

CURRICULUM VITAE

LYDIA BEAUDROT

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EDUCATION

- 2014 PhD, Ecology, Graduate Group in Ecology
 “*Determinants of tropical vertebrate community composition*”
 University of California, Davis
- 2005 BA *cum laude*
 Environmental Studies and Anthropology major; Latin minor
 Middlebury College
- 2003 - *Fall* Visiting student in Biological Anthropology
 Harvard University

PROFESSIONAL APPOINTMENTS

- 2015 – Fellow, Michigan Society of Fellows
 Department of Ecology and Evolutionary Biology
 University of Michigan
- 2014 – 2015 Postdoctoral Associate, Quantitative Ecology & Biodiversity
 Tropical Ecology Assessment & Monitoring Network (TEAM)
 Moore Center for Science and Oceans, Conservation International

PRE-DOCTORAL RESEARCH EXPERIENCE

- 2006 –2008 Research Assistant, Department of Anthropology, Harvard
- 2005 –2006 Field Assistant, Lomas Barbudal Monkey Project, Costa Rica
 Max Planck Institute for Evolutionary Anthropology
- 2005 - *Spring* Senior thesis, Middlebury College
- 2004 - *Summer* Laboratory technician, Nutritional Ecology Lab, Harvard
- 2004 - *Spring* Independent field study, Manyara Ranch, Tanzania

FIELD COURSES

- 2008 – *Summer* International Field Biology, Pasoh Forest Reserve, Malaysia
Center for Tropical Forest Science (CTFS)
- 2004 – *Spring* Ecology and Conservation Field Semester, Tanzania
School for International Training (SIT),
- 2003 – *Summer* Primate Ecology, Panama
Institute for Tropical Ecology and Conservation (ITEC)
- 2003 – *Winter* Winter Ecology, Vermont
Center for Northern Studies (CNS)

INVITED WORKSHOPS (with travel awards)

- 2014 Bayes Workshop for Practicing Ecologists, May 21-30th,
Colorado State University, Fort Collins, Colorado
National Science Foundation (NSF)
- 2013 Scaling Up: Continental Scale Ecology for Early Career
Scientists, June 4-7th, Linthicum Heights, Maryland
Ecological Society of America (ESA)

FELLOWSHIPS & AWARDS

U Michigan Society of Fellows Fellowship	2015
UC Davis The Distinguished Dissertation in Biological and Life Sciences	2015
UC Davis Dissertation Year Fellowship	2013
AAPA Comas Prize for Outstanding Student Podium Presentation	2013
AAPA Pollitzer Student Travel Award	2013
UC Davis Graduate Group in Ecology Fellowship	2012
UC Davis Graduate Student Association Travel Award	2012
UC Davis Graduate Group in Ecology Fellowship	2011
UC Davis Professors for the Future Fellowship	2011
UC Davis Graduate Student Association Travel Award	2011
UC Davis Career Discovery Fellowship	2010
UC Davis Graduate Studies Travel Award	2009
UC Davis Consortium for Women and Research Travel Award	2009
NSF Graduate Research Fellowship	2008
Harvard Arnold Arboretum and CTFS Biology Field Course Fellowship	2008
Middlebury College Ron Brown Fellowship for Summer Research	2004
Middlebury College Kellogg Prize for Top Paper in the Classics	2002
National Latin Exam Scholarship Renewal	2002
National Latin Exam Scholarship	2001

CURRENT RESEARCH GRANTS

NSF (MacroSystems Biology), Collaborative Research: EAGER-NEON: Using Intraspecific Trait Variation to Understand Processes Structuring Continental-Scale Biodiversity Patterns. Senior Personnel with Ben Baiser (U Florida), Jonathan Belmaker (Tel Aviv U), Mao-Ning Tuanmu (Yale), Sydne Record (Bryn Mawr), Phoebe Zarnetske (Michigan State) and Angela Strecker (Portland University). Award 1550765, \$300,000.

NSF (Biological Anthropology), Collaborative Research: Understanding Temporal Variation in Primate Communities: Integrating Data from Extant and Fossil Species. Senior Personnel with Jason Kamilar (U Mass Amherst) and Kaye Reed (Arizona State). Awards 1551799 and 1551810, \$274,597.

