

# Jason M. Kamilar

## *Curriculum vitae*

### CONTACT INFORMATION

Department of Anthropology  
University of Massachusetts  
Amherst, Massachusetts 01003  
Office: Machmer Hall Room 102  
Lab: Machmer Hall Room W16  
Office Phone: 413.545.7397  
E-mail: [jkamilar@umass.edu](mailto:jkamilar@umass.edu)  
Website: <http://www.kamilarlab.org>  
Twitter: <http://twitter.com/jasonkamilar>

### PROFESSIONAL APPOINTMENTS

- 2015 - **Assistant Professor**, Department of Anthropology, University of Massachusetts, Amherst
  
- 2015 - **Faculty**, Graduate Program in Organismic and Evolutionary Biology, University of Massachusetts, Amherst
  
- 2015 - **Curator of Primates**, Natural History Collections, University of Massachusetts, Amherst
  
- 2016 - **Faculty Affiliate**, Computational Social Science Institute, University of Massachusetts, Amherst
  
- 2011 - 2015 **Research Assistant Professor**, Department of Anatomy, Arizona College of Osteopathic Medicine, Midwestern University
  
- 2011 - 2015 **Adjunct Faculty**, School of Human Evolution and Social Change, Arizona State University
  
- 2009 - 2011 **Postdoctoral Research Associate**, Department of Anthropology and Molecular Anthropology Laboratory, Yale University
  
- 2006 - 2009 **Postdoctoral Fellow** and **Research Associate**, Department of Anthropology, Washington University, St. Louis
  
- 2008 - 2009 **Adjunct Instructor**, Department of Sociology and Criminal Justice, St. Louis University
  
- 2003 - 2006 **Editorial Assistant** for *Evolutionary Anthropology*, Department of Anatomical Sciences, Stony Brook University
  
- 2003 - 2006 **Academic Advisor**, Academic and Pre-Professional Advising Center, Stony Brook University
  
- 2004 - 2005 **Instructor**, Department of Anthropology, Stony Brook University

**EDUCATION**

- 1999 - 2006 **Ph.D.** Anthropological Sciences, Stony Brook University
- 1994 - 1999 **B.A.** Anthropology, Arizona State University
- 1994 - 1999 **B.S.** Life Sciences, Arizona State University

**GRANTS**

- 2016 **College of Social and Behavioral Sciences Research Support Grant, University of Massachusetts Amherst**, “Generating Pilot Data to Understand Primate Hair Microbiomes” (\$4,000)
- 2016 - 2019 **National Science Foundation** (Biological Anthropology), PI with Kaye Reed (Arizona State University), “Understanding Temporal Variation in Primate Communities: Integrating Data from Extant and Fossil Species” (\$274,399)
- 2014 - 2018 **National Science Foundation** (Biological Anthropology), PI with Brenda Bradley (George Washington University), “The Evolution of Hair and Fur: Proximate and Ultimate Mechanisms Shaping Primate Pelage Variation” (\$204,239)
- 2013 - 2016 **Wenner-Gren Foundation Research Grant**, PI with Brenda Bradley (George Washington University), “The Evolution of Primate Hair Morphology: A Comparative Approach” (\$18,819)
- 2009 **International Primatological Society Research Grant**, “The Evolution of Primate Pelage Coloration Using Melanin Pigments: A Pilot Study” (\$1,500)
- 2008 - 2011 **Leakey Foundation Research Grant**, “The Evolutionary Ecology of Primate Pelage Color Variation” (\$18,500)
- 2005 - 2006 **National Science Foundation Dissertation Improvement Grant**, “Intraspecific Variation in Primate Behavior and Ecology” (\$6,867)

**AWARDS**

- 2017 - 2018 **Institute of Social Science Research Scholar, University of Massachusetts Amherst**
- 2011 **Postdoctoral Scholar Travel Award, Yale University** (\$1,000)
- 2007 **Thomas J. Dee Fellowship, Field Museum of Natural History** (\$1,000)
- 2006 **Sigma Xi Travel Award** (\$200)
- 2005 **Podium Presentation Student Prize** awarded at the 5th Göttinger Freilandtage, Germany. Primate diversity: Past, present and future (\$125)
- 2005 **Best Student Poster Honorable Mention (with Kerry Ossi)**, awarded at the 74<sup>th</sup> annual meeting of the American Association of Physical Anthropologists by the Primate Biology and Behavior Interest Group

- 2004           **Sigma Xi Award for Excellence in Research**
- 2004           **The Sherwood Washburn Student Prize** awarded at the 73<sup>rd</sup> annual meeting of the American Association of Physical Anthropologists (\$300)

**GUEST EDITOR**

- 2014           **Kamilar JM**, Beaudrot L, Reed KE, eds. Understanding primate communities across spatial, temporal and phylogenetic scales. *International Journal of Primatology*.

