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Research Statement

Integrative Evolutionary Genetics in the Service of Conserving Biodiversity

Education

Ph.D. 1992 Biology, Duke University
B.A. 1981 Zoology, University of North Carolina - Chapel Hill

Professional Experience

Braxton Craven Professor of Evolutionary Biology , Duke University	2017-present
Professor (Primary Appointment) – Department of Biology, Duke University	2005-present
Adjunct Professor , Centre for Computational and Evolutionary Biology, Institute of Zoology, Chinese Academy of Sciences, Beijing	2007-present
Director - Duke Lemur Center	2006 - 2018
Associate Professor - Department of Ecology and Evolutionary Biology, Yale University (awarded tenure, December 2004)	2001 - 2005
Associate Curator of Mammals , Yale Peabody Museum	2001 - 2005
Assistant Professor - Department of Cell and Molecular Biology, Northwestern University Medical School	1996 - 2001
Research Associate - Department of Zoology, Field Museum of Natural History	1996 - 2001
Postdoctoral Fellow - National Science Foundation, Environmental Biology Program Harvard University	1992 - 1995
Curatorial Research Intern - Department of Mammalogy, American Museum of Natural History	1986
Museum Technician - Department of Vertebrate Zoology, Smithsonian Museum of Natural History	1983 - 1985

Publications (*graduate student or postdoctoral trainee; **undergraduate trainee)

2018 Blanco, M.B., Dausmann, K.H., Faherty, S.L. and **A.D. Yoder**. Tropical heterothermy is "cool": the expression of daily torpor and hibernation in primates. *Evolutionary Anthropology* (in press)

2018 Campbell, R.C., Poelstra, J.W. and **A.D. Yoder**. What is speciation genomics? The roles of ecology, gene flow, and genomic architecture in the formation of species. *Biological Journal of the Linnean Society* <https://doi.org/10.1093/biolinnean/bly063>.

2018 **Yoder, A.D.**, *Poelstra, J.W., *Tiley, G.P., and *R.C. Williams. Neutral theory is the foundation of conservation genetics. *Molecular Biology and Evolution*, doi:10.1093/molbev/msy076

2018 *McKenney, E.A., Koelle, K., Dunn, R.R., **A.D. Yoder**. The ecosystem services of animal microbiomes. *Molecular Ecology* DOI: 10.1111/mec.14532

2018 *Larsen, P.A., **Hunnicut, K.E., Larsen, R.J., **Yoder, A.D.**, A.M. Saunders. Warning SINEs: *Alu* elements, evolution of the human brain, and the spectrum of neurological disease. *Chromosome Research*, 1-19

2018 dos Reis, M., Gunnell, G., Barba-Montoya, J., **Wilkins, A., Yang, Z., **A.D. Yoder**. Using Phylogenomic Data to Explore the Effects of Relaxed Clocks and Calibration Strategies on Divergence Time Estimates: Primates as a Test Case. *Systematic Biology*

- <https://doi.org/10.1093/sysbio/syy001>
- 2018 *Faherty, S.L., Villanueva-Cañas, J.L., *Blanco, M.B., Alba, M.M., **A.D. Yoder**. Transcriptomics in the wild: hibernation physiology in free-ranging dwarf lemurs. *Molecular Ecology* DOI: 10.1111/mec.14483
- 2017 *McKenney, E.A., Maslanka, M., Rodrigo, A., **A.D. Yoder**. Bamboo specialists from two mammalian orders (Primates, Carnivora) share a high number of low-abundance gut microbes. *Microbial Ecology* <https://doi.org/10.1007/s00248-017-1114-8>
- 2017 *McKenney, E.A., O'Connell, T.M., Rodrigo, A., **A.D. Yoder**. Feeding strategy shapes gut metagenomic enrichment and functional specialization in captive lemurs. *Gut Microbes* DOI: 10.1080/19490976.2017.1408762
- 2017 *Larsen, P.A., Harris, R.A., Liu, Y., Murali, S.C., *Campbell, C.R., Brown, A.D., Sullivan, B.A., Shelton, J., Brown, S. J., Raveendran, M., Dudchenko, O., Machol, I., Durand, N.C., Shamim, M.S., Aiden, E.L., Muzny, D.M., Gibbs, R.A., **Yoder, A.D.**, Rogers, J., and K.C. Worley. Hybrid de novo genome assembly and centromere characterization of the gray mouse lemur (*Microcebus murinus*). *BMC Biology* doi: 10.1186/s12915-017-0439-6
- 2017 *McKenney, E.A., *Greene, L.K., Drea, C.M., **A.D. Yoder**. Down for the count: *Cryptosporidium* infection depletes the gut microbiome in Coquerel's sifakas. *Microbial Ecology in Health & Disease* DOI: 10.1080/16512235.2017.1335165
- 2017 McCluskey, K., Boundy-Mills, K., Dye, G., Ehmke, E., Gunnell, G., Kiaris, H., Richmond, M.P., **Yoder, A.D.**, Zeigler, D.R., Zehr, S. and E. Grotewold. The challenges faced by living stock collections in the USA. *eLife* 6:e24611. DOI: 10.7554/eLife.24611.
- 2017 *Larsen, P.A., Lutz, M.W., **Hunnicut, K.E., Mihovilovic, M., Saunders, A.M., **Yoder, A.D.**, A.D. Roses. The *Alu* neurodegeneration hypothesis: a primate-specific mechanism for neuronal transcription noise, mitochondrial dysfunction, and manifestation of neurodegenerative disease. *Alzheimer's and Dementia* 13 (7): 828 – 838. DOI: 10.1016/j.jalz.2017.01.017
- 2016 *Faherty, S.L., Hilbig, S.A., **A.D. Yoder**. The effect of body mass and diet composition on torpor patterns in a Malagasy primate (*Microcebus murinus*). *Journal of Comparative Physiology B* 2016/11/9: 1 - 12.
- 2016 Nunziata, S.O., Wallenhorst, P., *Barrett, M.A., Junge, R.E., **Yoder, A.D.**, *Weisrock, D.W. Population and conservation genetics in an endangered lemur, Indri indri, across three forest reserves in Madagascar. *International Journal of Primatology* 2016: 1-15.
- 2016 *Faherty, S.L., Villanueva-Cañas, J.L., Klopfer, P.H., Alba, M.M., **A.D. Yoder**. Gene expression profiling in the hibernating primate, *Cheirogaleus medius*. *Genome Biology and Evolution* July 12, 2016 doi:10.1093/gbe/evw163.
- 2016 *Blanco, M.B., Dausmann, K.H., *Faherty, S.L., Klopfer, P., Krystal, A.D., Schopler, R., **A.D. Yoder**. Hibernation in a Primate: Does sleep occur? *Royal Society Open Science* 3 (8): 160282.
- 2016 **Yoder, A.D.**, *Campbell, C.R., dos Reis, M., *Blanco, M., Ganzhorn, J.U., Goodman, S.M., **Hunnicut, K.E., *Larsen, P.A., Kappeler, P.M., Rasoloarison, R.M., Ralison, J.M., Swofford, D., D.W. *Weisrock. Geogenetic patterns in mouse lemurs (genus *Microcebus*) reveal the ghosts of Madagascar's forests past. *Proceedings of the National Academy of Sciences* (www.pnas.org/cgi/doi/10.1073/pnas.1601081113)
- 2016 Federman, S., Dornburg, A., Daly, D.C., Downie, A., Perry, G.H., **Yoder, A.D.**, Sargis, E.J., Richard, A.F., Donoghue, M.J., A.L. Baden. Implications of lemuriform extinctions for the Malagasy flora. *Proceedings of the National Academy of Sciences*, published ahead of print (April 11, 2016, doi:10.1073/pnas.1523825113)
- 2016 Hotaling, S., Foley, M.E., Lawrence, N.M., Bocanegra, J., *Blanco, M.B., Rasoloarison, R., Kappeler, P.M., *Barrett, M.A., **Yoder, A.D.** and D. W. *Weisrock. Species discovery and validation in a cryptic radiation of endangered primates: coalescent-based species delimitation in Madagascar's mouse lemurs. *Molecular Ecology*, DOI: 10.1111/mec.13604
- 2016 *Larsen, P.A., **Hayes, C.E., Williams, C.V., Junge, R.E., Razafindramana, J., Mass, V., Rakotondrainibe, H., **A.D. Yoder**. Blood transcriptomes reveal novel parasitic zoonoses