MANUSCRIPTS IN ADVANCED STAGES (AVAILABLE UPON REQUEST)

24. **Beaudrot, L.** Ahumada, J., O'Brien, T. and P.A. Jansen. Detecting wildlife declines through camera trap monitoring. (In prep for *Oryx*).

PEER-REVIEWED JOURNAL ARTICLES (IN REVISION or IN REVIEW)

23. **Beaudrot, L.**, M. Acevedo, J.P. Lessard, A. Zvoleff, P.A. Jansen, C. Fletcher, E. Larney, T. O'Brien, F. Rovero, D. Sheil, S. Andelman and J. Ahumada. (In Review).

22. Ahumada, J.*, **Beaudrot, L.***, O'Brien, T. and P.A. Jansen (In Review). Power analysis for wildlife occupancy monitoring using time-series data. *Methods in Ecology and Evolution*. (*both authors contributed equally)

21. Read, Q.D., Grady, J.M., Zarnetske, P.L., Record, S., Baiser, B., Belmaker, J., Tuanmu, M.-N., Strecker, A., **Beaudrot, L.** and K.M. Thibault. (In Review). Intraspecific variation in body size reveals community assembly in North American rodents. *Nature Ecology & Evolution*.

20. Record, S., A. Strecker, M.-N. Tuanmu, **L. Beaudrot**, P. Zarnetske, J. Belmaker. (In Review). Does scale matter? Incorporating biological realism when predicting changes in species distributions. *Diversity and Distributions*.

PEER-REVIEWED JOURNAL ARTICLES (PUBLISHED)

19. Clink, D., C. Dillis, K. Feilen, **L. Beaudrot**, and A.J. Marshall. (In Press). Dietary diversity, feeding selectivity and responses to fruit scarcity of two sympatric Bornean primates (*Hylobates agilis* and *Presbytis rubicunda rubida*). *PLoS ONE*.

18. **Beaudrot, L.***, J.A. Ahumada*, T. O'Brien, P. Alvarez-Loayza, K. Boekee, A. Campos-Arceiz, D. Eichberg, S. Espinosa, E. Fegraus, C. Fletcher, K. Gajapersad,

- C. Hallam, M. Hockemba, J. Hurtado, P. Jansen, A. Kumar, E. Larney, M. Lima, C. Mahony, E. Martin, A. McWilliam, B. Mugerwa, J. Razafimahaimodison, H. Romero-Saltos, F. Rovero, J. Salvador, F. Santos, D. Sheil, W. Spironello, M. Willig, N. Winarni, A. Zvoleff and S. Andelman. (2016). Standardized assessment of biodiversity trends in tropical forest protected areas: The end is not in sight. *PLOS Biology* 14(1): e1002357. (*both authors contributed equally)
17. Rowan, J., Kamilar, J.M., **Beaudrot, L.** and K.E. Reed. (2016). Strong influence of paleoclimate on the structure of modern African mammal communities. *Proceedings of the Royal Society B*. 283: 20161207. doi: 10.1098/rspb.2016.1207
16. **Beaudrot, L.**, Kroetz, K., Alvarez-Loayza, P., Amaral, I., Breuer, T., Breuer Hockemba, M., Fletcher, C., Jansen, P., Kenfack, D., Lima, M., Marshall, A.R., Martin, E.H., O'Brien, T., Razafimahaimodison, J.C., Romero-Saltos, H., Rovero, F., Roy, C.H., Sheil, D., Silva, C.E.F., Spironello, W.R., Valencia, R., Zvoleff, A., Ahumada, J. and S. Andelman. (2016). Limited carbon and biodiversity co-benefits for tropical forest mammals and birds. *Ecological Applications*. 26(4):1098-1111. doi: 10.1890/15-0935.1
15. Belmaker, J., Zarnetske, P.L, Tuanmu, M.-N., Zonneveld, S., Record, S., Strecker, A.L. and **L. Beaudrot**. (2015). Empirical evidence for the scale-dependence of biotic interactions. *Global Ecology and Biogeography*. doi: 10.1111/geb.12311
14. Kamilar, J.K., **Beaudrot, L.** and K.E. Reed. (2015). Climate and species richness predict the phylogenetic structure of African mammal communities. *PLoS ONE*. 10(4): e0121808. doi: 10.1371/journal.pone.0121808
13. Dillis, C., **Beaudrot, L.**, Clink, D.J., Feilen, K.L., Wittmer, H.U. and A.J. Marshall. (2015). Modeling the ecological and phenological predictors of fruit consumption by gibbons (*Hylobates albibarbis*). *Biotropica*. 47(1): 85-93.
12. **Beaudrot, L.**, Kamilar, J.K., Marshall, A.J. and K.E. Reed. (2014). African primate assemblages exhibit a latitudinal gradient in dispersal limitation. *International Journal of Primatology*. 35:1088-1104. doi: 10.1007/s10764-014-9773-5
11. Kamilar, J.K., **Beaudrot, L.** and K.E. Reed. (2014). The influences of species richness and climate on the phylogenetic structure of African Haplorhine and Strepsirrhine primate communities. *International Journal of Primatology*. 35:1105-1121. doi: 10.1007/s10764-014-9784-2
10. Marshall, A.J., **Beaudrot, L.** and H.U. Wittmer. (2014). Responses of primates and other frugivorous vertebrates to plant resource variability over space and time at Gunung Palung National Park. *International Journal of Primatology*. 35:1178-1201. doi: 10.1007/s10764-014-9774-4
9. Kamilar, J.K., **Beaudrot, L.** and K.E. Reed. (2014). Advances in primate community