**PEER-REVIEWED ARTICLES AND BOOK CHAPTERS** (\*indicates student co-author)

- In prep       **Kamilar JM** and Beaudrot L. Environmental stressors on primate populations. To be submitted to *Annual Review of Anthropology*.
- In revision   Baden AL, Federman S\*, **Kamilar JM**, Holmes S\*, Johnson SE, Louis Jr. EE, Bradley BJ. Range-wide landscape genetics of a critically endangered Malagasy strepsirrhine, *Varecia variegata*. *Landscape Ecology*.
- In revision   Locke EM\* and **Kamilar JM**. The biogeography and evolution of African catarrhine climatic niches. *Journal of Human Evolution*.
- In revision   Winters S\*, **Kamilar JM**, Webster TH, Bradley BJ, Higham JP. Primate camouflage as seen by felids, raptors, and conspecifics. *Journal of Evolutionary Biology*.
- In press       **Kamilar JM**. Biogeography. *The International Encyclopedia of Primatology*. A Fuentes, ed. Hoboken: John Wiley & Sons.
- In press       **Kamilar JM** and Beaudrot L. Quantitative methods for primate biogeography and macroecology. *GPS and GIS for primatologists: A practical guide to spatial analysis*. CA Shaffer, F Dolins, JR Hickey, NP Nibbelink, L Porter, eds. Cambridge: Cambridge University Press.
- 2016           Baden AL, Webster TH\*, **Kamilar JM**. Resource seasonality and reproductive state predict fission-fusion dynamics in a Malagasy strepsirrhine, *Varecia variegata*. *American Journal of Primatology* 78: 256-279.
- 2016           Borries C, Sandel AA\*, Koenig A, Fernandez-Duque E, **Kamilar JM**, Amoroso CR\*, Barton RA, Bray J\*, DiFiore A, Gilby IC, Gordon AD, Mundry R, Port M, Powell LE\*, Pusey AE, Spriggs A\*, Nunn CL. Transparency, usability, and reproducibility: guiding principles for improving comparative databases using primates as examples. *Evolutionary Anthropology* 25: 232-238.
- 2016           **Kamilar JM**, Blanco M, Muldoon KM. Ecological niche modeling of mouse lemurs and its implications for their species diversity and biogeography. *Dwarf and mouse lemurs of Madagascar: Biology, behavior and conservation biogeography of the Cheirogaleidae*. SM Lehman, U Radespiel, E Zimmermann, eds. Cambridge: Cambridge University Press. pp. 449-461.

- 2016 **Kamilar JM** and Tecot SR. Anthropogenic and climatic effects on the distribution of *Eulemur* species: An ecological niche modeling approach. *International Journal of Primatology* 37: 47-68.
- 2016 Kelley EA, Jablonski NG, Chaplin G, Sussman RW, **Kamilar JM**. Behavioral thermoregulation in *Lemur catta*: The significance of sunning and huddling behaviors. *American Journal of Primatology* 78: 745-754.
- 2016 Lazagabaster IA\*, Rowan J\*, **Kamilar JM**, Reed KE. Evolution of craniodental correlates of diet in African Bovidae. *Journal of Mammalian Evolution*.
- 2016 Moore BA, Tyrrell LP, **Kamilar JM**, Collin SP, Dominy NJ, Hall MI, Heesy CP, Johnsen S, Lisney TJ, Loew ER, Moritz G, Nava S, Warrant EJ, Yopak KE, Fernandez-Juricic E. Structure and functions of regional specializations in vertebrate retinas. *Evolution of Nervous Systems*, 2<sup>nd</sup> edition, JH Kaas, ed. New York: Elsevier Publishers. pp. 351-372.
- 2016 Rowan J\*, **Kamilar JM**, Beaudrot L, Reed KE. Strong influence of paleoclimate on the structure of modern African mammal communities. *Proceedings of the Royal Society B* 283: 20161207.
- 2015 **Kamilar JM** and Tecot SR. Connecting proximate mechanisms and evolutionary patterns: Pituitary gland size and mammalian life history. *Journal of Evolutionary Biology* 28: 1997-2008.
- 2015 **Kamilar JM**, Beaudrot L, Reed KE. Climate and species richness predict the phylogenetic structure of African mammal communities. *PLoS ONE* 10: e0121808. doi:10.1371/journal.pone.0121808.
- 2014 Anestis SF, Webster TH\*, **Kamilar JM**, Fontenot B, Watts DP, Bradley BJ. AVPR1A variation in chimpanzees (*Pan troglodytes*): Population differences and association with behavioral style. *International Journal of Primatology* 35: 305-324.
- 2014 Beaudrot L\*, **Kamilar JM**, Marshall AJ, Reed KE. African primate assemblages exhibit a latitudinal gradient in dispersal limitation. *International Journal of Primatology* 35: 1088-1104.
- 2014 **Kamilar JM** and Atkinson QD. Cultural assemblages show nested structure in humans and chimpanzees but not orangutans. *Proceedings of the National Academy of Sciences USA* 111: 111-115.
- 2014 **Kamilar JM** and Baden AL. What drives flexibility in primate social organization? *Behavioral Ecology and Sociobiology* 68: 1677-1692.
- 2014 **Kamilar JM**, Beaudrot L\*, Reed KE. Advances in primate community ecology research across spatial, temporal and phylogenetic scales. *International Journal of Primatology* 35: 1083-1087.