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- 2016 **Yoder, A.D.**, *Weisrock, D.W., Rasoloarison, R.M. and P.M. Kappeler. Cheirogaleid diversity and evolution: big questions about small primates. *Evolutionary Biology and Ecology of the Cheirogaleidae*. S. L. Lehman, L. Radespiel and E. Zimmermann (eds). Cambridge, Cambridge University Press.
- 2015 **Yoder, A.D.**, *PLOS Genetics*, October 5, 2015 (Invited comment for 10th Anniversary Collection)
- 2015 *Faherty, S.L., *Campbell, C.R., *Larsen, P.L., and **A.D. Yoder**. Evaluating whole transcriptome amplification for gene profiling experiments using RNA-Seq. *BMC Biotechnology* 15:65.
- 2015 Pabijan, M., *Brown, J.L., *Chan, L.M., *Rakotondravony, H., *Raselimanana, A.P., **Yoder, A.D.**, Glaw, F., and M. Vences. Phylogeography of the arid-adapted Malagasy bullfrog, *Laliostoma labrosum*, influenced by past connectivity and habitat stability. *Molecular Phylogenetics and Evolution* 92:11-24
- 2015 *McKenney, E.A., Williamson, L., **Yoder, A.D.**, Rawls, J.F., Bilbo, S.D., W. Parker. Alteration of the rat cecal microbiota during colonization with the helminth *Hymenolepis dimunita*. *Gut Microbes* 6(3):182-93.
- 2015 *McKenney, E.A., Rodrigo, A. and **A.D. Yoder**. Patterns of gut bacterial colonization in three primate species. *PLoS One*, DOI:10.1371
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- 2014 *Larsen, P.A., **Hayes, C.E., **Wilkins, M.A., Gomard, Y., Sookhareea, R., **Yoder, A.D.**, and S.M. Goodman. Population genetics of the Mauritian flying fox, *Pteropus niger*. *Acta Chiropterologica* 16(2): xxx - xxx.
- 2014 **Yoder, A.D.** and *P.A. Larsen. The molecular evolutionary dynamics of the vomeronasal receptor genes (Class 1) in primates: a gene family on the verge of a functional breakdown. *Frontiers in Neuroanatomy* 8:153.
- 2014 **Shi, J.J., *Chan, L.M., Peel, A.J., Lai, R., **Yoder, A.D.**, S.M. Goodman. A deep divergence time between sister species of *Eidolon* (Pteropodidae) with evidence for widespread panmixia. *Acta Chiropterologica* 16(2): 279-292.
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- 2014 *Brown, J.L., Cameron, A., **Yoder, A.D.** and M. Vences. A necessarily complex model to explain the biogeography of the amphibians and reptiles of Madagascar. *Nature Communications* 5: 5046.
- 2014 *Larsen, P.A., *Heilman, A.M., and **A.D. Yoder**. The Utility of PacBio Circular Consensus Sequencing for Characterizing Complex Gene Families in Non-model Organisms: insights from vomeronasal 1 receptor diversity in the gray mouse lemur. *BMC Genomics*, 15:720.
- 2014 *Nowak, M. D., Haller, B.C. and **A.D. Yoder**. The founding of Mauritian endemic coffee trees by a synchronous long-distance dispersal event. *Journal of Evolutionary Biology*, 27(6): 1229-39
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- 2014 Katzourakis, A., Aiewsakun, P., Jia, H., Wolfe, N.D., LeBtreton, M., **Yoder, A.D.** and W.M. Switzer. Discovery of prosimian and afrotherian foamy viruses and potential cross species transmissions amid stable and ancient mammalian co-evolution. *Retrovirology*, 11:61.
- 2014 Zehr, S.M., Roach, R.G., Haring, D., Taylor, J., Cameron, F.H. and **A.D. Yoder**. Life history profiles for 27 prosimian primate taxa generated using captive data from the Duke Lemur Center. *Scientific Data*, 1:140019
- 2014 Martin, S.L and **A.D. Yoder**. Theme and Variations: Heterothermy in Mammals. *Integrative and Comparative Biology*, 54 (3): 439-442.
- 2014 Villanueva-Cañas, J.L., *Faherty, S.L., **Yoder, A.D.**, and M.M. Albà. Comparative genomics of mammalian hibernators using gene networks. *Integrative and Comparative Biology*, 54 (3): 452-462
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- 2014 **Yoder, A.D.** Gene flow happens. *Evolutionary Anthropology*, 23:15-17 (invited essay)
- 2013 **Shi, J.J., *Chan, L.M., Rakotomalala, Z., *Heilman, A.M., Goodman, S.M. and **A.D. Yoder**. Latitude drives diversification in Madagascar's endemic dry forest rodent, *Eliurus myoxinus* (sub-family Nesomyinae). *Biological Journal of the Linnean Society*, 110(3):500-517
- 2013 Krystal, A.D., Schopler, B., Kobbe, S., Williams, C., Rakatondrainibe, H., **Yoder, A.D.**, P. Klopfer. Discovery of a novel REM Sleep-like state in a hibernating primate – *Cheirogaleus medius*. *PLoS ONE*, 8 (9): e69914.
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- 2013 Rasoloarison, R.M., *Weisrock, D.W., **Yoder, A.D.**, Rakotondravony, D. and P.M. Kappeler. A new species of mouse lemur (Cheirogaleidae: *Microcebus*) from the central eastern rainforests of Madagascar. *International Journal of Primatology*, 34:455-469.
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- 2013 Klopfer, P., Krystal, A., Williams, C. and **A.D. Yoder**. Neuroethology: do hibernating primates sleep? *Nova Acta Leopoldina N. F.* 111(380): 15-27
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- 2011 *Chan, L., *Brown, J. and A.D. Yoder. Merging population genetics and geospatial analysis brings new power to phylogeography. *Molecular Phylogenetics and Evolution*, 59(2): 523 – 537
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- 2003 **Yoder, A.D.** and J.J. Flynn. Origin of Malagasy Carnivora. In: The Natural History of Madagascar (S. M. Goodman and J. Benstead, eds.) University of Chicago Press, pp. 1253-1256.
- 2003 **Yoder, A.D.** Phylogeny of the lemurs. In: The Natural History of Madagascar (S. M.

