

## ANDREA L. BADEN, PH.D.

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### PROFESSIONAL APPOINTMENTS

2021 – *present* Associate Professor, Department of Anthropology, Hunter College  
2014 – *present* Faculty Member, Departments of Anthropology & Biology, The Graduate Center of The City University of New York (CUNY)  
2014 – *present* Core Faculty Member, The New York Consortium in Evolutionary Primatology (NYCEP)  
2014 – 2020 Assistant Professor, Department of Anthropology, Hunter College  
2011 – 2013 Postdoctoral Research Associate, Department of Anthropology, Yale University  
2012 – 2013 Adjunct Faculty, Department of Anthropology, Southern Connecticut State University  
2012 Adjunct Faculty, Department of Anthropology, Hunter College, City University of New York (CUNY)

### RESEARCH AFFILIATIONS

2005 – *present* Director, Ranomafana Ruffed Lemur Project, Ranomafana National Park, Madagascar  
2005 – *present* Scientific Advisor for Mangevo Research Site, Centre ValBio Research Station, Ranomafana National Park, Madagascar  
2003 – *present* Research Affiliate, Institute for the Conservation of Tropical Environments, Stony Brook, NY & Antananarivo, Madagascar; Directors: Dr. Patricia Wright, Dr. Benjamin Andriamihaja

### EDUCATION

2006-2011 Ph.D., Anthropological Sciences, Stony Brook University  
2003-2006 M.A., Anthropological Sciences, Stony Brook University  
1999-2003 B.A., Anthropology (*Cum Laude*), University of Miami

### ANCILLIARY EDUCATION

2019 Tree Climber Training for Canopy Research, Cornell University Outdoor Education  
2001 Madagascar Study Abroad, Stony Brook University

### RESEARCH INTERESTS

Primate molecular ecology, strepsirrhine behavioral ecology and evolution, conservation biology

### RESEARCH GRANTS

2019	<b>National Science Foundation (PI)</b> <i>RAPID: Investigating infant care in an anticipatory breeder via canopy-based research</i>	<b>\$42,113</b>
2019	<b>Primate Conservation, Inc. – Action Fund (PI)</b> <i>Using canopy-based research to investigate ruffed lemur infant care strategies in the nest.</i>	<b>\$2,505</b>
2019	<b>Primate Conservation, Inc. (PI)</b> <i>Influence of forest structure and resource availability on the fission-fusion social patterns of black-and-white ruffed lemurs (<i>Varecia variegata</i>). Awarded to PhD</i>	<b>\$2,450</b>

	student, Amanda Mancini.	
2018	<b>The Leakey Foundation Research Grant (PI)</b>	<b>\$24,984</b>
	<i>What drives microbiome development and maintenance in a fission-fusion primate?</i>	
2018	<b>PSC-CUNY Enhanced Research Award (PI)</b>	<b>\$11,080</b>
	<i>What predicts gut microbial communities in a lemur with fission-fusion social dynamics?</i>	
2017	<b>American Society of Primatologists (PI)</b>	<b>\$1,090</b>
	<i>Reconstructing the demographic history of black-and-white ruffed lemurs (<i>Varecia variegata</i>) in Ranomafana National Park. Awarded to MA student, Aparna Chandrashekar.</i>	
2017	<b>Margot Marsh Biodiversity Fund (Co-PI)</b>	<b>\$10,000</b>
	<i>Molecular techniques: Identifying conservation priorities in Madagascar's remaining ring-tailed lemur populations. Lead PI: Tara Clarke (Duke &amp; Lemur Love, Inc.).</i>	
2017	<b>Presidential Fund for Faculty Advancement (PI)</b>	<b>\$2,790</b>
2016	<b>American Society of Primatologists (PI)</b>	<b>\$1,000</b>
	<i>Impact of landscape heterogeneity on the genetic structure of a critically endangered primate (<i>Varecia variegata</i>). Awarded to PhD student, Amanda Mancini.</i>	
2016-2021	<b>National Science Foundation – GRFP (PI)</b>	<b>\$138,000</b>
	Awarded to PhD student, Amanda Mancini.	
2015	<b>PSC-CUNY Enhanced Research Award (PI)</b>	<b>\$11,972</b>
	<i>Landscape genetics of seven sympatric lemur species in Ranomafana National Park, Madagascar.</i>	
2015	<b>Shuster Faculty Fellowship Fund (PI)</b>	<b>\$2,000</b>
2015	<b>Presidential Fund for Faculty Advancement (PI)</b>	<b>\$2,000</b>
2014	<b>Conservation International (Co-PI)</b>	<b>\$2,500</b>
	<i>Varecia variegata and Canarium (Burseraceae): Fruit Dispersal, Forest Structure, Conservation, and the Subfossil Record in Madagascar. Lead PI: Sarah Federman (Yale).</i>	
2014	<b>The Leakey Foundation Research Grant (Co-PI)</b>	<b>\$21,869</b>
	<i>Profiling caregivers: Molecular, endocrine and phenotypic expression of allomaternal care in red-bellied lemurs, <i>Eulemur rubriventer</i>. Lead PI: Stacey Tecot (Univ. Arizona).</i>	
2014	<b>Rowe-Wright Primate Fund (Co-PI)</b>	<b>\$3,500</b>
	<i>The Ranomafana Red-Bellied Lemur Project: demography and infant care in red-bellied lemurs, <i>Eulemur rubriventer</i>. Lead PI: Rachel Jacobs (Stony Brook Univ.).</i>	
2012	<b>Margot Marsh Biodiversity Fund (Co-PI)</b>	<b>\$22,287</b>
	<i>Systematics of the Greater Bamboo and Ruffed Lemur Project. Lead PI: Edward E. Louis, Jr.</i>	
2010	<b>The Leakey Foundation Research Grant (PI)</b>	<b>\$2,013</b>
	<i>Mechanisms influencing fission-fusion sociality in a Malagasy strepsirrhine.</i>	
2010	<b>Rowe-Wright Primate Fund (PI)</b>	<b>\$800</b>
	<i>Hormonal correlates of infant-care in a cooperatively breeding lemur, <i>Varecia variegata</i>.</i>	
2007-2008	<b>National Science Foundation – DDIG (Co-PI)</b>	<b>\$14,953</b>
	<i>Social and reproductive tactics of black-and-white ruffed lemurs. Lead PI (Advisor): Patricia C. Wright.</i>	
2006	<b>Primate Conservation, Inc. Research Grant (PI)</b>	<b>\$1,500</b>
	<i>Physical and genetic viability of the black-and-white ruffed lemur (<i>Varecia variegata</i>) in Ranomafana National Park, Madagascar.</i>	
2005	<b>IDPAS, Stony Brook University (PI)</b>	<b>\$500</b>
	<i>Population density and community structure of the black-and-white ruffed lemur (<i>Varecia variegata</i>) at Mangevo, Madagascar.</i>	

