

Katherine H. Bannar-Martin

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CITIZENSHIP

Canada (Permanent Resident); United Kingdom (Citizen); New Zealand (Citizen)

RESEARCH INTERESTS

Spatial structuring of communities; multi-component diversity; biogeographic processes shaping community assembly; community assembly and ecosystem function.

EDUCATION

2009-2015 Ph.D. Biological Anthropology, University of Texas at Austin, Austin, TX.

2007-2009 M.Sc. Biological Anthropology, University of Toronto, Toronto, ON.

2000-2004 B.Sc. Biology (with Distinction), University of Victoria, Victoria, B.C.

PROFESSIONAL EXPERIENCE

2015- Postdoctoral Researcher. Synthesis Centre (sDiv) of the German Centre for Integrative Biodiversity Research (iDiv), Halle-Jena-Leipzig.

2014-2015 Research Manager. ECHO Research, Faculty of Nursing, University of Alberta.

2013-2014 Research Project Coordinator. ECHO Research, Faculty of Nursing, University of Alberta.

PUBLICATIONS

1. **Bannar-Martin, K.H.** (2014). Primate and non-primate mammal community assembly: the influence of biogeographic barriers and spatial scale. *International Journal of Primatology*. 35(6): 1122-1142. DOI: 10.1007/s10764-014-9792-2
2. Scott, S.D., Rotter, T., Hartling, L., Chambers, T., and **Bannar-Martin, K.H.** (2014). A protocol for a systematic review of the use of process evaluations in knowledge translation research. *Systematic Reviews*. 3:149. DOI: 10.1186/2046-4053-3-149
3. Lewis, R.J., and **Bannar-Martin, K.H.** (2011). The impact of Cyclone Fanele on a tropical dry forest in Madagascar. *Biotropica*. 44(2): 135–140. DOI: 10.1111/j.1744-7429.2011.00799.x

TECHNICAL REPORTS

1. **Bannar-Martin, K.H.** (2006). Phytoplankton Taxonomy Protocol and Quality Assurance Protocol for the Phytoplankton Component of the NSERC Environmental Management of Drinking Water Monitoring Program. Victoria: University of Victoria Department of Biology.
2. Nordin, R.N., Field, K.M., **Bannar-Martin, K.H.**, Perga, M.E. & Mazumder, A. (2006). Coquitlam Reservoir: 2004 Assessment of Source Water Quality and Limnology – Year 2 Results.” Water and Watershed Management Program, University of Victoria, Prepared for the Greater Vancouver Regional District and the BC Hydro Bridge Coastal Fish and Wildlife Restoration Program. Victoria: University of Victoria.

AWARDS, GRANTS & FELLOWSHIPS

- 2014 American Association of Physical Anthropologists Student Presentation Award, Honourable Mention
- 2013-2014 American Association of University Women Doctoral Scholarship (\$2,500)
- 2013 Rhonda L. Andrews Memorial Award (\$2,000)
- 2011 Texas Association of Biological Anthropologists Student Award
- 2011 Liberal Arts Intellectual Entrepreneurship Travel Grant (\$200)
- 2010-2014 University of Texas at Austin Professional Development Award (4 awards; \$1,433)
- 2010 Explorer's Club Research Grant (\$1,500)
- 2010 University of Texas at Austin Department of Anthropology Summer Research Grant (\$2,000)
- 2010-2012 NSERC Postgraduate Scholarship – Doctoral Program (\$63,000 over 3 years)
- 2009 Texas Association of Biological Anthropologists Student Award
- 2009-2013 University of Texas at Austin Graduate Fellowship (\$14,202 per year plus tuition)
- 2009-2010 Liberal Arts Instructional Technology Services Fellowship (\$3,000)
- 2009 Ontario Graduate Scholarship (\$15,000; Declined)
- 2008 The General Motors Women in Science and Mathematics Award (\$3,500)
- 2007-2008 University of Toronto Graduate Fellowship (\$13,000 plus tuition)