- Goodman and J. Benstead, eds.) University of Chicago Press, pp. 1242-1247.
- 2003 Yang, Z. and **A.D. Yoder**. Comparison of likelihood and Bayesian methods for estimating divergence times using multiple gene loci and calibration points, with application to a radiation of cute-looking mouse lemur species. *Systematic Biology*, 52(5):705-716.
- 2003 **Yoder, A.D.** The phylogenetic position of genus Tarsius: whose side are you on? In: Tarsiers: Past, Present, and Future (P.C. Wright, E.L. Simons and S. Gursky, eds.) Rutgers University Press, pp. 161-175.
- 2003 Eriksson, T., Hibbs, M.S., **Yoder, A.D.**, Delwiche, C.F., and M.J. Donoghue. The phylogeny of Rosoideae (Rosaceae) based on sequences of the internal transcribed spacers (ITS) of nuclear ribosomal DNA and the trnL/F region of chloroplast DNA. *International Journal of Plant Sciences*, 164(2):197-211.
- 2003 **Yoder, A.D.**, #Burns, M.M., Zehr, S., *Delefosse, T., Veron, G., Goodman, S.M., and J.J. Flynn. Single origin of Malagasy Carnivora from an African ancestor. *Nature*, 421: 734-737.
- 2002 **Yoder, A.D.**, #Burns, M.M., and F. Genin. Molecular evidence of reproductive isolation in sympatric sibling species of mouse lemurs. *International Journal of Primatology*, 23: 1335-1343.
- 2002 *Olson, L.E. and **A.D. Yoder**. Using secondary structure to identify ribosomal numts: cautionary examples from the human genome. *Molecular Biology and Evolution*, 19(1): 93-100
- 2002 **Yoder, A.D.** and T. *Delefosse. Ancient DNA. McGraw-Hill, Yearbook of Science and Technology, pp. 9-14.
- 2001 **Yoder, A.D.**, #Irwin, J.A., and B. *Payseur. Failure of the ILD to determine data combinability for slow loris phylogeny. *Systematic Biology*, 50: 408-424.
- 2001 **Yoder, A.D.** Ancient DNA from Megaladapis edwardsi. *Folia Primatol (Basel)*, 72(6):342-344
- 2000 **Yoder, A.D.**, *Rasoloarison, R., Goodman, S., #Irwin, J.A., Atsalis, S. Ravosa, M.J., and J.U. Ganzhorn. Remarkable species diversity in Malagasy mouse lemurs (Primates, Microcebus) *Proceedings of the National Academy of Sciences*, 97: 11325-11330.
- 2000 **Yoder, A.D.**, #Irwin, J.A., Rakotoarisoa, S.V., and S. Goodman. Genetic tests of the Of the taxonomic status of Lemur catta from the high mountain zone of the Andringtra Massif, Madagascar. *Journal of Zoology*, 252:1-9.
- 2000 **Yoder, A.D.** and Z. Yang. Estimation of primate speciation dates using local molecular clocks. *Molecular Biology and Evolution*, 17(7):1081-1090.
- 1999 **Yoder, A.D.** and J.A. Irwin. Phylogeny of the Lemuridae: effects of taxon and character sampling on resolution of species relationships within Eulemur. *Cladistics*, 15:351-361.
- 1999 **Yoder, A.D.**, Rakotosamimanana, B. and T.J. Parsons. Ancient DNA in subfossil lemurs: methodological challenges and their solutions. In: Rasaminanana, H., B. Rakotosamimanana, S. Goodman and J. Ganzhorn (eds.), *New Directions in Lemur Studies*. Plenum Press, pp. 1-17.
- 1999 Yang, Z. and **A.D. Yoder**. Estimation of the transition/transversion rate bias and species sampling. *Journal of Molecular Evolution*, 48(3): 274-283
- 1997 **Yoder, A.D.** Back to the future: a synthesis of strepsirrhine systematics. *Evolutionary Anthropology*, 6(1):11-22.
- 1997 **Yoder, A.D.** An infinitude of connecting links. *Trends in Ecology and Evolution*, 12(3):86-88.
- 1996 **Yoder, A.D.**, Vilgalys, R., and M. Ruvolo. Molecular evolutionary dynamics of cytochrome *b* in strepsirrhine primates: the phylogenetic significance of third position transversions. *Molecular Biology and Evolution*, 13(10):1339-1350.
- 1996 **Yoder, A.D.**, Cartmill, M., Ruvolo, M., Smith, K., and R. Vilgalys. Ancient single origin for Malagasy primates. *Proceedings of the National Academy of Sciences*, 93:5122-5126.
- 1996 **Yoder, A.D.** The use of phylogeny for reconstructing lemuriform biogeography. In: *Biogeographie de Madagascar*. (W.R. Lourenco, ed.) Editions de l'ORSTROM, Paris, pp. 245-258.
- 1994 **Yoder, A.D.** The relative position of the Cheirogaleidae in strepsirrhine phylogeny: a comparison of morphological and molecular methods and results. *American Journal of Physical Anthropology*, 94(1):25-46.

- 1994 Cartmill, M. and **A.D. Yoder**. Molecules and Morphology in Primate Systematics: An Introduction. *American Journal of Physical Anthropology*, 94(1):1.
- 1992 **Yoder, A.D.** Applications and limitations of ontogenetic comparisons for phylogeny reconstruction: the case of the strepsirhine internal carotid artery. *Journal of Human Evolution*, 23:183-195.
- 1992 Kay, R.F., Thewissen, J.G.M. and **A.D. Yoder**. Cranial anatomy of *Ignacius graybullianus* and the affinities of the Plesiadapiformes. *American Journal of Physical Anthropology*, 89:477-498.

Awards and Honors

John Simon Guggenheim Memorial Foundation Fellowship	2018
Alexander von Humboldt Foundation Fellowship	2018
Duke Graduate School Few-Glasson Alumni Society Inductee	2018
Museum of Vertebrate Zoology, UC - Berkeley, <i>Graduate Student Invited Speaker</i>	2018
Braxton Craven Distinguished Professor of Evolutionary Biology	2017
SOKENDAI, Japan; International Symposium on Biodiversity in Madagascar, <i>Keynote Speaker</i>	2017
Society for Systematic Biology, Past-President Plenary Address	2017
Society for Systematic Biology, President Elect, President, Past President	2015 - 2017
Elected member, Executive Committee for the Academic Council, Duke University	2014 - 2016
North Carolina State University, Department of Genetics, <i>Graduate Student Invited Speaker</i>	2012
American Society of Mammalogists, <i>Capstone Speaker</i>	2012
Wageningen University, Evolution and Ecology Series, <i>Graduate Student Invited Speaker</i>	2011
University of Miami, Department of Biology, <i>ADVANCE, Distinguished Women in Science</i>	2011
Brigham Young University, M.L. Bean Life Science Museum, <i>Tanner Distinguished Lecturer</i>	2010
Invited Member IUCN/SSC Primate Specialist Group	2009-present
South Eastern Louisiana University, <i>Graduate Student Invited Speaker</i>	2007
University of California, Berkeley, Department of Integrative Biology, <i>Graduate Student Super Speaker</i>	2006
University of Idaho, <i>Randall Seminars: Distinguished Women in Science</i>	2006
Southeastern Ecology and Evolution Conference, University of Alabama, <i>Keynote Speaker</i>	2006
National Science Foundation Career Development Award	2000-2004
Society for Systematic Biology, Council Member	2001-2004
John H. Ostrom Lecture Series, Yale Peabody Museum	2004
Josephine Bay Paul and C. Michael Paul Foundation Biodiversity Leadership Award	2002
George Joost Award for Outstanding Teaching, Northwestern University Medical School	2000
Duke University, <i>Systematics Super Speaker</i>	2001
Katherine Stern Dissertation Fellowship	1991
Best Student Paper in Systematic Zoology, American Society of Zoologists	1991
The Sherwood Washburn Student Paper Prize, American Association of Physical Anthropologists	1991