2005	<b>Conservation International, Primate Action Fund (PI)</b>	<b>\$3,000</b>
	<i>Population density and community structure of the black-and-white ruffed lemur (Varecia variegata) at Mangevo, Madagascar.</i>	
2005	<b>Primate Conservation, Inc. Research Grant (PI)</b>	<b>\$3,750</b>
	<i>Population density and community structure of the black-and-white ruffed lemur (Varecia variegata) at Mangevo, Madagascar.</i>	
2004	<b>Primate Conservation, Inc. Research Grant (PI)</b>	<b>\$2,600</b>
	<i>A Survey of New and Proposed Lepilemur Species in Ranomafana National Park.</i>	

#### AWARDS, HONORS & FELLOWSHIPS

2017	<b>Feliks Gross Endowment Award for Outstanding Research in the Humanities and Sciences (\$750)</b> CUNY Academy for the Humanities and Sciences
2012	<b>Postdoctoral Scholar Travel Award (\$500)</b> Yale University
2011	<b>William S. Pollitzer Travel Award (\$500)</b> American Association of Physical Anthropologists
2011	<b>The Madeline Fusco Graduate Fellowship (\$5,000)</b> Stony Brook University
2009	<b>Gerry Ruppenthal Travel Grant (\$500)</b> American Society of Primatologists
2007-2008	<b>J. William Fulbright Fellowship (\$28,700)</b> "Social and reproductive tactics of black-and-white ruffed lemurs."

#### PUBLICATIONS

PEER REVIEWED ARTICLES (\*student co-author; †joint senior authorship)

34. Westphal D\*, Mancini AN\*, **Baden AL**. Accepted. Primate landscape genetics: A review and practical guide. *Evolutionary Anthropology*.
33. Beeby N\*, **Baden AL**. In press. Variability and seasonality in the diet and feeding ecology of black-and-white ruffed lemurs (*Varecia variegata*) in Ranomafana National Park, southeastern Madagascar. *American Journal of Physical Anthropology*. doi.org/10.1002/ajpa.24230
32. **Baden AL**, Oliveras JR\*, Gerber BD. 2021. Sex-segregated range use by black-and-white ruffed lemurs (*Varecia variegata*) in Ranomafana National Park, Madagascar. *Folia Primatologica* 92:12-34. doi.org/10.1159/000510965 (preprint: bioRxiv/2020/016774)
31. **Baden AL**†, Webster TH†, Bradley BJ. 2020. Genetic relatedness cannot explain social preferences in black-and-white ruffed lemurs (*Varecia variegata*). *Animal Behaviour* 164:73-82. doi.org/10.1016/j.anbehav.2020.04.003
30. Chandrashekar A\*, Kneirim J\*, Khan S\*, Raboin DL\*, Venkatesh S\*, Clarke TA, Couzzo F, La Fleur M, Lawler R, Parga J, Reuter K, Sauther M, Hantainirina RR, **Baden AL**. 2020. Genetic population structure of endangered ring-tailed lemurs (*Lemur catta*) from nine sites in southern Madagascar. *Ecology and Evolution* 10:8030-8043. doi.org/10.1002/ece3.6337
29. Louis EE, Sefczek TM, Raharivololona B, King T, Morelli TL, **Baden AL**. 2020. *Varecia variegata*. *The IUCN Red List of Threatened Species* 2020: e.T22918A115574178.
28. Morelli TL, Smith AB, Mancini AN\*, Balko EA, Borgerson C, Dolch R, Farris Z, Federman S, Holmes S, Irwin M, Jacobs RL, Johnson SE, King T, Lehman S, Louis EE Jr., Murphy A\*, Ratolojanahary TH, Ratsimbazafy J, Razafindratsima O, **Baden AL**. 2020. The fate of Madagascar's rainforest habitat. *Nature Climate Change* 10:89-96. doi.org/10.1038/s41558-019-0647-x
27. **Baden AL**, Mancini AN\*, Webster TH, Federman SF, Holmes SM, Johnson SE, Kamilar JM, Louis EE Jr, Bradley BJ. 2019. Anthropogenic pressures explain population genetic structuring across a Critically Endangered lemur species range. *Nature Scientific Reports* 9:16276. doi.org/10.1038/s41598-019-52689-2
26. **Baden AL**. 2019. A description of nesting behaviors, including factors impacting nest site selection, in black-and-white ruffed lemurs (*Varecia variegata*). *Ecology and Evolution* 9:1010-1028. doi.org/10.1002/ece3.4735