- 2014 **Kamilar JM**, Beaudrot L\*, Reed KE. 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.
- 2013 **Kamilar JM** and Beaudrot L.\* Understanding primate communities: Recent developments and future directions. *Evolutionary Anthropology* 22: 174-185.
- 2013 **Kamilar JM** and Cooper N. Phylogenetic signal in primate behaviour, ecology, and life history. *Philosophical Transactions of the Royal Society B* 368: 20120341.
- 2013 **Kamilar JM**, Heesy CP, Bradley BJ. Did trichromatic color vision and red hair color co-evolve in primates? *American Journal of Primatology* 75: 740-751.
- 2013 Tecot SR, Baden AL\*, Romine N\*, **Kamilar JM**. Reproductive strategies and infant care in the Malagasy primates. In: *Building Babies: Proximate and Ultimate Perspectives of Primate Developmental Trajectories*, K. Clancy, K. Hinde, and J. Rutherford, eds. New York: Springer Press. pp. 321-359.
- 2012 Cooper N, **Kamilar JM**, Nunn CL. Host longevity and parasite species richness in mammals. *PLoS ONE* 7: e42190. doi:10.1371/journal.pone.0042190.
- 2012 Hall MI, **Kamilar JM**, Kirk EC. Eye shape and the nocturnal bottleneck of mammals. *Proceedings of the Royal Society B* 279: 4962-4968.
- 2012 **Kamilar JM** and Marshack JL.\* Does geography or ecology best explain 'cultural' variation among chimpanzee communities? *Journal of Human Evolution* 62: 256-260.
- 2012 **Kamilar JM**, Muldoon KM, Lehman SM, Herrera JP.\* Testing Bergmann's rule and the resource seasonality hypothesis in Malagasy primates using GIS-based climate data. *American Journal of Physical Anthropology* 147: 401-408.
- 2012 Moore BA\*, **Kamilar JM**, Collin SP, Bininda-Emonds ORP, Dominy NJ, Hall MI, Heesy CP, Johnsen S, Lisney TJ, Loew ER, Moritz G\*, Nava S, Warrant EJ, Yopak KE, Fernandez-Juricic E. A novel method for comparative analysis of retinal specialization traits from topographic maps. *Journal of Vision* 12: 13. doi:10.1167/12.12.13.
- 2012 Pointer MA, **Kamilar JM**, Warmuth V\*, Chester SGB\*, Delsuc F, Mundy NI, Asher RJ, Bradley BJ. RUNX2 tandem repeats and the evolution of facial length in placental mammals. *BMC Evolutionary Biology* 12: 103. doi:10.1186/1471-2148-12-103.
- 2012 Tecot SR, Baden AL\*, Romine N\*, **Kamilar JM**. Infant parking and nesting, not allomaternal care, influence Malagasy primate life histories. *Behavioral Ecology and Sociobiology* 66: 1375-1386.

- 2011 Hall MI, Kirk EC, **Kamilar JM**, Carrano MT. Technical Comment on “Nocturnality in dinosaurs inferred from scleral ring and orbit morphology”. *Science* 334: 1641.
- 2011 Heesy CP, **Kamilar JM**, Willms J.\* Retinogeniculostriate pathway components only scale with orbit convergence in primates and not other mammals. *Brain, Behavior, and Evolution* 77: 105–115.
- 2011 **Kamilar JM** and Bradley BJ. Countershading is related to positional behavior in primates. *Journal of Zoology* 283: 227-233. *Cover Article*.
- 2011 **Kamilar JM** and Bradley BJ. Interspecific variation in primate coat color supports Gloger’s rule. *Journal of Biogeography* 38: 2270-2277.
- 2011 **Kamilar JM** and Ledogar JA.\* Species co-occurrence patterns and dietary resource competition in primates. *American Journal of Physical Anthropology* 144:131–139.
- 2011 Wheeler BC, Bradley BJ, **Kamilar JM**. Predictors of orbital convergence in primates: A test of the snake detection hypothesis of primate evolution. *Journal of Human Evolution* 61: 233-242.
- 2010 **Kamilar JM**, Bribiescas RG, Bradley BJ. Is group size related to longevity in mammals? *Biology Letters* 6: 736-739.
- 2010 **Kamilar JM** and Guidi LM.\* The phylogenetic structure of primate communities: Variation within and across regions. *Journal of Biogeography* 37: 801-813.
- 2010 **Kamilar JM** and Muldoon KM. The climatic niche diversity of Malagasy primates: A phylogenetic approach. *PLoS ONE* 5: e11073. doi:10.1371/journal.pone.0011073.
- 2009 **Kamilar JM**. Environmental and geographic correlates of the taxonomic structure of primate communities. *American Journal of Physical Anthropology* 139: 382–393.
- 2009 **Kamilar JM**. Interspecific variation in primate countershading: Effects of activity pattern, body mass, and phylogeny. *International Journal of Primatology* 30: 877–891.
- 2009 **Kamilar JM**, Martin SK\*, Tosi AJ. Combining biogeographic and phylogenetic data to examine primate speciation: An example using cercopithecine monkeys. *Biotropica* 41: 514-519.
- 2009 Pontzer H and **Kamilar JM**. Great ranging associated with greater reproductive investment in mammals. *Proceedings of the National Academy of Sciences USA* 106: 192-196.
- 2008 **Kamilar JM** and Pokempner AA.\* Does body mass dimorphism increase male-