RESEARCH EXPERIENCE

- 2016- Systematic review of multi-component diversity congruence in community ecology. Synthesis Centre of the German Centre for Integrative Biodiversity Research.
- 2015- Community assembly and the functioning of ecosystems in open systems. Synthesis Centre of the German Centre for Integrative Biodiversity Research.
- 2014-2015 Systematic review of process evaluations in knowledge translation research. ECHO Research, U Alberta.
- 2013-2014 Systematic review of narrative storytelling and visual arts-based approaches to knowledge translation in healthcare. ECHO Research, U Alberta.
- 2010-2015 Terrestrial mammal community assembly in Madagascar and Australia. UT Austin.
- 2011 Cyclone effects on forest structure and Verreaux's Sifaka (*Propithecus verreauxi*) feeding ecology. Kirindy Mitea National Park, Madagascar; UT Austin.
- 2009-2010 Mouse lemur (*Microcebus murinus*) enclosure design and enrichment. ARC, UT Austin.
- 2008-2009 Edge effects on ecology of Milne-Edwards' Sifaka (*Propithecus edwardsi*). Ranomafana National Park, Madagascar; U Toronto.
- 2008 Aerial predator avoidance behaviour of Verreaux's Sifaka (*Propithecus verreauxi*). Kirindy Mitea National Park, Madagascar; UT Austin.
- 2008 Carnivore camera trapping surveys. Ranomafana National Park, Madagascar; Virginia Technical Institute.
- 2006 Sound attenuation in tropical forests. Ranomafana National Park, Madagascar; UT Austin.
- 2006 Vocal and chemical communication and behavior of Milne-Edwards' Sifaka (*Propithecus edwardsi*). Ranomafana National Park and Ialatsara, Madagascar; Cornell University.

- 2004-2006 Freshwater phycologist, NSERC Environmental Management of Drinking Water Monitoring Program, University of Victoria.
- 2004 Wild animal rehabilitation. BC SPCA Wild Animal Rehabilitation Centre.
- 2004 Zooplankton diel vertical migration in Elk Lake. Department of Biology, University of Victoria.

TEACHING EXPERIENCE

German Centre for Integrative Biodiversity Research (iDiv)

1. Biodiversity Synthesis and Integration (Graduate), Lecturer and Project Leader, iDiv Summer School. Summer 2016.

University of Texas at Austin

1. Methods in Primate Biology (Upper Undergraduate), Course Co-Instructor. Winter 2010-2013.
2. Physical Anthropology (Undergraduate), Tutor for the Athletics Department, Winter 2011.
3. Physical Anthropology (Undergraduate), Teaching Assistant and Laboratory Instructor, Fall 2011 & 2012.
4. Primate Social Behavior (Undergraduate), Teaching Assistant, Fall 2009 & 2010.

University of Toronto

1. Primate Behaviour (Undergraduate), Course Instructor, Spring 2009.
2. Primate Behaviour (Undergraduate), Teaching Assistant, Spring 2008 & 2009.
3. Biological Anthropology: Beginnings (Undergraduate), Teaching Assistant and Laboratory Instructor, Spring 2009.
4. Anthropology (Undergraduate), Tutor for the Department of Anthropology, Fall 2008.
5. Living Primate Adaptations (Undergraduate - Lecture and Field-based), Teaching Assistant, Fall 2007 & 2008.

University of Victoria

1. Limnology (Upper Undergraduate), Laboratory Instructor, Summer 2006.
2. General Biology (Undergraduate), Laboratory Instructor, Fall 2006.
3. Animal Physiology (Upper Undergraduate), Laboratory Instructor, Fall 2004.