25. Zohdy S, Durden LA, **Baden AL**. 2019. Ectoparasitism in black-and-white ruffed lemurs (*Varecia variegata*) in southeastern Madagascar. *Journal of Wildlife Diseases* 55:174-178. doi.org/10.7589/2017-12-311
24. Semel BP\*, **Baden AL**, Salisbury RL\*, McGee EM, Wright PC, Arrigo-Nelson SJ. 2019. Assessing the function of geophagy in a Malagasy rainforest lemur. *Biotropica* 51: 769-780. doi.org/10.1111/btp.12699
23. Mann AE, Florent F, Lemay M, Morien E, Billy V, Kowalewski M, Di Fiore A, Link A, Goldberg TL, Tecot S, **Baden AL**, Gomez A, Sauther ML, Cuzzo F, Rice GAO, Dominy NJ, Stumpf R, Lewis RJ, Swedell L, Amato K, Wegener Parfrey L. 2019. Biodiversity of protists and nematodes in the wild non-human primate gut microbiome. *The ISME Journal* 14: 609-622. doi.org/10.1038/s41396-019-0551-4
22. Vagell R\*, Vagell VJ, Jacobs RL, Gordon J, **Baden AL**. 2018. SMARTA: Subject-mediated automatic remote testing apparatus (SMARTA) for discrimination tasks. *Behavior Research Methods* 51: 2597–2608. doi.org/10.3758/s13428-018-1113-9
21. Tecot SR<sup>‡</sup>, **Baden AL**<sup>‡</sup>. 2018. Profiling caregivers: hormonal variation underlying allomaternal care in wild red-bellied lemurs. *Physiology and Behavior*. 193:135–148. doi.org/10.1016/j.physbeh.2017.12.007
20. Amato KR, Sanders J, Song SJ, Nute M, Metcalf JL, Thompson L, Morton J, Amir A, McKenzie V, Humphrey G, Gogul G, Gaffney J, **Baden AL**, Britton J, Cuzzo F, Di Fiore A, Dominy N, Goldberg T, Gomez A, Kowalewski M, Lewis R, Link A, Sauther M, Tecot SR, White B, Nelson K, Stumpf R, Knight R, Leigh S. 2018. Evolutionary trends in host physiology outweigh dietary niche in structuring primate gut microbiomes. *The ISME Journal* 13:576-587. doi.org/10.1038/s41396-018-0175-0
19. Raulo A\*, Ruokolainen L, Hanski I, Lane A\*, Amato K, Knight R, Leigh S, Stumpf R, White B, Nelson K, **Baden AL**<sup>‡</sup>, Tecot SR<sup>‡</sup>. 2017. Social behavior and gut microbiota in red-bellied lemurs (*Eulemur rubriventer*): In search of the role of immunity in the evolution of sociality. *The Journal of Animal Ecology* 87:388-399. doi.org/10.1111/1365-2656.12781
18. Crowley BE, Slater PA, Arrigo-Nelson SJ, **Baden AL**, Karpanty SM. 2017. Testing a geochemical tool for tracking predator foraging ranges: Strontium isotope ratios support low elevation foraging limits for Henst's. *Wildlife Society Bulletin* 41:743-751. doi.org/10.1002/wsb.840
17. Jacobs RL, MacFie TS, Spriggs AN\*, **Baden AL**, Morelli TL, Irwin MT, Lawler RR, Kappeler PM, Wright PC, Louis Jr EE, Mundy NI, Bradley BJ. 2017. Novel and highly polymorphic colour vision in the diurnal, largest-bodied extant lemurs. *Biology Letters* 13: 20170050. doi.org/10.1098/rsbl.2017.0050
16. Crouse D, Jacobs RL, Richardson Z\*, Klum S\*, Jain A, **Baden AL**, Tecot SR. 2017. LemurFaceID: A face recognition system to facilitate lemur conservation. *BMC Zoology* 2:2. doi.org/10.1186/s40850-016-0011-9
15. Federman S\*, Sinnott-Armstrong M\*, **Baden AL**, Chapman CA, Daly D, Richard AF, Valenta K, Donoghue M. 2017. The paucity of frugivores in Madagascar may not be due to unpredictable temperatures or fruit resources. *PLoS One* 12(1): e0168943. doi.org/10.1371/journal.pone.0168943
14. **Baden AL**, Webster T\*, Kamilar JM. 2016. Resource seasonality and reproduction predict fission-fusion dynamics in a Malagasy strepsirrhine, *Varecia variegata*. *American Journal of Primatology* 78:256-279. doi.org/10.1002/ajp.22507
13. Federman S\*, Dornburg A\*, Daly DC, Downie A, Yoder AD, Sargis EJ, Perry GH, Donoghue MJ, Richard A, **Baden AL**. 2016. Implications of lemuriform extinctions for Malagasy flora. *Proceedings of the National Academy of Sciences* 113:5041-5046. doi.org/10.1073/pnas.1523825113
12. Fleagle JG, Gilbert CC, **Baden AL**. 2016. Comparing primate crania: the importance of fossils. *American Journal of Physical Anthropology* 161:259-275. doi.org/10.1002/ajpa.23026
11. Jacobs RL, Spriggs A\*, MacFie TS, **Baden AL**, Irwin MT, Wright PC, Louis EE Jr, Lawler RR, Mundy NI, Bradley BJ. 2016. Primate genotyping via High Resolution Melt Analysis (HRMA):

- rapid and reliable identification of color vision status in wild lemurs. *Primates* 4:541-547. doi.org/10.1007/s10329-016-0546-y
10. Mundy NI, Morningstar NC\*, **Baden AL**, Fernandez-Duque E, Dávalos V\*, Bradley BJ. 2016. Can colour vision re-evolve? Variation in the X-linked opsin locus of cathemeral Azara's owl monkeys (*Aotus azarae azarae*). *Frontiers in Zoology* 13:9. doi.org/10.1186/s12983-016-0139-z
  9. Kamilar JM, **Baden AL**. 2014. What drives flexibility in primate social organization? *Behavioral Ecology and Sociobiology* 68:1677-1692. doi.org/10.1007/s00265-014-1776-x
  8. **Baden AL**, Holmes SM\*, Johnson SE, Engberg SE, Louis EE Jr, Bradley BJ. 2014. Species-level view of population structure and gene flow for a critically endangered primate (*Varecia variegata*). *Ecology and Evolution* 4:2675-2692. doi.org/10.1002/ece3.1119
  7. **Baden AL**, Wright PC, Louis EE, Jr, Bradley BJ. 2013. Communal nesting, kinship, and maternal success in a social primate. *Behavioral Ecology and Sociobiology*. 67:1939-1950. doi.org/10.1007/s00265-013-1601-y
  6. Holmes SM\*, **Baden AL**, Brenneman RA, Engberg SE, Louis EE Jr, Johnson SE. 2013. Patch size and isolation influence genetic patterns in black-and-white ruffed lemur (*Varecia variegata*) populations. *Conservation Genetics*. 14:615-624. doi.org/10.1007/s10592-013-0455-1
  5. Tecot SR<sup>‡</sup>, **Baden AL**<sup>‡</sup>, Romine N\*, Kamilar JM. 2012. Infant parking and nesting, not allomaternal care, influence Malagasy primate life histories. *Behavioral Ecology and Sociobiology* 66:1375-1386. doi.org/10.1007/s00265-012-1393-5
  4. Wright PC, Tecot SR, Erhart EM, **Baden AL**, King SJ, Grassi C. 2011. Frugivory in four sympatric lemurs: Implications for the future of Madagascar's forests. *American Journal of Primatology*.73:1-18. doi.org/10.1002/ajp.20936
  3. Fleagle JG, Gilbert CC, **Baden AL**. 2010. Primate cranial diversity. *American Journal of Physical Anthropology*. 142:565-578. doi.org/10.1002/ajpa.21272
  2. Ross CF, **Baden AL**, Georgi J, Herrel A, Metzger K, Reed D, Schaeerlaeken V, Wolff M. 2010. Chewing variation in lepidosaurs and primates. *Journal of Experimental Biology*. 213:572-584. doi.org/10.1242/jeb.036822
  1. **Baden AL**, Brenneman RA, Louis EE Jr. 2008. Morphometrics of wild black-and-white ruffed lemurs [*Varecia variegata*, Kerr 1972]. *American Journal of Primatology*.70:913-926. doi.org/10.1002/ajp.2058