Extramural Grant Support

- National Science Foundation – CSBR Living Stocks: Continued Support for the Duke Lemur Center for the Study of Primate Biology and History. (July 2018 – June 2020) \$499,988
- National Science Foundation – CSBR Living Stocks: Continued Support for the Duke Lemur Center for

the Study of Primate Biology and History. (July 2016 – June 2018) \$499,997

National Science Foundation – Division of Biological Infrastructure: Conference: 50 years of interdisciplinary research at the Duke Lemur Center - the power of biological infrastructure to advance knowledge. (September 2016 – August 2017) \$64,605

National Science Foundation – Division of Environmental Biology (DEB): Collaborative Research: Species tree reconstruction using neutral and non-neutral phylogenomic data. (October 2014 – September 2017) total award \$987,750 (\$390,526 Duke budget)

National Center for Advancing Translational Sciences of the National Institutes of Health: Whole transcriptome analysis following hypoxia, a comparative study between lemur and human (January 2016 - December 2016) total award \$10,000

National Institutes of Health – Animal and Biological Material Resource Centers (P40): Support of a Mouse and Dwarf Lemur Colony at the Duke Lemur Center. (July 2015 – June 2020) total award \$2,238,338 (Impact Score 20; recommended for funding by Division of Comparative Medicine but declined by Director of NIH ORIP due to DLC non-invasive research policies)

National Science Foundation – Social, Behavioral, and Economic Research: Doctoral Dissertation Research: Gene Expression and Physiologic Extremes in Primate Hibernation. (January 2015 – December 2017) total award \$23,034 (with Sheena Faherty)

National Science Foundation – Social, Behavioral, and Economic Research: Doctoral Dissertation Research: Gut Instincts: Microbial Community Assembly After Birth and Disease in Captive Lemur Species. (January 2015 – December 2017) total award \$31,640 (with Erin McKenney)

National Science Foundation – Division of Biological Infrastructure: Continued Support of the Duke University Primate Center for the Study of Primate Biology and History. Supplemental award (December 2014 – March 2016) \$114,191

National Science Foundation – Division of Biological Infrastructure: Continued Support of the Duke University Primate Center for the Study of Primate Biology and History. Supplemental award (December 2012 – March 2014) \$201,193

National Science Foundation – Division of Biological Infrastructure: Continued Support of the Duke University Primate Center for the Study of Primate Biology and History. (March 2011 – February 2016) \$1,716,080

National Institutes of Health – Expanding Research Facilities at the Duke Lemur Center - RFA-RR-09-008 Recovery Act Limited Competition: Extramural Facilities Improvement Program. (co- PI with Peter Lange) \$8,991,657 (*recommended for funding with Priority Score of 20, though not funded due to geographic considerations of the ARRA initiative*)

National Science Foundation – Division of Biological Infrastructure – Bioinformatics Postdoctoral Research Fellowship: Integrating species distribution models, Geographic Information Systems and coalescent phylogenetic methods into phylogeography studies. (January 2010 – December 2012) \$189,000 (with Jason Brown)

National Science Foundation – International Programs: U.S.-Mauritius Doctoral Dissertation Enhancement Project: Baker's Rule and Mating System Evolution in Madagascan Coffea (Rubiaceae). (January 2009 – December 2010) \$15,000 (with Mike Nowak)

National Science Foundation – Graduate Research Fellowship: Lemur disease ecology: Linking health, ecosystem viability and conservation in Madagascar (September 2007 – August 2010) \$91,000 (with Meredith Barrett)

National Science Foundation – Environmental Biology: REU Supplement for Collaborative Research: Testing the Role of Historical Geology and Rivers for Shaping the Distribution of Land Vertebrate Biodiversity in Western Madagascar. (June 2007 – May 2008) \$6000

National Science Foundation – Division of Biological Infrastructure: Continued Support of the Duke University Primate Center for the Study of Primate Biology and History. (March 2006 – February 2011) \$ 1,921,809

National Science Foundation - Environmental Biology: Collaborative Research: Testing the role of historical geology and rivers for shaping the distribution of land vertebrate biodiversity in western Madagascar. (October 2005 – August 2010) \$219,981 (Duke budget)

National Science Foundation – Division of Biological Infrastructure: A high-throughput DNA analyzer for comparative population genomics. (June 2005) \$ 264,529

National Science Foundation - Environmental Biology: CAREER: Comparative vertebrate phylogeography as a tool for reconstructing environmental change and effect in Madagascar. (June 2000 - May 2004) - \$408,133

National Science Foundation - Social, Behavioral, and Economic Research: Evolutionary history of subfossil lemurs as determined by ancient DNA analysis. (July 1999 - May 2001) - \$210,361

National Science Foundation - Environmental Biology: Biogeography of Malagasy carnivores. (July 1998 - August 2000) - \$76,000

National Institutes of Health - NCRR Shared Instrumentation Grant: An automated DNA sequencing facility (March 1998) - \$128,500

National Science Foundation - Social, Behavioral, and Economic Research: Analysis of mitochondrial DNA in subfossil lemurs. (January 1998 - June 1999) - \$78,363

National Science Foundation - Environmental Biology - Research Planning Grant: Phylogeny and evolution of mitochondrial DNA in extinct Malagasy primates. (September 1997 - January 1999) - \$18,000

National Science Foundation - Environmental Biology - Postdoctoral Fellowship: Molecular evolution in strepsirrhine primates. (August 1993 - August 1995) - \$64,800

National Science Foundation - Social, Behavioral, and Economic Research: Dissertation Research: The phylogenetic affinities of the Cheirogaleidae (May 1990 - September 1992) - \$8490

Foundation Support

Conservation, Food and Health Foundation: A biodiversity inventory of the COMATSA forest corridor. (\$17,500)

Trent Foundation: "Duke Lemur Center 50th Anniversary Scientific Symposium September 21-23, 2016."

Burroughs Wellcome Fund 2014 Collaborative Research Travel Grant: "Developing statistical expertise for estimating the temporal origins of Primates"

Helmsley Charitable Trust: Support for the Duke Lemur Center SAVA Conservation Initiative, 2014 - 2017 (with Charlie Welch)

Josiah Charles Trent Memorial Foundation Endowment Fund in the area of International Studies, 2014 - 2015

Mary Duke Biddle Foundation: The Organic Garden Project, 2012 (with Charlie Welch)

Conservation International Foundation: Phylogeographic approach to conservation in three mouse lemurs, 2012 (with Amy Heilman)

Margot Marsh Foundation: Effects of forest fragmentation on the ecology of hibernation in dwarf lemurs, 2012 (with Marina Blanco)

Ambatovy Minerals SA: Efforts To Ensure The Healthy Functioning Of Ecosystems In Northern Madagascar, 2011 - present (with Cathy Williams)

Saint Louis Zoo Field Research for Conservation Program, 2008 - 2010 (with Meredith Barrett)

Margot Marsh Biodiversity Fund: Ancient DNA analysis of extinct lemurs, 1998 - 1999

L.S.B. Leakey Foundation: Ancient DNA analysis of extinct lemurs, 1994; 1995; 1998