- ecology research across spatial, temporal and phylogenetic scales. *International Journal of Primatology*. 35:1083-1087. doi: 10.1007/s10764-014-9804-2
8. **Beaudrot, L.**, Rejmanek, M., and A.J. Marshall. (2013). Dispersal modes affect tropical forest assembly across trophic levels. *Ecography*. doi: 10.1111/j.1600-0587.2013.00122.x **Selected as an Editor's Choice article by *Ecography*
 7. **Beaudrot, L.**, Struebig, M.J., Meijaard, E., van Balen, S., Husson, S., and A.J. Marshall (2013). Co-occurrence patterns of Bornean vertebrates suggest competitive exclusion is strongest among distantly related species. *Oecologia*, 173: 1053-1062. doi:10.1007/s00442-013-2679-7
 6. **Beaudrot, L.**, Struebig, M.J., Meijaard, E., van Balen, S., Husson, S., Young, C.Y. and A.J. Marshall. (2013). Interspecific interactions between primates, birds, bats and squirrels may affect community composition on Borneo. *American Journal of Primatology*. 75:170-185. doi: 10.1002/ajp.22095
 5. Kamilar, J.K. and **L. Beaudrot**. (2013). Understanding primate communities: recent developments and future directions. *Evolutionary Anthropology*. 22:174–185. doi: 10.1002/evan.21361
 4. **Beaudrot, L.** and A.J. Marshall. (2011). Primate communities are structured more by dispersal limitation than by niches. *Journal of Animal Ecology*, 80:332-341. doi: 10.1111/j.1365-2656.2010.01777.x **Following original publication, the article was subsequently highlighted in a special edition of the *Journal of Animal Ecology* entitled “Animal Ecology – Legacy of Charles S Elton.”
 3. **Beaudrot, L.**, YanJu, D., Rahman, K., Rejmanek, M. and R. Harrison. (2011). Do epigeal termite mounds increase diversity of plant habitats in a tropical rain forest in Peninsular Malaysia? *PLoS ONE* 6(5): e19777. doi:10.1371/journal.pone.0019777
 2. **Beaudrot, L.**, Kahlenberg, S., and A. Marshall. (2009). Why male orangutans do not kill infants. *Behavioral Ecology and Sociobiology*, 63:1549-1562. doi 10.1007/s00265-009-0827-1. **In top 10 downloads from the *BES* website 2009.
 1. Knott, C., **Beaudrot, L.**, Snaith, T., White, S., Tschauner, H., and G. Planansky. (2008). Female-female competition in Bornean orangutans. *International Journal of Primatology*, 29:975-997. doi 10.1007/s10764-008-9278-1

PEER-REVIEWED BOOK CHAPTER

1. Kamilar, J.M. and **L. Beaudrot**. (In Press). Quantitative Methods for Primate Biogeography and Macroecology. In *GPS and GIS for Primatologists: A Practical Guide to Spatial Analysis*. Edited by Shaffer, C.A., Dolins, F., Highey, J.R., Nibbelink, N.P. and L. Porter.