PREPRINTS (\*student co-author; <sup>‡</sup>joint senior authorship)

IN REVIEW/REVISION ARTICLES (\*student co-author; <sup>‡</sup>joint senior authorship)

- Amato KR, Chaves OM, Mallott EK, Eppley TM, Abreu F, **Baden AL**, Barnett AA, Bicca-Marques JC, Boyle S, Chapman CA, Lopes KGD, Fan P, Fashing P, Felton A, Fontes IP, Fruth B, de la Fuente MFC, Fortes V, Grueter CC, Hohmann G, Irwin M, Matthews J, Mekonnen A, Ostner J, Nguyen N, Piel A, Pinacho-Guendulain B, Aredes EPQ, Razanaparany T, Rothman JM, Schiel N, Schuelke O, Shanee S, Souto A, Souza-Alves JP, Tecot S, Stewart F, Stone A, Sun B, Valenta K, Vogel E, Wich S, Zeng Y. Occurrence of fermented food consumption in wild non-human primates and its ecological drivers. Submitted to *American Journal of Physical Anthropology*.
- Calkins S\*, **Baden AL**. Rapid assessment of wild ring-tailed lemur (*Lemur catta*) populations in southwestern Madagascar. Submitted to *Folia Primatologica*.
- Junge RE, **Baden AL**. Health assessment of black-and-white ruffed lemurs (*Varecia variegata*) in Ranomafana National Park, Madagascar. Submitted to *Journal of Zoo and Wildlife Medicine*.
- Raboin DL\*, **Baden AL**, Rothman JM. Maternal feeding benefits of allomaternal care in black-and-white colobus (*Colobus guereza*). Submitted to *American Journal of Primatology*.
- Stead SM\*, Bădescu I, Raboin D\*, Sicotte P, Rothman JM, **Baden AL**, Teichroeb JA. Infant handling by adult male black-and-white colobus (*Colobus* sp.). Submitted to *Primates*.

*IN PREP ARTICLES* (\*student co-author; †joint senior authorship if not first or last author)

- Baden AL**, Batist CH\*, Bendell F\*, Noromalala Eliette\*. Mating system of black-and-white ruffed lemurs in Ranomafana National Park, Madagascar. For submission to *Primates*.
- Birr M\*, **Baden AL**, Tecot SR. Functional relationships between estradiol and paternal care in red-bellied lemurs (*Eulemur rubriventer*). For submission to *Hormones and Behavior*.
- Mancini AN\*, **Baden AL**. Floristic diversity changes with habitat degradation throughout the Ranomafana-Andringitra Corridor. For submission to *Biotropica*.
- McManus N\*, Holmes SM, Louis EE Jr, Johnson SE, **Baden AL**†, Amato KR†. The gut microbiome as an indicator of habitat disturbance in a Critically Endangered lemur. For submission to *Conservation Biology*.
- Vagell R\*, Andres-Bray T\*, **Baden AL**. Hand preference in ruffed lemurs (*Varecia* spp.) when performing cognitive touchscreen tasks. For submission to *American Journal of Primatology*.
- Vagell R\*, Vagell V, Mancini AN, Gordon J, Jacobs RL, **Baden AL**. *Varecia* color vision.

*TEXTBOOKS*

- Fleagle JG, Gilbert CC, **Baden AL**. *Under contract*. Primate Adaptation and Evolution, 4<sup>th</sup> Edition. Elsevier Press.

*EDITED BOOK VOLUMES*

- Fleagle JG, Shea JJ, Grine FE, **Baden AL**, Leakey RE, eds. 2012. Out of Africa I: The First Hominin Colonization of Eurasia. Dordrecht: Springer. 550p.

*DATASETS*

- Batist C, **Baden AL**. 2021. Bibliometric survey of fission-fusion dynamics in mammals. figshare. Dataset. <https://doi.org/10.6084/m9.figshare.13557485.v1>

*PEER REVIEWED BOOK CHAPTERS* (\*student co-author; †joint senior authorship)