Sigma Xi - Grant-in-Aid-of-Research: Origins of Malagasy Primates, 1991

American Museum of Natural History: Collection Study Grant, 1991

Douracouli Foundation: Rediscovering the hairy-eared dwarf lemur, 1989

World Wildlife Fund: Rediscovering the hairy-eared dwarf lemur, 1989

Invited seminars

2018	Museum of Vertebrate Zoology, University of California - Berkeley; <i>Graduate Student Invited Speaker</i>
2018	University of Mississippi, Department of Biology
2017	Queen Mary College, London; Bevan Lecturer
2017	Department of Psychology & Neuroscience, Duke University; GradX Invited Speaker
2016	Yale University, Department of Ecology and Evolutionary Biology

2016 Google, San Francisco Campus

2016 National Academy of Sciences, Arthur M. Sackler Colloquia, University of California-Irvine: *"In the Light of Evolution X. Comparative Phylogeography"*

2015 NC State University, Biotechnology Symposium, *Plenary Speaker*

2015 University of Pennsylvania, Department of Anthropology, *Colloquium on Extinction*

2015 American Genetics Association, President's Symposium, Bainbridge Island

2015 British Museum of Natural History, SciFri Seminar Series

2015 University of Buffalo, Department of Biology

2015 University of Wisconsin, Biology Colloquium, *Darwin Day Speaker*

2014 European Molecular Biology Laboratory - European Bioinformatics Institute (Goldman Lab)

2014 University College London, Department of Genetics, Evolution and Environment (Yang Lab)

2014 Imperial College London, Silwood Park Campus

2014 University of North Carolina - Wilmington, Department of Biology

2014 Committee on Evolutionary Biology (CEB) at the University of Chicago

2014 University of Cambridge, Department of Zoology

2013 University of Virginia, Department of Biology

2012 North Carolina State University, Department of Genetics, *Graduate Student Invited Speaker*

2012 American Society of Mammalogists, *Capstone Speaker*

2012 European Molecular Biology Laboratory - European Bioinformatics Institute

2012 German Primate Center (DPZ), Goettingen, Germany

2012 University College London, Department of Genetics, Evolution and Environment

2012 Barcelona Biomedical Research Park (PRBB) and the Institute of Evolutionary Biology (IBE), Barcelona (declined)

2012 Sussex University, "Evolution, Ecology, Environment and Behaviour" Series (declined)

2011 Wageningen University, The Netherlands, Evolution and Ecology series, *Graduate Student Invited Speaker*

2011 Wayne State University, Center for Molecular Medicine and Genetics

2011 National Museum of Natural Sciences, Madrid, Spain

2011 University of Miami, Department of Biology, *ADVANCE, Distinguished Women in Science*

2010 University of Pennsylvania, Department of Biology

2010 Brigham Young University, M.L. Bean Life Science Museum, *Tanner Distinguished Lecturer*

2010 East Carolina University, Department of Biology, (declined)

2010 North Carolina State University, Department of Biology

2009 Duke University, Environmental Alliance Lecture Series

2009 Duke University, University Program in Ecology

2009 Duke University, Chautauqua Lecture Series

2009 North Carolina Museum of Natural Sciences, *Evolution in the Triangle*

2009 University of Iowa, Departments of Biology and Geoscience

2009 University of Iowa, *Darwin Day Speaker*

2009 University of Alaska – Fairbanks, Experimental Program to Stimulate Research

2008 Sigma Xi, The Scientific Research Society

2008 University of Washington, Department of Genome Sciences

2007 South Eastern Louisiana University, Department of Biology, Graduate Student Invited Speaker

2007 Duke University, Department of Pediatrics Research Retreat, *Keynote Speaker*

2007 Osher Lifelong Learning Institute (Duke Chapter)

2007 University of North Carolina – Chapel Hill, Ecology Group

2007 Rutgers University, Department of Ecology, Evolution, & Natural Resources

2006 Duke University Continuing Studies Program, Parents' Weekend "Student for a Day"

2006 University of California, Berkeley, Department of Integrative Biology, *Graduate Student Invited Speaker*

2006 L.S.B. Leakey Foundation, Board of Trustees

2006 University of Idaho, *Randall Seminars: Distinguished Women in Science*

2006 George Washington University, Department of Biology

2006 Southeastern Ecology and Evolution Conference, University of Alabama, *Keynote Speaker*

2005 The Forest at Duke, Retirement Community

2005 Stanford University, Department of Biological Sciences (declined)

2005 University of Missouri-St. Louis, Department of Biology, *Graduate Student Super Speaker* (declined)

2004 Fellows of Calhoun College, Yale University

2004 SUNY - Stony Brook, Department of Anatomy

2004 John H. Ostrom Lecture Series, Yale Peabody Museum

2003 NYCEP (New York Consortium in Evolutionary Primatology)

2003 Peabody Museum, Yale University, O.C. Marsh Program

2003 Wesleyan University, Hughes Program in the Life Sciences

2003 Boston University, Department of Biology (Ecology, Behavior, and Evolution group)

2003 Duke University, Department of Biological Anthropology & Anatomy and Department of Biology

2003 Yale University, Yale Institute for Biospheric Studies

2002 Yale University, Department of Anthropology,

2002 University College London, Department of Biology (Yang Lab)

2002 University of Connecticut, Department of Ecology and Evolutionary Biology

2002 Fordham University, Department of Biology

2002 American Museum of Natural History

2001 Duke University, EEOB Seminar Series, *Systematics Super Speaker*

2001 Royal Botanic Gardens, Kew Science Innovation Lecture Series (declined)

2000 Yale University, Department of Ecology and Evolutionary Biology

2000 University of Tennessee - Knoxville, Department of Ecology and Evolutionary Biology

2000 DePaul University, Department of Biology (declined)

1999 Northeastern Ohio Universities College of Medicine, Department of Anatomy (Evolutionary Morphology Seminar Series)

1999 Harvard University, Department of Anthropology

1999 Vanderbilt University, Department of Biology

1998 NYCEP (New York Consortium in Evolutionary Primatology)

1998 University of Virginia, Department of Biology

1998 Georgetown University, Department of Biology

1997 Armed Forces DNA Identification Laboratory

1997 Wayne State University, Department of Anatomy and Cell Biology (declined)

1996 Smithsonian Institution, Museum of Natural History, Department of Vertebrate Zoology

1995 Southeastern Louisiana University, Department of Biology

1994 Northwestern University, CMS Biology

1994 University of Texas - Austin, Department of Anthropology and The Institute for Cellular and Molecular Biology

1993 Harvard University, Department of Organismal and Evolutionary Biology (Lewontin Lab Seminar Series)

1993 SUNY - Stony Brook, Department of Anatomy

1993 Northwestern University, CMS Biology

1993 Chicago Field Museum of Natural History, Department of Zoology

1993 Harvard University, Department of Anthropology

1993 Yale University, Department of Anthropology

1991-2016 (*More than 80 contributed papers at professional society meetings*)

Workshops & Symposia Organized

- 2014 Heterothermy in mammals: Themes and variations. Published in the Journal of Integrative and Comparative Biology (Organized with Sandy Martin)
- 2007 Really big biogeographically-based integrative historical and ecological science: grand collaborative studies of whole biotas. (Organized with Cliff Cunningham, Michael Donoghue, and Brett Riddle; funded by NSF-DEB)
- 2006 Historical Perspectives on the Distribution of Biodiversity in Madagascar. (Organized with Claire Kremen; funded by NESCent)
- 2004 Theoretical and Empirical Concerns in Estimating Clade Ages: the Placental Mammals as a Test Case. Held at annual meetings of the Society for Systematic Biologists, 2004. (Organized with Ziheng Yang)
- 1992 Molecules versus Morphology in Primate Systematics. Held at annual meetings of American Association of Physical Anthropologists. (Organized with Matt Cartmill)