MENTORSHIP

Undergraduate Students

2013	Mishka King	Research Assistant Supervisor	Human Biology, UT Austin
2012	Tara Boggaram	Intellectual Entrepreneurship Supervisor in Primatology	Anthropology, UT Austin
2009	Niyosha Keyzad	Independent Study Supervisor in Primate Ecology	Anthropology, U Toronto

Masters Students

2011	Maximain Tantelinaiaina Andriamampiarisoa	Post-DEA (Master's degree equivalent) Research Supervisor	Paleontology, U Antananarivo
2008	Hasimija Mihaminekena	DEA Research Supervisor	Biology, U Antananarivo
2008	Jeanne Brigita Pierrette Tsavohitra	DEA Research Supervisor	Biology, U Antananarivo

INVITED WORKSHOPS

- 2016 Scaling beyond species traits: linking biodiversity processes across biological levels of organization. iDiv Biodiversity Theory Group workshop (to be held Fall 2016), Leipzig, Germany.
- 2016 Biodiversity Synthesis. CESAB workshop (1 meeting), Aix-en-Provence, France.
- 2015-2016 sCAFE: Community assembly and the functioning of ecosystems in open systems. sDiv workshop (2 meetings), Leipzig, Germany.

SELECTED REFEREED PRESENTATIONS

1. **Bannar-Martin, K.H.**, Ernest, M., Kremer, M., Leibold, M., and sCAFE Working Group. (2016). Ecosystem function in closed versus open systems – separating richness and compositional effects. To be presented at ESA Annual Meeting 2016, Fort Lauderdale, Florida. August 2016. (Podium presentation)
2. **Bannar-Martin, K.H.** (2016). Non-convergent mammal community diversity and assembly in shared ecoregions – a test in Madagascar and Australia. To be presented at Island Biology 2016 II International Conference on Island Evolution, Ecology, and Conservation, Terceira Island, Portugal. July 2016. (Podium presentation)
3. **Bannar-Martin, K.H.**, Leibold, M., Kremer, C. & Ernest, M. (2015). The sCafe workshop at sDiv: Community assembly and the functioning of ecosystems in open systems. iDiv Annual Conference 2015, Leipzig, Germany. December 2015. (Podium presentation)
4. **Bannar-Martin, K.H.** (2014). Different diversity measures tell different primate community assembly stories. 83rd Annual Meeting of the American Association of Physical Anthropologists, April 2014. (Podium presentation)
5. **Bannar-Martin, K.H.** (2013). Using spatial structural equation modeling as a novel approach to understanding primate community composition and diversity. 82nd Annual Meeting of the American Association of Physical Anthropologists, April 2013. (Podium presentation, Invited)
6. **Bannar-Martin, K.H.** (2012). Lions and tigers and humans, oh my! – Including human predation of primates in primate behavioral ecology. 81st Annual Meeting of the American Association of Physical Anthropologists, April 2012. (Poster)
7. **Bannar-Martin, K.H.** (Presenter) & Lewis, R.J. (2011). Home range use of Verreaux's sifaka (*Propithecus verreauxi verreauxi*) in a primary forest (Kirindy Mitea National Park) in Madagascar. Annual Meeting of the American Association of Primatologists, September 2011. (Podium presentation)
8. **Bannar-Martin, K.H.** (Presenter) & Lewis, R.J. (2011). Damage and mortality effects of Cyclone Fanele on sifaka food trees in Kirindy Mitea National Park, Madagascar. 80th Annual Meeting of the American Association of Physical Anthropologists, April 2011. (Poster)
9. **Bannar-Martin, K.H.** (Presenter) and R.J. Lewis. (2011). Home range use of Verreaux's sifaka (*Propithecus verreauxi verreauxi*) in a primary forest (Kirindy Mitea National Park) in Madagascar. Texas Association of Biological Anthropologists Annual Meeting, Austin, TX, November 2011. (Podium presentation)
10. **Bannar-Martin, K.H.** (Presenter) and S.M. Lehman. (2010). Interior versus exterior edges: Their effect on home range, spatial ecology and feeding ecology of Milne-Edwards' Sifakas (*Propithecus edwardsi*) in Ranomafana National Park, Madagascar. 79th Annual Meeting of the American Association of Physical Anthropologists, April 2010. (Poster)

11. **Bannar-Martin, K.H.** (2009). Interior versus exterior edges: their effect on home range, spatial ecology and feeding ecology of Milne-Edwards' Sifakas in Ranomafana, Madagascar. Texas Association of Biological Anthropologists Annual Meeting, Austin, TX, November 2009. (Podium presentation)