8. Vasey N, **Baden AL**, Ratsimbazafy J. In press. *Varecia*, ruffed or variegated lemurs, *varikandana*, *varijatsy*. In: Goodman, S. M. (ed.) *The new natural history of Madagascar*. Princeton, Princeton University Press.
7. Deppe A, **Baden AL**, Wright PC. 2016. The effects of the lunar cycle, temperature, and rainfall on the trapping success of wild brown mouse lemurs (*Microcebus rufus*) in Ranomafana National Park, southeastern Madagascar. In: Lehman S, Radespiel E, and Zimmermann E, editors. *Dwarf and Mouse Lemurs of Madagascar: Biology, Behavior, and Conservation Biogeography of the Cheirogaleidae*. Cambridge: Cambridge University press, pp. 195-209.
6. Tecot SR†, **Baden AL**†. 2015. Allomaternal care in primates. In: Scott RA, Kosslyn SM, Eds. *Emerging Trends in the Behavioral and Social Sciences*. Hoboken: Wiley Blackwell.
5. Tecot SR†, **Baden AL**†, Romine N\*, Kamilar J. 2013. Reproductive Strategies and Infant Care in the Malagasy Primates. In: Clancy K, Hinde K, Rutherford J, eds. *Primate Developmental Trajectories in Proximate and Ultimate Perspectives*. Springer Developments in Primatology: Progress and Prospects Book Series. New York: Springer, pp. 321-359.
4. Balko EA, **Baden AL**. 2013. Entries *Varecia variegata*, *V.v. editorum*, *V.v. subcincta*, *V.v. variegata*. In: Rowe N, Myers M, eds. *All The World's Lemurs, Lorises, Bushbabies, and Pottos: The Primate Suborder Strepsirhini*. Charlestown, RI: Primate Conservation, Inc.
3. **Baden AL**. 2013. Entries for *Avahi cleesi*, *Avahi occidentalis*, *Avahi unicolor*, *Indri indri*, *Propithecus coquereli*. In: Rowe N, Myers M, eds. *All The World's Lemurs, Lorises, Bushbabies, and Pottos: The Primate Suborder Strepsirhini*. Charlestown, RI: Primate Conservation, Inc.
2. Wright PC, Erhart EM, Tecot SR, **Baden AL**, Arrigo-Nelson S, Herrera J\*, Morelli TL, Blanco M, Deppe A, Atsalis S, Johnson SE, Tan C, Zohdy S\*. Long-term lemur research at Centre ValBio, Ranomafana National Park, Madagascar. 2012. In: Kappeler PM, Watts D, eds. *Long-term research in Primates*. Dordrecht: Springer. pp. 67-100.

1. Wright PC, King SJ, **Baden A**, and Jernvall J. 2008. Aging in wild female lemurs: Sustained fertility with increased infant mortality. In: Atsalis S, Margulis S, Hop PR, eds. Reproductive Aging in Primates. Basel: Karger Press, Basel, vol. 36, pp. 17-28.

*NEWS, REVIEWS, REPORTS & EDITORIALS*

- 2020 Louis, EE Jr., Sefczek TM, Raharivololona B, King T, Morelli TL, **Baden AL**. IUCN Red List Reassessment, *Varecia variegata* - (Kerr, 1792).
- 2020 **Baden AL**. Madagascar's lemurs face a grim future because of human activity. A solution? Planting trees. The Washington Post. *Published online Jan 4, 2020*
- 2020 **Baden AL**. Can a conservation crisis have a silver lining? The Conversation. *Published online December 23, 2019*
- 2017 **Baden AL**. Book review: The Missing Lemur Link. *American Journal of Physical Anthropology* 163(2): 417.
- 2017 Guevara E\*, Chen-Kraus C\*, Jacobs RL, **Baden AL**. Celebrating fifty years of research at the Duke Lemur Center. *Evolutionary Anthropology* 26(2): 47-48.
- 2015 Crouse D\*, Richardson Z\*, Jain A, Tecot S, **Baden A**, Jacobs R\*. Lemur face recognition: tracking a threatened species and individuals with minimal impact. Michigan State University Technical Report MSU-CSE-15-8, May 23, 2015.
- 2014 Andriaholinirina N, **Baden A**, Blanco M, Chikhi L, Cooke A, et al. *Varecia variegata*. The IUCN Red List of Threatened Species. Version 2014.3. <[www.iucnredlist.org](http://www.iucnredlist.org)>.
- 2013 **Baden AL**. Primates: Diversity, Distribution and Evolution. *Evolutionary Anthropology* 22(6).
- 2011 **Baden AL**, Maiolino S, Holowka N, Jacobs RL. Eightieth annual meeting of the American Association of Physical Anthropologists. *Evolutionary Anthropology* 20(4): 123-125.
- 2010 **Baden AL**. A look at lemur life history: the Yale Lemur Senescence Symposium. *Evolutionary Anthropology* 19(4): 123-124.
- 2009 Fleagle JG, **Baden AL**. The evolution of human behavior. *Evolutionary Anthropology* 18(5): 163.
- 2009 **Baden AL**, Lu A, Tecot SR. 2009 Annual meeting of the American Society of Primatologists. *Evolutionary Anthropology* 18(5): 164-165.
- 2009 **Baden AL**, Gilbert CC. Physical anthropology in the Windy City. *Evolutionary Anthropology* 18(4): 123-124.
- 2007 **Baden AL**. 2007 International Prosimian Congress. *Evolutionary Anthropology* 16(6): 201-203.
- 2007 **Baden AL**. Social evolution: Mathematical models, mentors and monkeys. *Evolutionary Anthropology* 16: 159-160.
- 2007 Coleman M, **Baden AL**, Jacobs RL, Patel BA. From hobbits to giants: Blue skies prevail in stormy Philadelphia. *Evolutionary Anthropology* 16: 123-125.

*PUBLISHED ABSTRACTS (\*student co-author; \*joint senior authorship if not first or last author)*

- 2020 Batist C, **Baden AL**, Bendell F, Noromalala Eliette. Mating behavior of black-and-white ruffed lemurs (*Varecia variegata*) in Mangevo, Ranomafana National Park, Madagascar. *International Society of Primatologists*. \*presentation cancelled due to COVID-19
- 2020 **Baden AL**, Webster TH. Fission-fusion sociality shapes the gut microbiome in black-and-white ruffed lemurs (*Varecia variegata*). *American Association of Physical Anthropology*. \*presentation cancelled due to COVID-19
- 2020 Batist CH, Razafindrabe MN, Francois, **Baden AL**. Preliminary analysis of wild ruffed lemur (*Varecia variegata*) vocalizations recorded through active and passive acoustic monitoring in Ranomafana National Park, Madagascar. *American Association of Physical Anthropology*. \*presentation cancelled due to COVID-19