Invited Workshop & Symposium Participation

- 2018 NASA, Ames Research Campus - SpaceTorpor Workshop
- 2017 Workshop on Molecular Evolution - Marine Biological Laboratory (Course Co-Director)
- 2017 Gordon Conference on Speciation, Tuscany, Italy (Capstone Speaker) - declined
- 2017 SOKENDAI, Japan; International Symposium on Biodiversity in Madagascar (Organized by Masami Hasegawa)
- 2016 National Academy of Sciences Colloquium - *In the Light of Evolution X: Comparative Phylogeography* (Organized by Francisco Ayala and John Avise)
- 2015 The mouse lemur: a new model organism for physiology, behavior, and conservation biology (Organized by Fabienne Aujard and Mark Krasnow)
- 2014-2016 Workshop on Molecular Evolution - Marine Biological Laboratory (Organized by David Hillis)
- 2014 Workshop on Molecular Evolution - Center for Computational and Evolutionary Biology, Institute of Zoology, CAS, Beijing (Organized by De-Xing Zhang and Ziheng Yang)
- 2013 The American Institute of Biological Sciences (AIBS) and National Association of Biology Teachers (NABT) Evolution Symposium, Atlanta, GA
- 2013 University of Washington, Genome Sciences Symposium 2013, Primate Genomics, 11th Annual Symposium (Organized by Joshua Akey)
- 2012 Ecological Society of America: Strategies for Innovating and Developing Living Stocks Collections
- 2009-2011 Workshop on Molecular Evolution - Cseky Krumlov, Czech Republic (Organized by Mike Cummings and Scott Handley)
- 2011 Workshop on Molecular Evolution - Marine Biological Laboratory (Organized by David Hillis and Mitch Sogin)
- 2011 Morris Goodman Molecular Phylogenetics and Evolution Memorial Symposium (Organized by Derek Wildman)
- 2000-2010 Workshop on Molecular Evolution - Marine Biological Laboratory (Organized by Mike Cummings)
- 2009 Hybridization and Evolution of Primates, German Primate Center, Göttingen, Germany (Organized by Dietmar Zinner and Christian Roos)
- 2009 Workshop on Genomic Analysis of Species Extinctions, Center for Conservation of Endangered Species (Organized by Ollie Ryder and Webb Miller)
- 2008 NESCent Catalysis Group on Perspectives on the Origin and Conservation of Biodiversity in Patagonia, Durham, NC (Organized by Jack Sites)
- 2007 Academy of Natural Sciences Philadelphia, WINS – Women in Natural Sciences: “25 Years of Women in Science – Putting the Gender Gap Under the Microscope
- 2007 Asia Africa Evolution Meeting, Chiba, Japan; Tokyo Institute of Technology (declined)
- 2007 American Genetics Association, 3rd Annual Conservation Genetics Meeting

- 2007 Evolutionary Biology in the 21st Century – Tracing Patterns of Evolution through the Tree of Life, Beijing, China (Organized by Y-L Qiu & M. Donoghue) (declined)
- 2007 American Association for Anthropological Genetics: Origins, the Genetic Evidence, Philadelphia, PA (Organized by L. J. Hlusko)
- 2006 NESCent Working Group on Genomic Introgression (Organized by Marcy Uyenoyama)
- 2005 Primate Diversity: Past, Present, and Future; University Göttingen & German Primate Center; Plenary Speaker (Organized by P.M. Kappeler)
- 2005 NSF-DFG Conference on Biodiversity, AAAS, Washington, D.C.
- 2005 Mathematical Biosciences Institute, Ohio State University. Phylogeography and Phylogenetics (Organized by Craig Moritz, Michael Hickerson, and Dennis Pearl)
- 2005 Understanding Species Diversity on Earth: Unifying Field, Museum and Laboratory Scientists in Global Biodiversity Study (Organized by the DFG and NSF; held at AAAS)
- 2005 Paleobiogeography: Generating New Insights Into The Coevolution Of The Earth And Its Biota; Geological Society of America Annual Meetings (Organized by B.S. Lieberman) (declined)
- 2005 Phylogenetics in Biodiversity Studies, Bangalore, India: (Organized by R. Geeta) - cancelled
- 2004 NAS Colloquium on Systematics and the Origin of Species – Celebration of Ernst Mayr and his works; National Academy of Sciences, Irvine, CA (Organized by F.J. Ayala, J. Hey, and W.M. Fitch)
- 2004 Workshop on Molecular Evolution - Center for Computational and Evolutionary Biology, Institute of Zoology, CAS, Beijing (Organized by De-Xing Zhang and Ziheng Yang)
- 2004 Phylogeography: Principles and Practice; XIXth International Congress of Zoology, Beijing, China (Organized by Godfrey M. Hewitt and D.-X. Zhang)
- 2004 Methodological Advances in Estimation of Species Divergence Dates Using Molecular Data XIXth International Congress of Zoology, Beijing, China (Organized by Ziheng Yang and Bruce. Rannala)
- 2004 Biogeography and Molecular Phylogenetics, Tokyo, Japan; Japan Society for the Promotion of Science (Organized by M. Hasegawa) (declined)
- 2003 Protecting Moving Targets: Integrating Movement Ecology and Conservation; Society for Conservation Biology, Duluth, Minnesota (Organized by M. Neel for the Nature Conservancy's David H. Smith Conservation Research Fellowship Program)
- 2003 Dating in the 21st Century: Theory and Reality in Finding a Date for your Clade; American Society of Botanists, Mobile, Alabama (Organized by Peter Crane and Patrick Herendeen)
- 2000 Reconstructing Primate Phylogeny and Human Evolution in the Age of Genomic Exploration; American Association of Physical Anthropology Annual Meetings (Organized by M. Goodman and M. Weiss)
- 1999 Species Diversity and Endemism in Madagascar; Museum National d'Histoire Naturelle, Paris (Organized by W. Lourenco)
- 1999 Homoplasy in Primate Evolution; American Association of Physical Anthropology Annual Meetings (Organized by C. Lockwood and J. Fleagle) (declined)
- 1998 Contribution of Molecular Biology to Systematics, Phylogeny and Conservation of the Lemurs; International Primatological Society, Antananarivo, Madagascar (Organized by Y. Rumpler)
- 1998 Lemuriform Evolution and Extinction; International Primatological Society, Antananarivo, Madagascar (Organized by William Jungers and Laurie. Godfrey)
- 1998 Combining Molecular and Paleontological data: a twofold approach for documenting major evolutionary patterns; Spring Systematics Symposium, Field Museum of Natural History, Chicago (Organized by Peter Wagner and John Bates)
- 1998 Ancient DNA: concerns and methodology. New York University, Department of Anthropology
- 1998 Phylogenetic Systematics: methods and applications. The National Center for Genome

Resources, workshop in Bioinformatics and Functional Genomics. Northwestern University Medical School
1995 Ancient DNA Techniques. Southeastern Louisiana University, Department of Biology