female dietary niche separation? A comparative study of primates. *Behaviour* 145: 1211-1234.

- 2008 **Kamilar JM** and Paciulli LM. Examining the extinction risk of specialized folivores: A comparative study of colobine monkeys. *American Journal of Primatology* 70: 816-827.
- 2006 **Kamilar JM**. Geographic variation in savanna baboon (*Papio*) ecology and its taxonomic and evolutionary implications. In: *Primate Biogeography*, SM Lehman and JG Fleagle, eds. New York: Springer Press. pp. 169-200.
- 2006 Ossi KM\* and **Kamilar JM**. Environmental and phylogenetic correlates of *Eulemur* behavior and ecology (Primates: Lemuridae). *Behavioral Ecology and Sociobiology* 61: 53-64.
- 2005 **Kamilar JM** and Roehrdanz N.\* Old World monkeys. In: *Encyclopedia of Anthropology*, H.J. Birx, ed. Thousand Oaks: Sage Publications.

#### ADDITIONAL PUBLICATIONS

- 2012 **Kamilar JM**. Introduction to data analysis. Midwestern University's Office of Research and Sponsored Programs Research Handbook. pp. 157 -191.
- 2010 **Kamilar JM**. Book review: *The fruit, the tree, and the serpent: Why we see so well*. By Lynne A. Isbell. *Quarterly Review of Biology* 85: 121.
- 2007 Fleagle JG and **Kamilar JM**. Primate diversity: Past, present and future. *Evolutionary Anthropology* 16: 83-85.
- 2006 **Kamilar JM**. Monkeys: Old and new. *Evolutionary Anthropology* 15: 121-122.
- 2006 **Kamilar JM**. and Muldoon KM. Physical anthropology in the Last Frontier. *Evolutionary Anthropology* 15: 125-126.
- 2006 **Kamilar JM** and Nash LT. Primates in the Great Northwest. *Evolutionary Anthropology* 15: 39.
- 2005 **Kamilar JM** and Coleman MN. Primate ecology and evolution at the American Association of Physical Anthropology meeting. *Evolutionary Anthropology* 14: 207-208.
- 2005 Young JW, Patel BA, **Kamilar JM**. New findings from integrative and comparative research. *Evolutionary Anthropology* 14: 88-89.
- 2004 **Kamilar J** and Heesy CP. Recent advances in primate ecology and evolution. *Evolutionary Anthropology* 13: 168-169.

#### INVITED PRESENTATIONS

- Mar 2017 *Climatic and anthropogenic effects on African mammal macroecology*. Department of Anatomical Sciences, Stony Brook University.

- Mar 2017 *Climatic and anthropogenic effects on African mammal macroecology.* Department of Evolutionary Anthropology, Duke University.
- Nov 2016 *The ecology and evolution of primate hair traits.* 4@4, College of Social and Behavioral Sciences, University of Massachusetts Amherst
- Oct 2016 *Climatic and anthropogenic effects on African mammal macroecology.* Graduate Program in Organismic and Evolutionary Biology Seminar Series, University of Massachusetts Amherst.
- Apr 2016 *The ecology and evolution of primate biodiversity.* BioTAP Seminar Series, Commonwealth Honors College, University of Massachusetts Amherst.
- Mar 2015 *Climatic and anthropogenic effects on African mammal macroecology.* Program in Spatial Biodiversity Science and Conservation, Yale University.
- Nov 2014 *Comparative approaches to understanding primate behavior, ecology, and evolution.* Department of Anthropology, University of Massachusetts Amherst.
- Jan 2014 *Comparative approaches to understanding the evolution of primate behavior and ecology.* School of Anthropology, University of Arizona.
- Feb 2013 *Comparative approaches to understanding primate behavior and ecology.* Department of Anthropology, East Carolina University.
- Feb 2013 *Ecology and evolution of primate hair coloration.* Department of Sociology, Anthropology, and Philosophy, Northern Kentucky University.
- Nov 2012 *The ecology and evolution of primate hair coloration.* Department of Anatomy, Arizona College of Osteopathic Medicine, Midwestern University.
- Apr 2011 *Comparative and molecular approaches to understanding primate diversity.* Department of Anthropology, Florida Atlantic University.
- Mar 2011 *Comparative and molecular approaches to understanding primate coloration.* Comparative Primatology Research Group, Department of Human Evolutionary Biology, Harvard University.
- Jul 2010 *Ecological and evolutionary perspectives on primate biodiversity.* Jetz Research Group, Department of Ecology and Evolutionary Biology, Yale University.
- Feb 2010 *Comparative approaches to understanding primate diversity.* School of Anthropology, University of Arizona.
- Feb 2010 *Comparative approaches to understanding primate diversity.* Department of Anthropology, Yale University.
- Feb 2009 *A comparative approach to understanding the behavioral and ecological diversity of primates.* Department of Anthropology, California State University,



Los Angeles.