- 2020 Beeby N, Rothman JM, **Baden AL**. Preliminary analysis of the nutritional composition of black-and-white ruffed lemur (*Varecia variegata*) diet in Ranomafana National Park, southeastern Madagascar. *American Association of Physical Anthropology*. \*presentation cancelled due to COVID-19
- 2020 Chandrashekar A, Pacioni C, Mancini AN, Morelli TL, Louis EE, **Baden AL**. Evaluating pressures on lemur demographic histories in Ranomafana National Park, Madagascar. *American Association of Physical Anthropology*. \*presentation cancelled due to COVID-19
- 2020 Tecot SR, Birr M, **Baden AL**. Functional relationships between estradiol and paternal care in wild red-bellied lemurs. *American Association of Physical Anthropology*. \*presentation cancelled due to COVID-19
- 2020 Raboin D, **Baden AL**, Rothman J. Who cares? Identity and motivation of helpers during allomaternal care in *Colobus guereza*. *American Association of Physical Anthropology*. \*presentation cancelled due to COVID-19
- 2020 Shryer S, **Baden AL**, Tecot SR, Kamilar JM. Relationships between sex-biased dispersal and allomaternal care behaviors in 143 mammal species. *American Association of Physical Anthropology*. \*presentation cancelled due to COVID-19
- 2019 McManus N\*, Mallott EM, Johnson SE, Holmes S, Webster TH, **Baden AL**, Amato KR. The gut microbiome of *Varecia variegata* occupying disturbed forest. *American Society of Primatology*.
- 2019 Vagell R\*, Sara Matters, **Baden AL**. Do captive ruffed lemurs (*Varecia spp.*) contrafreeload or forage using optimal foraging theory? *Animal Behavior Society*.
- 2019 Noromalala Eliette\*, **Baden AL**. Parasite load fluctuation in *Varecia variegata*. *Association for Tropical Biology and Conservation*.
- 2019 Vagell R\*, Bray T, **Baden AL**. Hand preference in ruffed lemurs (*Varecia spp.*) when performing touchscreen cognitive tasks. *American Society of Primatologists*.
- 2019 Vagell R\*, Sara Matters, **Baden AL**. The joy of working: do captive ruffed lemurs (*Varecia spp.*) prefer to contrafreeload or forage using optimal foraging theory? *American Society of Primatologists*.
- 2019 Louppova A\*, Kamilar JM, **Baden AL**. Climatic variables are strong predictor of allonursing and communal nesting. *American Association of Physical Anthropology*.
- 2019 Batist CH\*, **Baden AL**. A meta-analysis of fission-fusion dynamics: towards a standardization of methods to facilitate inter- and intra-species comparisons. *American Association of Physical Anthropology*.
- 2019 Mancini AN\*, Morelli TL, Smith A, Balko EA, Borgerson C, Dolch R, Farris Z, Federman S, Holmes S, Irwin M, Jacobs R, Johnson S, King T, Lehman S, Louis E, Murphy A\*, Ratolojanahary TH, Razafindratsima O, **Baden AL**. Modeling *Varecia* current and future habitat in eastern Madagascar. *American Association of Physical Anthropology*.
- 2019 Raboin DL\*, **Baden AL**, Rothman JM. Allomaternal care by conspecifics influences activity budgets of *Colobus guereza* mothers. *American Association of Physical Anthropology*.
- 2019 **Baden AL**. Environmental, but not social cues predict nest site selection and use in a communally breeding primate. *American Association of Physical Anthropology*.
- 2018 Diakiw L\*, Tecot SR, Cassalet S\*, Chandrashekar A\*, Lamela-Lopez R\*, Mancini AN\*, Puitiza A\*, **Baden AL**. Kinship, social relationships, and the gut microbiome. *American Association of Physical Anthropology*.
- 2018 Chandrashekar A\*, Mancini AN\*, **Baden AL**. Reconstructing the demographic history of black-and-white ruffed lemurs (*Varecia variegata*) in Ranomafana National Park, Madagascar. *American Association of Physical Anthropology*.
- 2018 Raboin D\*, **Baden AL**, Rothman J. Allomaternal care by conspecifics changes activity budgets of *Colobus guereza* mothers. *American Association of Physical Anthropology*.



- 2018 **Baden AL**, Mancini AN\*, Federman S, Kamilar JM, Holmes S, Johnson SE, Louis EE Jr, Bradley BJ. Anthropogenic activities explain population genetic structure in Critically Endangered black-and-white ruffed lemurs (*Varecia variegata*). *American Association of Physical Anthropology*.
- 2017 Mancini AN\*, Chandrashekar A\*, **Baden AL**. Population genetic analysis of black-and-white ruffed lemurs (*Varecia variegata*) in Ranomafana National Park, southeastern Madagascar. *Student Conference on Conservation Science – NY*.
- 2017 Diakiw LO\*, Raulo A\*, Lane A\*, Mancini AN\*, Amato KR, Tecot SR, **Baden AL**. Determinants of the adult microbiome: kinship, dispersal, and social relationships. *American Society of Primatologists*
- 2017 **Baden AL**, Mancini AN\*, Federman S, Kamilar JM, Holmes SM\*, Johnson SE, Louis, EE Jr., Bradley BJ. Habitat degradation and proximity to villages explain genetic community structure in a Critically Endangered lemur species. *American Society of Primatologists*
- 2017 Mancini AN\*, Chandrashekar A\*, **Baden AL**. Population genetic analysis of black-and-white ruffed lemurs (*Varecia variegata*) in Ranomafana National Park, southeastern Madagascar. *American Society of Primatologists*.
- 2017 Knerim J\*, Clarke TA, La Fleur M, Cuzzo F, Lawler R, Parga J, Pastorini J, Sauter M, **Baden AL**. Using molecular techniques to determine provenance of illegal ring-tailed lemur (*Lemur catta*) pets to inform conservation actions. *American Society of Primatologists*.
- 2017 Hughes RS\*, Gilbert CC, **Baden AL**. Phylogeny versus niche differentiation in the diets of Malagasy primates. *American Society of Primatologists*.
- 2017 **Baden AL**. Characterizing non-maternal infant care in a communally breeding primate, *Varecia variegata*. *86<sup>th</sup> Meeting of the American Association of Physical Anthropologists*.
- 2016 **Baden AL**, Webster TM. A network analysis of social preferences in wild black-and-white ruffed lemurs. Joint meeting of the *American Society of Primatologists* and the *International Society of Primatologists*.
- 2016 Tecot SR<sup>‡</sup>, Costanzo J\*, Eadie E, Jacobson K\*, Hawley C\*, Razanajatovo S\*, Sánchez Arroyo A\*, **Baden AL**. Endocrine mechanisms underlying phenotypic variation in infant care in the red-bellied lemur, *Eulemur rubriventer*. Joint meeting of the *American Society of Primatologists* and the *International Society of Primatologists*.
- 2016 Zohdy S, Durden L, **Baden AL**. Ectoparasitism in black-and-white ruffed lemurs (*Varecia variegata*) in southeastern Madagascar. Joint meeting of the *American Society of Primatologists* and the *International Society of Primatologists*.
- 2016 Vagell R\*, Jacobs RL, **Baden AL**. Novel skill acquisition in ruffed lemurs (*Varecia* spp.): Preliminary Data from SMARTA Color Vision Study at Duke Lemur Center. Joint meeting of the *American Society of Primatologists* and the *International Society of Primatologists*.
- 2016 Mancini AN\*, **Baden AL**. Preliminary survey results of black-and-white ruffed lemurs (*Varecia variegata*) of the Ranomafana region, southeastern Madagascar. Joint meeting of the *American Society of Primatologists* and the *International Society of Primatologists*.
- 2016 Jacobs RL, MacFie TS, Louis EE, **Baden AL**, Mundy NI, Bradley BJ. Color vision in wild Indri shows novel variation among lemurs. Joint meeting of the *American Society of Primatologists* and the *International Society of Primatologists*.
- 2016 Costanzo J\*, **Baden AL**<sup>‡</sup>, Tecot SR<sup>‡</sup>. The relationship of estradiol to paternal care behavior in wild-living red-bellied lemurs (*Eulemur rubriventer*). *American Journal of Physical Anthropology*.

