

## Kiyoko Gotanda

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Department of Zoology  
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### 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-one 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 – 492 citations, h-index = 10; retrieved 22 December 2018

Web of Science – 350 citations, h-index = 9; retrieved 22 December 2018

\*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

21. **Gotanda, K. M.**, Pack, A. §, Leblond, C., Hendry, A. P. (2018) Do replicates of independent guppy lineages evolve similarly in a predator-free laboratory environment? *Ecology and Evolution* 00: 1–16 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](#),

19. 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

18. 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](#),
17. 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
16. 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](#)
15. 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](#)
14. 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
13. **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
12. **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
11. 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.
10. **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
9. **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
8. 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

7. **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
6. **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

5. 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
4. 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

### Methods

3. 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

### Natural History Notes

2. Theodosopoulos, A. N. § and **Gotanda, K. M.** (2018) Death of a Darwin's Finch: a consequence of anthropogenic debris? *The Wilson Journal of Ornithology* MS: wilsonjo-D-17-00050
1. **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

### Submitted/In Review/Revision (full manuscripts available upon request)

Knutie, S. A., Chaves, J. A., **Gotanda, K. M.** (in review) Human disturbances can influence the body mass and gut microbiota of Darwin's finches. *Microbial Ecology* MS: MECO-D-18-00708

**Gotanda, K. M.** (submitted) Human influences on antipredator behaviour in Darwin's finches. *The American Naturalist* MS: 58966

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

Pringle, R. M., Kartzinel, T. R., Palmer, T. M., Thurman, T. J., Fox-Dobbs, K., Coverdale, T. C., Daskin, J. H., Evangelista, D. A., **Gotanda, K. M.**, Kolbe, J. J., Man in 't Veld, N., Wegener, J. E., Xu, C. C. Y., Schoener, T. W., Spiller, D. A., Losos, J. B., Barrett, R. D. H. (in revision) Collapse of niche structure on island with introduced top predators. *Nature* MS: 2018-10-13810

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

## GRANTS, FELLOWSHIPS, AND SCHOLARSHIPS

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### 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
- 2017–2018 Christ’s College University of Cambridge; Charles Darwin – Galápagos Islands  
Visiting Scholarship Scheme; Total: £2,000
- 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

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### 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**

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**Invited Talks**

Upcoming	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	*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, United Kingdom
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

## Kiyoko Gotanda – CV

- 2010 Canadian Society for Ecology and Evolution. Banff, Alberta, Canada  
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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#### Project Supervisions and Mentoring

- 22 total of which: 18 female, 1 LGBT, and 6 visible minority
- 2017–present 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

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- 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)”
- 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

- 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

- 2017–present Member of the Equalities & Wellbeing Committee, Zoology, U. of Cambridge
- 2017–present Member of the Fellowships Committee, Clare Hall, U. Of Cambridge
- 2016–present 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–present Volunteer, University Museum of Zoology
- 2009–2016 Volunteer, Let's Talk Science
- 2009–2016 Photography Workshop Presenter, McGill U.

## Kiyoko Gotanda – CV

- 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–present Behaviour, Ecology, & Evolution Seminar Series co-organizer, U. of Cambridge  
2017–present 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		
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
Canadian Society for Ecology and Evolution	