professor: Teresa Heymans

### Invited/Featured Scientist

2022 Genetics; Loyola University; Professor: Dr. Sara Lipshutz

2018, 2020, Animal Behaviour Course; University of Connecticut; Professor: Dr. Sarah Knutie

2021 Manuscript discussed: "Human influences on antipredator behaviour in Darwin's finches"

2020, 2021 Ecology Course, Gettysburg College; Professor: Dr. Natasha Gownaris

Manuscript discussed: "Human influences on antipredator behaviour in Darwin's finches"

2017 Workshops in Ecology and Behaviour; University of Bristol

Manuscript discussed: “Human influences on evolution, and the ecological and societal consequences”

## **COLLABORATIVE RESEARCH GROUPS**

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|-----------|--|
| 2022–now  | Steering Committee Member, National Science Foundation Research Coordination Networks; “Eco-Evolutionary Dynamics in an Urban Planet: Underlying Mechanisms and Ecosystem Feedbacks” |
| 2018–now  | Collaborator, National Science Foundation Research Coordination Networks; “Eco-Evolutionary Dynamics in an Urban Planet: Underlying Mechanisms and Ecosystem Feedbacks”              |
| 2017–2022 | Member; Deutsche Forschungsgemeinschaft – German Research Foundation; “The role of interaction structure in eco-evolutionary dynamics (EcoEvoInteract)”                              |
| 2017–2020 | Contributor; Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services  |
| 2014–2015 | Project Staff; Earthwatch; “Following Darwin’s Finches in the Galápagos”   |
| 2012–2014 | Member; National Evolutionary Synthesis Center; “The Environmental and Demographic Determinants of Natural Selection”  |

## **WORK EXPERIENCE**

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### **Ballet Dancer**

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| 1998–2004 | Les Grands Ballets Canadiens de Montréal, Montréal, Québec |
| 1996–1998 | Joffrey Ballet of Chicago, Chicago, Illinois               |

## **PROFESSIONAL SERVICE AND OUTREACH**

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### **Committees and Associations**

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|-----------|---|
| 2021–now  | Faculty advisor for Graduate Math and Science Student Society (GRAMSS), Brock University          |
| 2021–now  | Research Coordination Network Steering Committee Member, international                            |
| 2021–now  | Early Career and PhD Award application reviewer, Can. Soc. for Ecol. & Evol.                      |
| 2021      | Member of the Equality and Diversity Initiative Committee, Québec Centre for Biodiversity Science |
| 2018–2020 | Member of the Stewardship Committee, Clare Hall, U. Of Cambridge                                  |
| 2017–2020 | Member of the Equalities & Wellbeing Committee, Zoology, U. of Cambridge                          |
| 2017–2020 | Member of the Fellowships Committee, Clare Hall, U. Of Cambridge                                  |
| 2016–2020 | Member of the Governing Board, Clare Hall, U. of Cambridge  |
| 2011–2015 | Outreach Committee Member, Canadian Society for Ecology and Evolution                             |
| 2009–2015 | Redpath Museum Rep., Biology Graduate Student Association, McGill U.                              |
| 2010–2014 | Website Administrator, Biology Graduate Student Association, McGill U.                            |
| 2011–2013 | Secretary, Biology Graduate Student Association, McGill U.  |

### **Outreach**

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|-----------|---|
| 2009–now  | Photography Workshop Presenter  |
| 2016–2020 | Volunteer, University Museum of Zoology   |
| 2009–2016 | Volunteer, Let’s Talk Science   |
| 2012–2013 | Student Facilitator for McGill’s Academic Integrity Day, McGill U.              |
| 1999–2004 | Assistant to the Artistic Coordinator, Les Grands Ballets Canadiens de Montréal |

2003 Rehearsal Assistant, Les Grands Ballets Canadiens de Montréal

### Conference and Performance Organization

2021–now Faculty advisor, Faculty of Mathematics and Science Graduate Research Day, Conference  
2012–2014 Chair, Graduate Student Committee, GENOMES TO/AUX BIOMES 2014, joint conference of three Canadian societies  
2010 Annual Congress Organizing Committee Member, Société Québécoise pour l'Étude Biologique du Comportement/ Québec Society for the Study of Behavioural Ecology  
2003 Saku Koivu Foundation Benefit Performance Coordinator, à Suivre..., Les Grands Ballets Canadiens de Montréal  
2000–2002 à Suivre..., Choreographic Workshop Performance Coordinator, Les Grands Ballets Canadiens de Montréal

### Symposium Coordination

2020 The American Society of Naturalists. Asilomar, California, United States  
Symposium: Merging behavioural ecology with eco-evolutionary dynamics: lessons from the past to move current research forward

### Seminar Organization

2021 Co-coordinator and facilitator for Graduate Math and Science Student (GRAMSS) Seminar Series, Brock University  
2017–2019 Behaviour, Ecology, & Evolution Seminar Series co-organizer, U. of Cambridge  
2017–2018 Zoology Departmental Seminar Day co-organizer, U. of Cambridge  
2009 Department of Biology Organismal Seminar Representative, McGill U.

### Interviews

2022 British Broadcasting Company (BBC) Sounds, The Climate Question  
<https://www.bbc.co.uk/sounds/play/w3ct2drz>  
2022 British Broadcasting Company (BBC) World News Service; Newsday  
<https://www.bbc.co.uk/sounds/play/p0bmp2zb>  
2015 Canadian Broadcasting Company (CBC); Daybreak

### REVIEWING

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The American Naturalist	Biol. J. of the Linnean Society	Journal of Fish Biology
Animal Behaviour	BMC Ecology	Nature Communications
Animal Biology	Ecology and Evolution	Notornis
Animal Conservation	Evolution	Phil. Trans. of the Roy. Soc. B
Animals	Evolutionary Applications	PLoS One
Aquatic Ecology	Evolutionary Ecology	Proc. of the Roy. Soc. B
Axios	Hydrobiologia	Royal Society Open Science
Biological Invasions	Journal of Animal Ecology	Scientific Reports

**PROFESSIONAL AFFILIATIONS**

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Animal Behavior Society  
American Society of Naturalists  
The Assoc. for the Study of Animal Behaviour  
The British Ecological Society  
British Ornithologists' Union

Canadian Society for Ecology and Evolution  
European Society for Evolutionary Biology  
International Soc. for Behavioural Ecology  
The Society for the Study of Evolution