- 2016 Tecot SR, Costanzo J\*, Eadie E, Hawley C, Razanajatovo S\*, Sánchez Arroyo A\*, **Baden AL**. Profiling caregivers: hormonal variation underlying allomaternal care in wild red-bellied lemurs. *American Journal of Physical Anthropology*.
- 2016 Griffin RH\*, Gilbert CC, **Baden AL**, Fleagle JG. Primate cranial shape evolution: combining geometric morphometrics and phylogenetic comparative methods. *American Journal of Physical Anthropology*.
- 2015 Fleagle JG, Gilbert CC, **Baden AL**. Cranial diversity of mammals: past and present. *Society of Vertebrate Paleontology*.
- 2015 Vagell R\*, Vagell V, **Baden AL**. SMARTA: Subject-Mediated Automatic Remote Testing Apparatus for Color Vision Discrimination Tasks. *American Journal of Primatology*.
- 2015 **Baden AL**, Tecot SR. What facilitates facultative allomaternal care in red-bellied lemurs (*Eulemur rubriventer*)? A preliminary investigation. *American Journal of Physical Anthropology*.
- 2014 **Baden AL**, Webster T\*, Gerber B\*, Bradley BJ. Fission-fusion dynamics in wild ruffed lemurs may be driven by kinship, spatial overlap, and individual social preferences. *International Journal of Primatology*.
- 2014 Mundy NI, Morningstar C\*, **Baden A**, Fernandez-Duque E, Bradley BJ. Can colour vision re-evolve? Variation in the X-linked opsin locus of cathemeral Azara's owl monkeys (*Aotus a. azarae*). *International Journal of Primatology*.
- 2014 Tecot SR, Jacobs RL\*, **Baden AL**, Erhart E. Reproductive physiology and behavior in *Eulemur*. *International Journal of Primatology*.
- 2014 Wright PC, **Baden AL**, Larney E, Jacobs RL\*, Herrera J\*, Tecot SR, Karpanty S, Zohdy S. Long Term Research Stations Compound Scientific Value: Centre ValBio, Ranomafana National Park, Madagascar. *American Journal of Physical Anthropology*.
- 2012 **Baden AL**, Kamilar J. Quantifying fission-fusion dynamics in black-and-white ruffed lemurs (*Varecia variegata*). *International Journal of Primatology*.
- 2012 **Baden AL**, Louis EE, Bradley BJ. Molecular assessment of dispersal in black-and-white ruffed lemurs (*Varecia variegata*). *American Journal of Physical Anthropology*. 147(S54): 88.
- 2012 Tecot SR<sup>‡</sup>, **Baden AL**<sup>‡</sup>, Romine N\*, Kamilar JM. The evolution of allomaternal care in lemuriforms. *American Journal of Physical Anthropology*. 147(S54): 283.
- 2012 Fleagle JG, Gilbert CC, **Baden AL**. Primate cranial diversity: comparisons among the major primate radiations contradict larger and more general trends. *American Journal of Physical Anthropology*. 147(S54): 144.
- 2011 Holmes S\*, **Baden AL**, Brenneman RA, Engberg SA, Louis EE, Jr., Johnson SE. Population genetics of the black-and-white ruffed lemur (*Varecia variegata*) in continuous and fragmented landscapes. *Canadian Association of Physical Anthropology*. [unpublished abstract volume]
- 2011 **Baden AL**, Louis EE, Bradley BJ. Cooperation confers fitness benefits in a communally nesting primate. *American Journal of Physical Anthropology*. 144(52): 79-80.
- 2011 Jacobs RL\*, **Baden AL**, Bradley BJ. Variation in foraging behavior and color vision status in wild female black-and-white ruffed lemurs (*Varecia variegata*). *American Journal of Physical Anthropology*. 144(52): 174-175.
- 2010 Arrigo-Nelson SJ, **Baden AL**, Salisbury RL, Wright PC, McGee EM. The adaptive significance of geophagy in the Milne-Edwards' sifaka (*Propithecus edwardsi*) at Ranomafana National Park, Madagascar. *International Journal of Primatology*.
- 2010 **Baden AL**. Characterizing 'kindergartens': nest use and infant-parking strategies in *Varecia variegata*. *American Journal of Physical Anthropology*. S50:59.
- 2009 **Baden AL**. It Takes a Village: Communal infant care and socialization in wild ruffed