- Feb 2009 *Using GIS and phylogenetic analyses to examine macroecological patterns in primates*. Population Biology Seminar Series, Duke University.
- Jun 2008 *Anthropogenic impacts on current biodiversity loss*. Department of Biology, Kutztown University of Pennsylvania.
- Mar 2008 *Geographic variation in primate behavior and ecology: A comparative approach*. Department of Anthropology, CUNY Hunter College.
- Feb 2008 *Biogeographic variation in primate behavior and ecology*. Department of Anthropology, SUNY Buffalo State College.
- Feb 2007 *Geographic variation in primate ecology: A climatic and evolutionary perspective*. Evolution, Ecology, and Population Biology Group, Washington University, St. Louis.
- Dec 2005 *How do environmental and historical effects shape primate communities?* Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany.
- Aug 2005 *Environmental and historical effects on the composition of anthropoid primate communities*. Primate Interest Group, University of California, Berkeley.

#### **ORGANIZED SYMPOSIA**

- Apr 2013 *Understanding Primate Communities Across Spatial, Temporal and Phylogenetic Scales*. Podium Session at the Annual Meeting of the American Association of Physical Anthropologists. Co-organized with Kaye Reed (Arizona State University) and Lydia Beaudrot (UC Davis).

#### **ORGANIZED WORKSHOPS**

- May 2016 *Workshop on Owl Monkey Behavior, Ecology, and Evolution*. Funded by Yale University's Edward J. and Dorothy Clarke Kempf Memorial Fund (\$15,000). Co-organized with Eduardo Fernandez-Duque (Yale University) and Brenda Bradley (George Washington University).

#### **SYMPOSIUM AND WORKSHOP PARTICIPATION**

- May 2014 Instructor at *The AnthroTree Workshop*. A three-day course that provides hands-on experience to evolutionary anthropologists interested in learning phylogenetic comparative methods. Organized by Charles Nunn (Duke University) and funded by the National Science Foundation.
- May 2014 Participant at the *Comparative Primatology: Data Collection, Storage, and Analysis Workshop*. Department of Evolutionary Anthropology, Duke University. Organized by Charles Nunn (Duke University).
- Dec 2012 Invited speaker at the *Primate Society of Great Britain Meeting: Primate Biogeography*. Talk title: *The biogeography of primate communities: Ecological*

*and evolutionary perspectives*. Organized by Sarah Elton (Durham University) and Helen Chatterjee (University College London).

- Dec 2011 Invited speaker at the *8th Göttinger Freilandtage: Behavioral Constraints and Flexibility*. Talk title: *Phylogenetic signal in primate behavior, ecology, and life history*. Organized by Peter Kappeler (Göttingen University and German Primate Center).
- Jun 2010 Instructor at *The AnthroTree Workshop*. A three-day course that provides hands-on experience to evolutionary anthropologists interested in learning phylogenetic comparative methods. Organized by Charles Nunn (Harvard University) and funded by the National Science Foundation.
- Apr 2010 Discussant at the *Lemur Senescence Symposium*. Department of Anthropology, Yale University. Organized by Richard Bribiescas (Yale University).
- 2009 - 2013 Member of the *Evolutionary Shifts in Vertebrate Visual Ecology and Visual System Morphology* working group. Funded by the National Evolutionary Synthesis Center (NESCent), Durham, North Carolina. Organized by Christopher Heesy, Margaret Hall (Midwestern University), and Andrew Iwaniuk (University of Lethbridge).

#### **FIELD, MUSEUM, AND LABORATORY EXPERIENCE**

- 2009 - I have experience with several molecular laboratory techniques including DNA/RNA extraction, cDNA synthesis, quantitative PCR, gel electrophoresis, and library preparation.
- 2005 - I have conducted research at the *American Museum of Natural History*, *Belgium's Royal Museum for Central Africa*, *Berkeley's Museum of Vertebrate Zoology*, *Field Museum of Natural History*, and *Yale University Peabody Museum of Natural History*.
- Feb - Jun 2002 *Phu Khieo Wildlife Sanctuary*, Thailand. I collected ecological and behavioral data on Phayre's langurs (*Trachypitecus phayrei*), initialized the habituation of rhesus macaques (*Macaca mulatta*), and collected primate and large mammal population density data. Directed by Andreas Koenig and Carola Borries.
- Feb - Jun 2001 *Mondika Research Station*, Central African Republic. I collected ecological and behavioral data on agile mangabeys (*Cercocebus agilis*), assisted in the study and habituation of western lowland gorillas (*Gorilla gorilla gorilla*), and participated in phenological surveys. Directed by Diane Doran.