INVITED PRESENTATIONS & PUBLIC LECTURES

1. **Bannar-Martin, K.H.** (2015). Madagascar is NOT just another DreamWorks® movie. Nerd Nite @ Dark Matters, Telus Science Center, Edmonton, AB, 20 August 2015. (Public lecture)
2. **Bannar-Martin, K.H.** (2013). Research Data Management and Cleaning. Seminar, Advanced Theory and Practicum, Research and Nursing, Faculty of Nursing, University of Alberta. Edmonton, AB, October 2013. (Guest lecture)
3. **Bannar-Martin, K.H.** (2013). Scale and Process: Primate and Non-Primate Mammal Community Composition and Diversity in Madagascar. AAUW Austin Branch May meeting, Austin, TX, May 2013. (Guest lecture)
4. **Bannar-Martin, K.H.** (2013). Primate Conservation. Texas State University. San Marcos, TX, April 2013. (Guest lecture)
5. **Bannar-Martin, K.H.** (2012). The Hunger Games - Primates as Prey and Primates as Predators. University of Texas SAGE Group. Austin, TX, October 2012. (Guest lecture)
6. **Bannar-Martin, K.H.** (2008). Primate Conservation: Changing Needs in a Changing Landscape. University of Toronto. Toronto, ON, April 2008. (Guest lecture)
7. **Bannar-Martin, K.H.** and N.K. Abram. (2006). Communication and Sleep Site Choice in Wild Milne Edwards' Sifakas (*Propithecus edwardsi*). ValBio Research Center Consortium Meeting. Ranomafana, Madagascar, July 2006. (Podium presentation)

CONSULTING EXPERIENCE

2015-2016 Statistical Consultant. Identifying pediatric clinical information needs of health care professionals working in general emergency departments in Canada. ECHO Research, University of Alberta.

PROFESSIONAL SERVICE

2016- yDiv (Young Biodiversity Research Training Group) Board Member, iDiv
2016 Postdoctoral representative, iDiv DFG grant renewal interviews
2013-2015 American Journal of Primatology Reviewer
2013 e-Book Editor, University of Texas Press
2013 Organizer, Explore UT "Leaping Lemurs of Madagascar" Activity, University of Texas at Austin
2010-2012 Volunteer, Explore UT, University of Texas at Austin
2010 Volunteer, Texas Association of Biological Anthropologists Annual Meeting
2009 Co-organizer, Society for Conservation Biology Toronto Chapter Symposium
2008-2009 Math and Science Volunteer Tutor, Woodgreen Community Center, Toronto
2008-2010 Conservation Research Board Member, American Society of Primatologists
2008-2009 Chairperson for the Conservation Committee, Toronto Chapter of the Society for Conservation Biology
2007-2009 Science Volunteer Instructor, Let's Talk Science, Toronto

PROFESSIONAL AFFILIATIONS

Ecological Society of America (2010-2011; 2016-present); Society for Conservation Biology (2007-); American Association for Physical Anthropology (2009-2015); Texas Association of Biological Anthropologists (2009-2015); American Society of Primatologists (2007-2011)

ACADEMIC & STATISTICAL COMPUTING

Statistical Software	Analyze and display data in R, STATA, and SPSS
Statistical Programming	R code for statistical analysis, spatial analysis, structural equation modeling, and data visualization Python code for geospatial analysis
Database Management GIS	Design, architect and analyze large databases in Microsoft Access Spatial analysis, visualization, and map-making using Esri ArcGIS, Quantum GIS, and GRASS GIS software.

LANGUAGES

English (fluent); French (conversational); German (beginner)

REFERENCES

Dr. Morgan Ernest

Associate Professor
Department of Wildlife Ecology and
Conservation University of Florida
Gainesville, FL, USA
skmorgane@ufl.edu
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Dr. Jonathan Chase

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Head of Biodiversity Synthesis Research Group
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Dr. Mathew Leibold

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University of Texas at Austin
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Dr. Marten Winter

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