

# Kiyoko Gotanda

University of Cambridge  
Department of Zoology  
Downing Street  
Cambridge CB2 3EJ

Telephone: +44(0)1223 767130  
Fax: +44(0)1223-336676  
Email: kg419@cam.ac.uk  
<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 – 540 citations, h-index = 10; retrieved 27 March 2019

Web of Science – 385 citations, h-index = 9; retrieved 27 March 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

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

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* 130(4): 1023-1028 doi: 10.1676/17-00050
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

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

**Gotanda, K. M.** (submitted) Human influences on antipredator behaviour in Darwin's finches. *Nature Ecology & Evolution* MS: NATECOLEVOL-19046609 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 revision) 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 review) Niche structure and species coexistence on islands with introduced predators. *Nature* MS: 2018-10-13810A

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

---

### 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

## Kiyoko Gotanda – CV

- 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

- Upcoming Department of Biosciences, Swansea University, Wales  
2019 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

## Kiyoko Gotanda – CV

- 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

---

#### 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.

## Kiyoko Gotanda – CV

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

---

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

---

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	

**REFEREES**

---

Claire N. Spottiswoode  
BBSRC David Phillips Research Fellow, University of Cambridge  
Hans Gadow Lecturer, University of Cambridge  
Senior Research Fellow, Magdalene College, Cambridge  
Pola Pasvolsky Chair in Conservation Biology, University of Cape Town  
Department of Zoology  
Downing Street  
Cambridge  
CB2 3EJ  
United Kingdom  
Telephone: +44 (0) 1223 768946  
Fax: +44 (0) 1223 336676  
Email: [cns26@cam.ac.uk](mailto:cns26@cam.ac.uk)

Andrew P. Hendry  
Professor, McGill University  
Redpath Museum and Department of Biology  
859 Sherbrooke Street W.  
Montreal, Quebec H3A 0C4  
Canada  
Telephone: +1 (514) 398–4086 x00880  
Fax: +1 (514) 398–3185  
Email: [andrew.hendry@mcgill.ca](mailto:andrew.hendry@mcgill.ca)

Jeffrey Podos  
Professor, University of Massachusetts Amherst  
Department of Biology  
221 Morrill Science Center  
University of Massachusetts  
Amherst, MA 01003  
United States of America  
Telephone: +1 (413) 545-0847  
Email: [jpodos@bio.umass.edu](mailto:jpodos@bio.umass.edu)

Sarah A. Knutie  
Assistant Professor, University of Connecticut  
Department of Ecology and Evolutionary Biology  
75 N. Eagleville Road, Unit 3043  
Storrs, CT 06269  
Telephone: +1 (218) 213-0008  
Email: [sarah.knutie@uconn.edu](mailto:sarah.knutie@uconn.edu)