#### **TEACHING EXPERIENCE**

##### **Instructor of Record**

- 2017 Advanced Primate Ecology and Evolution (graduate seminar)
- 2017 Research Methods and Statistics in Anthropology (undergraduate lecture and

lab)

- 2016      Advanced Quantitative Methods in Anthropology (advanced undergraduate and graduate seminar)
- 2016      Human Origins and Variation (undergraduate lecture)
- 2015, 2016      Primate Behavior (undergraduate lecture)
- 2014      Quantitative Methods in Evolutionary Anthropology (graduate seminar)
- 2009, 2011      Introduction to Biological Anthropology (undergraduate lecture and lab)
- 2009      Introduction to Human Evolution (undergraduate lecture)
- 2008, 2009      Introduction to Anthropology (undergraduate lecture)
- 2007, 2008      Primate Community Ecology (advanced undergraduate and graduate seminar)
- 2007, 2008      Primate Conservation (advanced undergraduate and graduate seminar)
- 2006, 2007      Primate Biogeography (advanced undergraduate and graduate seminar)
- 2004, 2005      Primate Evolution (advanced undergraduate lecture and lab)

#### **Teaching Assistant and Lab Instructor**

- 2009      Introduction to Biological Anthropology (undergraduate lecture and lab)
- 2006, 2007      Introduction to Human Evolution (undergraduate lecture)
- 2005      Introduction to Physical Anthropology (undergraduate lecture and lab)
- 2002      Applied Anthropology (undergraduate lecture)

#### **Guest Lectures**

- 2013      *Phylogenetic Comparative Methods in Evolutionary Biology*. Course title: Macroevolution (graduate seminar)
- 2010      *Using Phylogenies in Biological Anthropology*. Course title: Primate Molecular Ecology and Evolution (advanced undergraduate seminar)
- 2010      *What is Evolution?* Course title: Primate Molecular Ecology and Evolution (advanced undergraduate seminar)
- 2009      *Genetics and Agriculture: Past and Present*. Course title: Molecular Anthropology (undergraduate lecture)

#### **STUDENT RESEARCH MENTORSHIP**

- 2016      Alexa Duchesneau. *Anthropogenic effects on orangutan distributions*. University of Massachusetts Amherst.

- 2016 Eric Griffith. *Cortisol levels and brain size in primates*. University of Massachusetts Amherst.
- 2015 Sandra Winters. *Primate camouflage as seen by felids, raptors, and conspecifics*. New York University.
- 2014 Ignacio Lazagabaster. *Understanding the evolution of mammal diets through stable isotope data*. Arizona State University.
- 2014 Ellis Locke. *Predictors of climatic niche flexibility in catarrhine primates*. Arizona State University.
- 2014 John Rowan. *Ecological specialization and lineage diversification in primates and other mammals*. Arizona State University.
- 2014 Irene Smail. *Interspecific competition among African primates and non-primate mammals*. Arizona State University.
- 2013 Lydia Beaudrot. *Understanding primate communities: Recent developments and future directions*. UC Davis.
- 2012 Timothy Webster. *Ultraviolet reflectance of mammal hair and its implications for avian visual predation*. Yale University.
- 2010 James Herrera. *Testing Bergmann's rule in Malagasy primates using GIS-based climate data*. Stony Brook University.
- 2009 Justin Ledogar. *Species co-occurrence patterns and dietary resource competition in primates*. Stony Brook University.
- 2008 Lisa Guidi. *The phylogenetic structure of primate communities: Variation within and across regions*. Washington University.
- 2008 Joseph Orkin. *Does sexual selection affect primate extinction risk?* Washington University.
- 2007 Joshua Marshack. *Examining across-community variation in chimpanzee culture: A quantitative approach*. Washington University.
- 2007 Anna Weyher. *The importance of integrating geographic data into models of baboon social organization variability*. Washington University.
- 2006 Mrinalini Watsa, Daniel Barks, and Kelly Gelpi. *Does the tropical conservatism hypothesis explain the latitudinal gradient of primate species richness?* Washington University.
- 2006 J. Shoshana Rosenberg. *Social behavior of gorillas at the St. Louis Zoo*. Washington University.
- 2005 Sara K. Martin. *The biogeography of Cercopithecini primates and its*

*evolutionary implications*. Stony Brook University.