Teaching

Duke University

- Evolutionary genomics (FOCUS): who are we, where did we come from, and where are we going? - freshman seminar, Fall 2016; Fall 2017)
- Fundamentals of next generation sequencing and bioinformatics (with Peter Larsen) - 500 level (Spring 2016)
- The Politics of Evolution - freshman seminar (Spring 2013; 2014; 2015)
- Phylogenetic Methods (with Allen Rodrigo) - graduate level (Fall 2012)
- Biodiversity: Human Impacts Versus the Forces of Nature (FOCUS) - freshman seminar (Fall 2007, 2008, 2009, 2010)
- What Time Was It?: Exploring methods for Divergence Time Estimation (with David Swofford) - graduate level (Fall 2011)

Yale University

- Diversity of Life (vertebrate evolution section) - undergraduate level (Spring 2002; 2003)
- Advanced Seminar in Phylogenetics and Systematics (lecture/lab course) - graduate level (Fall 2002; 2003; 2004)
- Conservation Biology (with Stephen Stearns) - undergraduate level (Fall 2002; 2003)
- Evolution of Mammals (lecture/lab course) - undergraduate level (Spring 2002, 2003, 2004)

Northwestern University

- Conservation Genetics - undergraduate level (Summer 1997 - 2000)
- Molecular Evolution & Phylogenetics - graduate level (Spring 1998 - 2001)
- Human Gross Anatomy - medical school (Fall 1996 - 2000)

University of Antananarivo - Madagascar

- Phylogenetic Methods - intensive graduate level (Summer 1997)

Lab Trainees

Postdocs

Link Olson, Thomas Delefosse, Praveen Karanth, Achille Raselimanana, Amy Russell, Brice Noonan, David Weisrock, Lauren Chan, Jason Brown, Marina Blanco, Christopher Blair, Peter Larsen, Rachel Williams, George Tiley, Jelmer Poelstra

Graduate Students (primary advisor)

Mike Nowak, Meredith Barrett, Kellie Heckman, Amy Heilman, Sheena Faherty, Erin McKenny, Ryan Campbell

Graduate Students (committee member)

Charles Bell, Melissa Burns, Erica Edwards, Lydia Green, Kathleen Grogan, Alana Kawakami, Sang-Tae Kim, Vincent Lynch, Brian Moore, William Moore, Eric Palkovacs, Bret Payseur, Lisa Pokorny, Gisele Ravololonarivo Randria, Saverio Vicario, Qinglong Zeng, Songhui Zhao

Undergraduates

Zachary Hartman (Northwestern University); Wynn Meyer, Erica Machlin, and Melodie Zamora (Yale University); Dean Choi, Teresa Ai, Samantha Pearlman, Johnathan Schwartz, Cynthia Wang, Megan Morikawa, Danielle Black, Jeff Shi, Audra Bass, Corinne Hayes, Lauriane Pinto, and Michelle Larsen (Duke University); Caroline Johnson (UNC-Chapel Hill)

Technicians

Kasia Witkos, Jodi Irwin, Melissa Burns, Carol Hanley, Isabella Fiorentino, Kelsie Hunnicutt

Academic Service

Duke Lemur Center - Notable Accomplishments (2006 - present)

- Saw to completion a \$10 million project involving the conception, design, contracting, construction and completion of two multi-function animal housing facilities. Total square footage of > 35,000.
- Complete reorganization of staff. Created positions, chaired search committees, and recruited Director of Administration and Operations, Colony Curator, Research Manager, Research Technician, Conservation Coordinator, Development Officer, Communications Director, Education Manager, Student Project Coordinator, Director - Division of Fossil Primates, Data Manager, Science Communicator, Grants Specialist, Postdoctoral Associate (In-situ Conservation), Postdoctoral Associate (Field Research)
- Saw to completion project for digitization and open access of >50 years of life history data for DLC colony (see Zehr et al., 2014; *Scientific Data*)
- Launched SAVA Conservation Initiative in Madagascar (January 2012)
- Developed and completed 5-year Strategic Plan (December 2011)
- 2.5-fold increase in number of research projects
- 3.0-fold increase in % of colony used in research
- 3.6-fold increase in external institutions served
- 4.0-fold increase in private donations and non-federal grants
- 3.5-fold increase in undergraduate projects
- Have brought in ~ \$4.5 million in extramural grant support for colony support

Duke University

- Duke Tropical Conservation Initiative (Co-chair with Jeff Vincent & Chris Woods) (2014 – present)
- Biology Department Annual Performance Review Committee (2016 - present)
- Executive Committee of the Academic Council (July 2014 - 2016)
- Pratt School of Engineering, Dean's Search Committee (Fall, 2015)
- Global Priorities Committee (2014 – 2017)
- Board of Trustees Academic Priorities Committee (2015 - 2016)
- NESCent Transition Team (June 2014 - 2015)
- Academic Council (2007 – 2009, member; 2012 - 2013, alternate; 2014 - 2016, member)
- Africa Initiative Steering Committee (2010 - 2015)
- Tenure Review Committee (Chair, Fall 2013)
- Biology Department Promotions Review Committee (Committee Chair, Spring 2011)
- Biology Department Performance Review Committee (Spring, 2011)
- Reappointment Committee (Chair, Spring 2011)
- Departmental Search Strategy Committee (Fall 2009)
- Biology Department Graduate Admissions (2008 - 2010)
- NESCent Director Appointment and Promotion Committee (Summer 2009)
- Biology Department Strategic Planning Committee (Summer 2009)
- Promotion Review Committee (2007 - present)
- Biological Anthropology and Anatomy Task Force (2006 – 2007)
- Role of Professors of the Practice (Spring 2007)
- Department of Biology, Graduate Advisory Committee (Spring 2007)
- Tenure Review Committee (Spring 2007)

Yale University

- Director of Graduate Admissions, Dept. of Ecology and Evolutionary Biology, Yale University (2002 – 2005)
- Donnelley Postdoctoral Fellowship Selection Committee (Spring, 2005)
- EEB Undergraduate Advisor (Class of 2004)
- African Studies Council (2003 - 2005)
- Yale Representative to Tropical Biology Association (2002 - 2005)
- Donnelley Postdoctoral Fellowship Selection Committee (Spring, 2005)

- Peabody Museum Advisory Council for NSF Graduate Teaching Fellows in K-12 Education program (Fall 2004)
- Science, Technology, and Research Scholars (STARS) Advisory Committee (Fall, 2004)
- Shared-equipment grant exploratory committee (Fall 2004; committee chair)
- Packard Fellowship nomination committee (Spring 2004)
- Coe Professorship in Ornithology search committee (Spring, 2003)
- Yale Representative to Organization for Tropical Studies (2002/2003)
- Yale Biological Safety Committee (2002/2003)
- EEB Seminar Series Coordinator (2001/2002)
- George Gaylord Simpson Prize Committee (Spring, 2002)
- Long-term Genetic Resource Facility for the Yale Peabody Museum (Spring, 2002; Committee Chair)
- ESC Sub-Committee for Teaching Facilities (Fall, 2002)
- EEB faculty search committee (Fall, 2001)

Professional Service

Journals and Professional Societies

- Associate Editor for *Molecular Biology and Evolution* (2017 - present)
- Advisory Board, *Primates*
- Society for Systematic Biology, Past President (2017)
- Society for Systematic Biology, President (2016)
- Society for Systematic Biology, President Elect (2015)
- Ernst Mayr Award Committee, Society for Systematic Biology (2014)
- Editorial Board for *Journal of Systematics and Evolution* (2014 - present)
- Editorial Board for *Molecular Phylogenetics and Evolution* (2002 - present)
- PLoS Currents: Tree of Life Moderator Board (2010 – present)
- IUCN/SSC Primate Specialist Group (2009 – 2015)
- American Society of Naturalists, Chair, Nominating Committee (2012)
- American Society of Naturalists, Nominating Committee (2009 – 2011)
- Integrated Primate Biomaterials and Information Resource, Scientific Advisory Committee (2003 - 2007)
- Associate Editor for *Evolution* (2002-2005)
- Society for Systematic Biology, Council Member (2002 - 2005)
- Editorial Board for *International Journal of Primatology* (2000 - 2006)
- Editorial Board for *Systematic Biology* (1995 - 1998)