CONFERENCE PODIUM PRESENTATIONS

Ecological Society of America 101th Annual Meeting, Ft. Lauderdale, FL August 2016
Synergistic effects of temperature and community composition on tropical mammals

International Primatological Society & American Society of Primatologists August 2016
Joint Meeting, Chicago, IL. *African primate vulnerability to climate change*

Ecological Society of America 99th Annual Meeting, Sacramento, CA August 2014
Do tropical forests with higher above ground carbon storage support more endothermic terrestrial species?

Ecological Society of America 98th Annual Meeting, Minneapolis, MN August 2013
Latitudinal gradients in African mammal dispersal limitation

American Association of Physical Anthropology 83th Annual Meeting, TN April 2013
Correlates of dispersal limitation in African mammal communities

Ecological Society of America 97th Annual Meeting, Portland, OR August 2012
The co-assembly of tropical plant communities and their vertebrate seed dispersers

American Association of Physical Anthropology 82th Annual Meeting, OR April 2012
Co-occurrence patterns suggest that interspecific competition shapes communities of primates, birds, bats and squirrels in Borneo

UC Davis, Graduate Student Symposium in Ecology February 2012
Dispersal limitation of vertebrate seed-dispersers affects tree community composition

Ecological Society of America 96th Annual Meeting, Austin, TX August 2011
Tropical forest primate communities are structured more by dispersal limitation than by species sorting along environmental gradients

UC Berkeley, Bay Area Conservation Biology Symposium February 2011
Primate communities are structure more by dispersal limitation than by niches

UC Davis, Graduate Student Symposium in Ecology February 2011
Primate communities are structure more by dispersal limitation than by niches

UC Davis, Interdisciplinary Graduate Symposium April 2010
Do termite mounds increase the diversity of plant niches in a tropical rain forest?

UC Davis, Graduate Student Symposium in Ecology February 2009
Why orangutan males don't kill infants

CONFERENCE POSTER PRESENTATIONS

American Association of Physical Anthropology 80th Annual Meeting, NM April 2011
Testing Fox's Assembly Rule with Bornean Vertebrates

American Association of Physical Anthropology 79th Annual Meeting, MN April 2010
Why Male Orangutans Don't Kill Infants

INVITED SEMINARS

Rice University, Biological Sciences Department & Data Sciences February 2017
Big data and analytics for global conservation

Simon Fraser University, Biological Sciences Department February 2017
Community assembly of tropical mammal from global to local scales

Marquette University, Biological Sciences Department December 2016
Tropical mammal community assembly from global to local scales

U Michigan, Michigan Society of Fellows, Dinner Series October 2016
What can 'big data' tell us about tropical wildlife conservation?

Conservation International, Inside Science Seminar Series April 2016
TEAM Insights: Wildlife trends with Jorge Ahumada

U Michigan, School of Natural Resources and the Environment, February 2015
 Conservation Ecology Seminar Series
Terrestrial vertebrate conservation in tropical forest protected areas

U Michigan, Ecology & Evolutionary Biology Seminar Series December 2015
Macroecology of environmental filtering and dispersal in tropical vertebrate communities

U Michigan, Michigan Society of Fellows, Lunch Colloquium Series December 2015
Conservation insights from a pantropical camera trap network

Middlebury College, Environmental Studies Colloquium Series November 2015
Conservation Biology: Looking forward with an eye on the rearview mirror

University of California, Davis November 2013
Determinants of tropical vertebrate community composition

GUEST LECTURES

UC Davis, Evolution and Ecology 198: Conservation Biology Seminar February 2012
Biogeography of primate communities: implications for reserve design

UC Davis, Anthropology 154B: Primate Ecology
Primate conservation status and threats

March 2011

UC Davis, Evolution and Ecology 198: Conservation Biology Seminar February 2011
The role of niche differentiation in structuring primate communities and its implications for conservation

EDITOR

Special Issue on Primate Communities (12/2014), *International Journal of Primatology*

INVITED EXTERNAL REVIEWER

Grants:

Leakey Foundation

U.S. National Academy of Sciences & Higher Education Commission of Pakistan,
 Pakistan – U.S. Science and Technology Cooperation Program

Journals:

American J. of Physical Anthropology

American J. of Primatology

Animal Behaviour

Behavioral Ecology and Sociobiology

Biotropica

Ecography

Ecological Applications

Ecological Research

Frontiers in Ecology & the Environment

Global Ecology and Conservation

International J. of Primatology

Journal of Biogeography

Mammalia

Nature Ecology & Evolution

Oecologia

Oikos

PLOS Biology

Proceedings B

Science Advances

MEDIA COVERAGE

Beaudrot et al. (2016) *Plos Biology*

PBS NewsHour Television Interview: <http://www.pbs.org/video/2365650068/>

University of Michigan Video:

<https://www.youtube.com/watch?v=1ByYqUPBX0E> included in

LA Times news article “Say cheese for science: Camera traps show how habitat protection aids biodiversity” (January 19, 2016)

PLOS Biology Synopsis “Hope for Tropical Biodiversity After All”

New Reddit Journal of Science, Conservation Ask Me Anything (July 13, 2016)

News (Includes articles in Spanish, Portuguese, Italian and Slovenian)

AAAS EurekAlert

BBC Mundo

Business Standard (India)

Ecoticias.com	Siasat Daily (India)
Fusion	Social News (India)
International Business	SciDev.net
Times UK	ScienceDaily
LiveScience	Sci-Tech Today
Los Angeles Times	Thompson Reuters Foundation
Mongabay	Michigan News
National Geographic Italy	Michigan News Global
PBS.org	Zee News (India)
	3News NZ (New Zealand)

Phys.org

Rowan, Kamilar, Beaudrot and Reed (2016) *Proceedings B*

ClimateWire
Michigan News
Phys.org

TEACHING EDUCATION & TRAINING

U Michigan, LSA Teaching Academy 2015
UC Davis, Education 398: Seminar on College Teaching
UC Davis, Professor for the Future Program, Teaching Retreat with Video Consultation

ACADEMIC TEACHING EXPERIENCE (Instructor)

U Michigan, EEB 410 Undergraduate EEB Major Capstone Seminar	Winter 2017
U Michigan, EEB 401/NRE 501/PitE 463 Climate Change & Conservation	Winter 2016
U Michigan, Ecology & Evolutionary Biology 300: Independent Research	Fall 2015
UC Davis, Anthropology 199: Special Study for Advanced Undergraduates	Fall 2011

ACADEMIC TEACHING EXPERIENCE (Teaching Assistant)

UC Davis, Wildlife Fish & Conservation Biology 110: Mammalogy	Spring 2012
UC Davis, Anthropology 158: Biological Bases of Sex Differences	Winter 2012
UC Davis, Biological Sciences 2B: Principles of Ecology and Evolution	Fall 2011

PROFESSIONAL DEVELOPMENT TEACHING EXPERIENCE

UC Davis, Ecology 298: Public Speaking & Improving Presentations	Spring 2012
UC Davis, Science and Society 5: Career Discovery Seminar	Winter 2011
UC Davis, Science and Society 98: Positioning Yourself for Success	Fall 2010

SERVICE

U Michigan Early Career Scientist Symposium Committee	2015-2016
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UC Davis Graduate Group in Ecology Awards Committee	2011-2012
UC Davis Graduate Student Symposium in Ecology Chair	2010-2011
Society for Conservation Biology UC Davis Chapter Treasurer	2010-2011
Society for Conservation Biology Fundraising Event Committee Member	2009-2010
UC Davis Graduate Student Symposium in Ecology Fundraising Chair	2009-2010
UC Davis Graduate Group in Ecology Odyssey Orientation TA	2009-2010
UC Davis Ecology Mardi Gras Charity Event Fundraising Member	2008-2009
UC Davis Graduate Student Association Representative	2008-2009

REFERENCES

Dr. Andrew J. Marshall, Associate Professor (PhD Advisor)
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University of Michigan
1085 S. University Ave., Ann Arbor, Michigan 48109
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Tropical Ecology Assessment and Monitoring (TEAM) Network
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Dr. Marcel Rejmánek, Professor (Dissertation Committee Member)
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ADDITIONAL REFERENCES AVAILABLE UPON REQUEST

Dr. Jason M. Kamilar, Assistant Professor (Dissertation Committee Member)
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Dr. Alexander H. Harcourt, Professor Emeritus (Dissertation Committee Member)
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Dr. Sharon Lawler, Professor (Graduate Program Chair)
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Dr. Kaye Reed, President's Professor
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