2004 Kerry M. Ossi. *Environmental and phylogenetic correlates of Eulemur behavior and ecology*. Stony Brook University.

#### **DOCTORAL DISSERTATION ADVISING AND COMMITTEE MEMBERSHIP**

- 2016 - Advisor for Andrew Zamora, Department of Anthropology, University of Massachusetts Amherst.
- 2016 - Co-advisor for Drew Best, Department of Anthropology, University of Massachusetts Amherst.
- 2016 - 2017 Committee member for Andrew John Smith, Graduate Program in Organismic and Evolutionary Biology, University of Massachusetts Amherst. Advisor: Dr. Elizabeth Dumont.
- 2016 - External committee member for Nereyda Falconi, Department of Environmental Conservation, University of Massachusetts Amherst. Advisor: Dr. John Organ.
- 2016 - External committee member for Amanda McGrosky, School of Human Evolution and Social Change, Arizona State University. Advisor: Dr. Gary Schwartz.
- 2016 - External committee member for Trisha Zintel, Molecular and Cellular Biology Program, University of Massachusetts Amherst. Advisor: Dr. Courtney Babbitt.
- 2016 - 2017 Qualifying exam committee member for Abby Vander Linden, Graduate Program in Organismic and Evolutionary Biology, University of Massachusetts Amherst. Advisor: Dr. Elizabeth Dumont.
- 2010 - 2014 External committee member for Lydia Beaudrot, Department of Anthropology and Graduate Group in Ecology, University of California, Davis. Advisor: Dr. Andrew Marshall. Dissertation Title: *The relative role of niche differentiation in structuring tropical forest vertebrate communities across spatial scales*.

#### **MASTER'S THESIS ADVISING AND COMMITTEE MEMBERSHIP**

- 2016 - 2017 External reader for Amanda Fuchs, Department of Anthropology, CUNY Hunter College. Advisor: Dr. Christopher Gilbert. Thesis Title: *Examining the biogeography of baboons using ecological niche models*.
- 2014 - 2015 Committee member for Ellis Locke, School of Human Evolution and Social Change, Arizona State University. Advisor: Dr. Kaye Reed. Thesis Title: *Phylogenetic signal in climatic niche and climatic niche breadth of catarrhine primates*.

#### **UNDERGRADUATE HONORS THESIS ADVISING AND COMMITTEE MEMBERSHIP**

- 2016 Advisor for Maia Batista, Department of Anthropology, University of Massachusetts Amherst. Thesis Title: *Effects of anthropogenic and climatic*

*variables on the distribution of bamboo lemurs.*

**PRESENTATIONS AT PROFESSIONAL CONFERENCES** (\*indicates student co-author)

- 2017 Bradley BJ, **Kamilar JM**, Spriggs AN\*, Wilhelm BC, Walsh S. Pigmentation in a comparative context: Factors shaping variation and convergence in primate pelage patterns. *American Journal of Physical Anthropology*.
- 2017 Fuchs AJ\*, Gilbert CC, **Kamilar JM**. Ecological niche modeling of the genus *Papio*. *American Journal of Physical Anthropology*.
- 2017 Jacobs RL, Macfie TS\*, **Kamilar JM**, Spriggs AN\*, Baden AL, Morelli TL, Irwin TL, Lawler RR, Pastorini J, Mayor M, Sauther ML, Lei R, Culligan R, Hawkins MTR, Kappeler P, Wright PC, Louis Jr EE, Mundy NI, Bradley BJ. Variation in lemur color vision across species, populations and habitats: Implications for signal evolution. *American Journal of Physical Anthropology*.
- 2017 McGrosky A\*, **Kamilar JM**, Tecot SR, Schwartz GT. A 'hypophysis' to test: the relationship between sella turcica morphology, pituitary gland size, and life history. *American Journal of Physical Anthropology*.
- 2017 Smith AJ\*, Crumpton N, **Kamilar JM**, Dumont ER. The role of phenotypic integration in the evolution of cranial morphological disparity in moles (Talpidae: Mammalia). *Integrative and Comparative Biology*.
- 2017 Spriggs AN\*, Bradley BJ, **Kamilar JM**, Gordon AD. Quantifying countershading in *Eulemur* using eigencoats. *American Journal of Physical Anthropology*.
- 2017 Van Horn A\*, Spriggs AN\*, Wilhelm B, **Kamilar JM**, Bradley BJ. Males in uniform: intra-individual pelage-color variation is associated with social style in male macaques. *American Journal of Physical Anthropology*.
- 2017 Vander Linden A\*, Hedrick BP, **Kamilar JM**, Dumont ER. Three-dimensional morphology of the atlas vertebra in relation to body size and posture in primates, rodents, and relatives. *Integrative and Comparative Biology*.
- 2016 Agostini G\*, **Kamilar JM**. Phylogenetic signal in primate morphology. Northeastern Evolutionary Primatology Conference.
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- 2015 Lazagabaster IA\*, **Kamilar JM**, Reed KE, Rowan J\*. Mode of evolution of craniodental traits in African artiodactyls. Society for Vertebrate Paleontology.
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- 2010 **Kamilar JM** and Bradley BJ. Factors influencing countershading diversity in primate coat coloration. *American Journal of Physical Anthropology* 141 (S50): 138-139.
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- 2009 Marshack J\* and **Kamilar JM**. Testing multiple hypotheses explaining primate species richness. *American Journal of Physical Anthropology* 138 (S48): 184.
- 2009 Orkin JD\* and **Kamilar JM**. Does sexual selection affect primate extinction risk? *American Journal of Physical Anthropology* 138 (S48): 203.
- 2009 Pontzer H and **Kamilar JM**. Greater ranging associated with great reproductive investment in mammals: A new perspective on foraging economics. *Integrative and Comparative Biology* 49 (Suppl.1): 137.
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- 2006 **Kamilar JM**. How do environmental and historical effects shape primate communities? *American Journal of Physical Anthropology* 129(S42): 111.
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- Asia. *American Journal of Primatology* 66(S1): 133-134.
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#### **MEDIA COVERAGE**