Ad hoc review for: *American Journal of Physical Anthropology, American Journal of Primatology, American Museum Novitates, American Naturalist, Ancient Biomolecules, Biochemical Genetics, Biological Journal of the Linnean Society, Biology Letters, BMC Evolutionary Biology, BMC Genomics, Cladistics, Conservation Genetics, Current Biology, Evolution, Gene, Genome Biology and Evolution, International Journal of Primatology, Journal of Evolutionary Biology, Journal of Human Evolution, Journal of Molecular Evolution, Methods in Ecology and Evolution, Molecular Biology and Evolution, Molecular Development and Evolution, Molecular Ecology, Molecular Ecology Resources, Molecular Phylogenetics and Evolution, Nature, Nature Genetics, PLoS Genetics, PLoS ONE, PeerJ, Proceedings of the National Academy of Sciences, Proceedings of the Royal Society B, Science, Systematic Biology, Zoological Journal of the Linnean Society*

Funding Agencies

- NSF Division of Environmental Biology, Committee of Visitors (2009; 2012)
- NSF Panel Member (various Directorates): annually 1998 – 2013; 2015 - 2018
- NIH Study Section (NHP Genomics): 2015
- The Leakey Foundation (regular ad hoc reviewer)

- National Geographic Society's Committee for Research and Exploration (regular ad hoc reviewer)
- Swiss National Science Foundation
- AAAS Women's International Scientific Collaboration Program

Ad hoc service

- Accreditation review of the Richard Gilder Graduate School at the American Museum of Natural History (Committee Chair; 2009)
- Evaluator for a "Proposal for a joint Doctoral Program in Evolutionary Biology between the University of California, Riverside and San Diego State University" (2009)
- Duke University Primate Center, External Scientific Advisory Committee (2001 - 2005)
- External Review Committee for New York Consortium on Evolutionary Primatology (NYCEP) (2007)
- Louisiana Education Quality Support Fund (LEQSF) - ad hoc review
- New York University Research Challenge Fund - ad hoc review
- Smithsonian Institution Scholarly Studies Program - ad hoc review

Selected Media Coverage

- "Lemur study highlights role of diet in shaping gut microbiome" *ScienceDaily* (December 2017)
- "Separated since the dinosaurs, bamboo-eating lemurs, pandas share common gut microbes" AAAS *EurekaAlert* (December 2017)
- "Jumping genes play a big role in what makes us human" *ScienceNews* (May 2017)
- "Mouse lemurs --- a model in the wild" *ASBMB Today* (November 2017)
- "Most Primate Species Threatened With Extinction, Scientists Find" *New York Times* (January 2017)
- "Congress gets another reminder from scientists that climate change isn't coming --- it's already here" *The Huffington Post* (June 2016)
- "This absurdly adorable mouse lemur lets scientists travel back in time" *The Washington Post* (July 2016)
- "Lemur extinctions in Madagascar leave behind doomed orphan trees" *New Scientist* (April 2016)
- "Lemur extinctions are harmful to Madagascar's plant life, too" *Smithsonian.com* (April 2016)
- "Three new primate species discovered in Madagascar" *Phys.org* and *Science Daily* (April 2016)
- "Emerging zoonotic pathogens, lemur - Madagascar: blood transcriptome sequencing" *ProMED Digest*, Vol 43, Issue 68 (January 2016)
- "New way to detect human-animal diseases tested in lemurs: RNA sequencing could help predict future outbreaks" *Science Daily* (January 2016)
- "The hazards of isolation" *Science* (Editor's Choice) (March 27, 2015; Vol. 347 no. 6229 p. 1433)
- "Lemurs expected to lose much of their ranges this century" *Science News* (March 2015)
- "The future of Madagascar's lemurs" *BBC Earth* (February 2015)
- "Look Out Lemurs: Climate Change Is Taking Your Land" *Scientific American* (February 2015)
- "DNA sheds light on why largest lemurs disappeared" *Science News* (December 2014)
- "The Mystery of Madagascar's Biodiversity" *Nature World News* (October 2014)
- "No single explanation for Biodiversity in Madagascar" *Science Daily* (October 2014)
- "Could vaccines help save lemurs?" *National Geographic News* (October 2014)
- "Reptilien auf Madagaskar: Zwei von fünf Arten sind vom Aussterben bedroht" *Spiegel Online* (August 2014)
- "The lives of lemurs, uploaded to the web", *BBC News* (July 2014)
- "Lemurs in 3-D" North Carolina Public Radio, WUNC's *The State of Things* (May 2014)
- "Could people hibernate? Lemurs give clues" *National Geographic* (September 2013)
- "Fat-tailed dwarf lemurs may point the way to sci-fi-like suspended animation" *NBC News* (September 2013)
- "Lemur hibernation patterns shed light onto why humans sleep" *US News and World Report* (September 2013)
- "Odd Hibernating Primate, Fat-Tailed Dwarf Lemur, May Help Scientists Understand Human Sleep" *Huffington Post* (September 2013)

"Snoozing lemurs hint at why we sleep" *Futurity* (September 2013)

"Cute Lemur a Boon for Long-Duration Spaceflight?" *Discovery News* (September 2013)

"Could lemur hibernation answer space travel questions?" *Los Angeles Times* (September 2013)

"Studying Lemur Hibernation Could Explain The Benefits Of Sleep" *North Carolina Public Radio, WUNC* (September 2013)

"Tree-loving lemur digs hole in winter" *Nature, Research Highlights* (May 2013)

"Zoologist: The hibernating lemur that feeds on its tail" *NewScientist* (May 2013)

"More Hibernating Lemurs Found In Madagascar" *Nature World News* (May 2013)

"Radio collars reveal hibernating lemurs" *Futurity* (May 2013)

"I See You: New Mouse Lemurs Spotted" *Science* (March 2013)

"Two new species of mouse lemur found in Madagascar" *Scientific American* (March 2013)

"DNA splits new look-alike lemurs" *Futurity* (March 2013)

"Tiny lookalike lemurs are actually two new species" *NBC News* (March 2013)

"Rat-size ancestor said to link man and beast" *New York Times* (February 2013)

"Parasites of Madagascar's Lemurs Expanding With Climate Change" *DukeTODAY* (January 2013)

"Will lemurs survive parasites gone wild?" *Futurity* (January 2013)

"Lemur parasites may expand across Madagascar thanks to Climate Change" *redOrbit* (January 2013)

"Inspirations: an interview with Anne Yoder" *The Systematist* (2012, no. 34)

"Star Search: Could the grey mouse lemur be the next best model for human disease?" *HHMI Bulletin* (November 2011)

"Wisdom: Anne Yoder, Director of the Duke's Lemur Center" *Towerview* (June 2010)

"Living with Lemurs" *LiveScience* (January 2009)

"Evolutionary Biologists Aim to Protect Madagascar's Plants and Animals" *ActionBioscience* (October 2006)