

Kiyoko Gotanda

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<http://www.kiyokogotanda.com>

ACADEMIC POSITIONS

2017–present Banting Postdoctoral Fellow; Univ. Of Cambridge
2016–present Research Fellow in the Sciences at Clare Hall; 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

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

PUBLICATIONS

I have edited one special issue, and I have published twenty-two peer reviewed manuscripts for ten of which I am first or co-first author, two of which are natural history notes, one of which is a methods paper, and two of which are responses to comments.

Google Scholar – 575 citations, h-index = 10; retrieved 27 May 2019

Web of Science – 408 citations, h-index = 9; retrieved 27 April 2019

*Authors contributed equally to work; §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

23. 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. (in press) Predator-induced collapse of niche structure and species coexistence. *Nature* MS: 2018-10-13810A

22. Knutie, S. A., Chaves, J. A., **Gotanda, K. M.** (in press) Human disturbances can influence the body mass and gut microbiota of Darwin's finches. *Molecular Ecology* MS: MEC-19-0008

[EurekaAlert!](#), [Science Daily](#), [Phys.org](#), [SINC \(in Spanish\)](#), [La Razon \(in Spanish\)](#), [La Vanguardia \(in Spanish\)](#), [Madrid \(in Spanish\)](#)

21. **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
20. 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* doi: 10.1111/eva.12721
Media coverage: [PBS](#), [phys.org](#), [El Comercio](#), [Life in the City](#), [Naked Science \(in Russian\)](#)
19. 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
18. 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) Making the case for systematic evidence syntheses as a tool for applying animal behaviour to management and policy. *Behavioral Ecology* doi: 10.1093/beheco/ary130
17. Knutie, S. A.* and **Gotanda, K. M.*** (2018) A non-destructive method to collect fecal samples from wild birds for microbiome studies. *Microbial Ecology* 76(4): 851-855. doi: 10.1007/s00248-018-1182-4
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
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*. doi: /10.1093/beheco/ary163

Pre-prints/Submitted/In Review/Revision (full manuscripts available upon request)

Gotanda, K. M. (in review) Human influences on antipredator behaviour in Darwin's finches. *Journal of Animal Ecology* MS: JAE-2019-00351 doi: <https://www.biorxiv.org/content/10.1101/591651v1>

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. (in review) The ecology and evolution of seed predation by Darwin's finches on *Tribulus cistoides* in the Galápagos Islands. *Ecological Monographs* MS: ECM18-0182.R1

Montiglio, P. O. *, **Gotanda, K. M.** *, Kratochwil, C.F. *, Laskowski, K. L. *, Nadell, C. D. *, Farine, D. R. * (in review) Nested interaction networks represent a missing link in the study of behavioural and community ecology. *Behavioural Ecology* MS: BEHECO-2019-0218 doi: <http://arxiv.org/abs/1804.00927>

GRANTS, FELLOWSHIPS, AND SCHOLARSHIPS

Postdoctoral Fellowships (Total: \$227,288 USD)

- 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

Research Grants (Total: \$101,641 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
- 2017–2019 Co-PI on Deutsche Forschungsgemeinschaft – German Research Foundation. “The role of interaction structure in eco-evolutionary dynamics (EcoEvoInteract)” €64,996
- 2017–2019 Christ’s College University of Cambridge; Charles Darwin – Galápagos Islands Visiting Scholarship Scheme; Total: £3,000
- 2017–2018 Clare Hall; University of Cambridge Whitehead Fund; Total: £1,000
- 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: \$294,525 USD)

- 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

Honours and Merit (Total: \$15,447 USD)

- 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: \$6,183 USD)

- 2018 Cambridge Philosophical Society Travel Grant; £200
 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; \$1000 USD