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- Oct 2016 “Past climate linked to mammal communities in Africa today” – Archaeology News Network  
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- Oct 2016 “Past climate, not current changes, key to some mammal communities” – ClimateWire  
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- Feb 2013 “The nocturnal mammalian eye” – Academic Minute on Northeast Public Radio  
<http://www.wamc.org/post/dr-chris-kirk-university-texas-austin-nocturnal-mammalian-eye>
- Dec 2012 “Did trichromatic color vision and red hair color co-evolve in primates?” – Featured article on the American Society of Primatologists website  
<http://www.asp.org/index.cfm>
- Oct 2012 “New study shows effects of prehistoric nocturnal life on mammalian vision” – Science Daily  
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<http://whyevolutionistrue.wordpress.com/2011/03/12/can-you-see-that-monkey-up-there/>
- Dec 2008 “More walking leads to more offspring” - United Press International  
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- “Increased daily travel in animals leads to more offspring” - Newswise  
<http://www.newswise.com/articles/view/547711/>

#### PROFESSIONAL SERVICE

- Fall 2016 Panelist, National Science Foundation
- Spring 2016 Panelist, National Science Foundation
- 2015 - 2017 Associate Editor, *Journal of Human Evolution*
- 2013 - Academic Editor, *PLoS ONE*
- 2013 - 2014 Guest Editor, *International Journal of Primatology*
- 2011 Panel Member, Employment Roundtable at the American Association of Physical Anthropologists Meeting
- 2009 Session Chair, “Primatology. Communities, growing up, reproduction, life history and ecology”, American Association of Physical Anthropologists Meeting
- 2007 - 2015 Student Affairs Committee, American Association of Physical Anthropologists
- 2005 - Manuscript reviewer for: *Acta Theriologica*, *Adaptive Behavior*, *African Primates*, *American Journal of Physical Anthropology*, *American Journal of Primatology*, *American Naturalist*, *Animal Behaviour*, *Animal Conservation*, *Behavioral Ecology*, *Behavioral Ecology and Sociobiology*, *Behaviour*, *Biological Conservation*, *Biological Journal of the Linnean Society*, *Biology Letters*, *Biotropica*, *Cambridge University Press*, *Ecography*, *Ecological Applications*, *Ecology and Evolution*, *Evolution and Human Behavior*, *Evolutionary Anthropology*, *Folia Primatologica*, *Global Change Biology*, *Global Ecology and Biogeography*, *International Journal of Primatology*, *Journal of Animal Ecology*, *Journal of Biogeography*, *Journal of Human Evolution*, *Journal of Thermal*

*Biology, Journal of Tropical Ecology, Journal of Zoology, Methods in Ecology and Evolution, Oecologia, Oikos, Oxford University Press, PLoS ONE, Primates, Proceedings of the Royal Society B, Springer's Developments in Primatology Series*

- 2001 - Grant reviewer for: American Society of Primatologists' Conservation Grant, Deutsche Forschungsgemeinschaft (German Research Foundation), Deutscher Akademischer Austauschdienst (German Academic Exchange Service), Leakey Foundation, Lincoln Park Zoo Africa/Asia Conservation Fund, National Environment Research Council (United Kingdom), National Geographic Society, National Research Foundation (South Africa), National Science Foundation (USA), Natural Sciences and Engineering Research Council of Canada
- 2002 - 2008 Conservation Committee, American Society of Primatologists

#### **UNIVERSITY SERVICE**

- Fall 2016 Search Committee Member for Program Coordinator II, Interdepartmental Graduate Programs in the Life Sciences, University of Massachusetts Amherst
- Summer 2016 Search Committee Member for Program Coordinator I, Interdepartmental Graduate Programs in the Life Sciences, University of Massachusetts Amherst
- 2013 - 2015 Institutional Review Board, Midwestern University

#### **DEPARTMENT SERVICE**

- 2016 - 2017 Curriculum Committee, Department of Anthropology, University of Massachusetts Amherst
- 2015 - 2016 Annual Faculty Review Subcommittee, Department of Anthropology, University of Massachusetts Amherst

#### **PROFESSIONAL MEMBERSHIPS**

- American Association for the Advancement of Science  
 American Association of Physical Anthropologists  
 International Biogeography Society  
 Sigma Xi  
 Society for the Study of Evolution