PRESENTATIONS

Invited Talks

- 2019 Department of Biosciences, Swansea University, Wales
 Département de Sciences Biologiques, Université de Montréal, Canada
 2018 Faculty of Biosciences and Aquaculture, Nord University, Norway
 Department of Biological Sciences, Concordia University, Canada
 Department of Biology, Anglia Ruskin University, England
 2017 Ecology and Evolution Seminar Series, Imperial College London, England
 Workshops in Ecology and Behaviour, University of Bristol, England
 Departmental Research Seminar Series, University of Jyväskylä, Finland
 Gibbs Fellowship Annual Lecture, Newnham College, University of Cambridge
 Charles Darwin Research Foundation, Galápagos Islands, Ecuador
 Universidad San Francisco de Quito, Ecuador
 2016 Postdocs of Cambridge Society Leckhampton Dinner, Corpus Christi College
 Zoology Postdoc Summer Seminar Series, University of Cambridge
 2015 Vanier Celebrates Women in Science, Vanier College, Canada
 Behavioural Ecology Group, University of Cambridge, England
 2014 Ecology, Evolution, and Behaviour Seminar Series, Queen's University, Canada
 2013 Biology Organismal Seminar Series, McGill University, Canada

Contributed Talks * Poster Presentation () indicate number of presentations

- 2018 *2nd 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, United Kingdom

Kiyoko Gotanda – CV

- 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
1st 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

Project Supervisions and Mentoring

22 total of which: 18 female, 1 LGBT, and 6 visible minority

- 2017–now Supervise 4 undergraduate's independent research project; U. Cambridge
- 2017–2018 Mentored 4 undergraduate students; U. Cambridge
- 2009–2015 Mentored 14 undergraduate students on their independent projects; McGill U.

Teacher's Assistant

- 2014, 2015 Methods in Organismal Biology, McGill U.

COLLABORATIVE RESEARCH GROUPS

- 2018–2023 Collaborator; National Science Foundation Research Coordination Networks; “Eco-Evolutionary Dynamics in an Urban Planet: Underlying Mechanisms and Ecosystem Feedbacks”
- 2017–2020 Member; Deutsche Forschungsgemeinschaft – German Research Foundation; “The role of interaction structure in eco-evolutionary dynamics (EcoEvoInteract)”
- 2017–now 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

Ballet Dancer

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

PROFESSIONAL SERVICE AND OUTREACH

Committees and Associations

- 2017–now Member of the Equalities & Wellbeing Committee, Zoology, U. of Cambridge
 2017–now Member of the Fellowships Committee, Clare Hall, U. Of Cambridge
 2016–now 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

- 2016–now Volunteer, University Museum of Zoology
 2009–2016 Volunteer, Let's Talk Science
 2009–2016 Photography Workshop Presenter, McGill U.
 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

- 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

Seminar Organization

- 2017–now Behaviour, Ecology, & Evolution Seminar Series co-organizer, U. of Cambridge
 2017–now Zoology Departmental Seminar Day co-organizer, U. of Cambridge
 2009 Department of Biology Organismal Seminar Representative, McGill U.

REVIEWING

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|---|---------------------------|----------------------------|
| The American Naturalist | Ecology and Evolution | Journal of Animal Ecology |
| Animal Behaviour | Evolution | Journal of Fish Biology |
| Animal Biology | Evolutionary Applications | PLoS One |
| Aquatic Ecology | Evolutionary Ecology | Royal Society Open Science |
| Axios | | |
| Biological Journal of the Linnean Society | | |
| Philosophical Transactions of the Royal Society B – Biological Sciences | | |
| Proceedings of the Royal Society B – Biological Sciences | | |

PROFESSIONAL AFFILIATIONS

- | | |
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| The Assoc. for the Study of Animal Behaviour | European Society for Evolutionary Biology |
| American Society of Naturalists | International Soc. for Behavioural Ecology |
| The British Ecological Society | The Society for the Study of Evolution |
| British Ornithologists' Union | The Wilson Ornithological Society |

Kiyoko Gotanda – CV

Canadian Society for Ecology and Evolution