- lemurs (*Varecia variegata*) in southeastern Madagascar. *American Journal of Primatology*. 71(S1): 93.
- 2009 **Baden AL**, Crowley BE. Intraspecific isotopic variability in *Varecia variegata*, Ranomafana National Park. *American Journal of Physical Anthropology*. 138(S48): 81.
- 2009 Bradley BJ, MacFie T, Lawler R, Morelli TL, **Baden A**, Martin SK, Mayor MI, Kappeler PM, Louis EE, Pastorini J, Sauter ML, Wright PC, Mundy NI. Eye of the beholder: Variable color vision in wild lemur populations. *American Journal of Physical Anthropology*. 138(S48): 96-97.
- 2009 Gilbert C, **Baden A**, Fleagle J. Comparing primate crania: differences between sexes and between species. PaleoAnthropology Annual Meeting.
- 2008 Fleagle JG, Gilbert CC, **Baden AL**. The uniqueness of the human cranium and the importance of fossils. *American Journal of Physical Anthropologists*. 135(S46): 97.
- 2007 Fleagle JG, Gilbert CC, **Baden AL**. Skull variation in living primates. *Journal of Vertebrate Paleontology*. 27(3): 75A.
- 2007 **Baden AL**, Kelly S, Engberg S, Brenneman R, Louis EE. Morphometric variation in wild black-and-white ruffed lemurs (*Varecia variegata*, Kerr 1792). *2007 International Prosimian Congress*. Ithala, South Africa.
- 2007 **Baden AL**. Ranging patterns and group fluidity of black-and-white ruffed lemurs (*Varecia variegata*) at Mangevo (Ranomafana National Park, Madagascar). *American Journal of Physical Anthropologists* S44: 67.
- 2006 **Baden AL**, Wright PC, Louis EE. Genetic diversity of the black-and-white ruffed lemur (*Varecia variegata*) in Ranomafana National Park, Madagascar. NYU Center for the Study of Human Origins, Molecular Primatology Conference: Progress and Promise.
- 2006 **Baden AL**, Wright PC, Louis EE. Population density and genetic diversity of the black-and-white ruffed lemur (*Varecia variegata*) in Mangevo, Madagascar. *American Journal of Physical Anthropology*. S42:60.
- 2005 **Baden AL**, Arrigo-Nelson SJ, Wright PC. Mmmm...Dirt: Implications for geophagy by the Milne-Edwards' sifaka (*Propithecus edwardsi*) in Ranomafana National Park, Madagascar. *American Journal of Physical Anthropology* S40: 68.
- 2005 Ross CF, **Baden AL**, Georgi J, Sipla J, Wolff M. Jaw kinematics in two species of primates. *Integrative and Comparative Biology* 44:632.
- 2003 Taylor LL, **Baden AL**. Food-choice in free-ranging lemurs in Myakka City, Florida. *American Journal of Primatology* 60(S1):43.

## SPEAKING ENGAGEMENTS

- 2020 Guest Speaker | MARC Student Development Seminar | Hunter College CUNY
- 2020 Guest Speaker | Department of Evolutionary Anthropology | Duke University
- 2020 Research Seminar | Department of Anthropology | Washington University St. Louis
- 2020 Public Lecture | Conservation Conversation Series | The Living Earth Collaborative & The Academy of Science - St. Louis | St. Louis, MO
- 2019 Research Seminar | Department of Anthropology | University of Florida
- 2018 Guest Speaker | Department of Anthropology | University of San Diego
- 2017 Research Seminar | Departmental Colloquium Series | Metropolitan Center of SUNY Empire State College
- 2015 Research Seminar | Departmental Colloquium Series | The Graduate Center of CUNY
- 2015 Public Lecture | Bruce Museum - Madagascar: Ghosts of the Past | Greenwich, CT
- 2014 Research Seminar | Departmental Colloquium Series | Department of Psychology | University of Pennsylvania
- 2013 Guest Speaker | School of Anthropology | University of Arizona

- 2013 Research Seminar | Department of Anthropology | Southern Illinois University Carbondale
- 2013 Research Seminar | Department of Biology | University of Southern California
- 2013 Research Seminar | Department of Anthropology | Washington University in St. Louis
- 2013 Guest Speaker | Department of Anthropology | Yale University
- 2013 Research Seminar | Frontiers in Conservation Genetics Webinar Series | Bryn Mawr University
- 2013 Guest Speaker | Department of Biology | University of California Pennsylvania
- 2012 Research Seminar | The NYCEP New York Regional Primatology Colloquium Series | City University of New York
- 2012 Guest Speaker | Department of Anthropology | Yale University
- 2012 Public Lecture | US Embassy English Teaching Program | Antananarivo, Madagascar
- 2011 Guest Speaker | Department of Anthropology | Stony Brook University
- 2011 Biological Anthropology Colloquium Series | Department of Anthropology | Yale University
- 2010 Guest Speaker | Department of Anthropology | Yale University
- 2010 Guest Speaker | Department of Geography | University of Wisconsin-Platteville
- 2010 Research Seminar | Provost's Graduate Student Lecture Series | Stony Brook University
- 2009 Public Lecture | Party Madagascar Fundraiser | Seneca Park Zoo
- 2008 Guest Speaker | Madagascar Study Abroad Program | Stony Brook University & Centre ValBio
- 2007 Guest Speaker | Madagascar Study Abroad Program | Stony Brook University & Centre ValBio

#### **ORGANIZED SYMPOSIA AND CONFERENCES**

- 2016 2<sup>ND</sup> Annual Conference of the Northeastern Evolutionary Primatologists (Nov 4-5, 2016). Hosted by NYCEP, PMEL & Hunter College, New York, NY. Role: NEEP President, Executive Committee Member & Lead Coordinator

#### **INVITED WORKSHOPS AND SYMPOSIA PARTICIPATION**

- 2020 **Online Teaching Essentials Workshop, Participant** – Organizers: CUNY School of Professional Studies.
- 2019 **Navigating the Intercultural Landscape of Gender-Based Harassment and Assault in Fieldwork, Panelist** – Organizers: Erin Kane, Jennifer Danzy Cramer. 88<sup>th</sup> Annual Meeting of the American Association of Biological Anthropologists.
- 2017 **Adaptation: Identifying form-function relationships in the fossil record (Symposium), Participant** – Organizers: M. Macias, KL Allen. Comparing Primate Communities: Behavior and Morphology. Fleagle JG, Reed KE, Baden AL, Gilbert CC, Smaers J. 86<sup>th</sup> Annual Meeting of the American Association of Physical Anthropologists.
- 2016 **Growing up primate: diverse approaches to understanding the complex influences on primate development (Symposium), Participant** – XXVI Congress of the International Primatological Society.
- 2014 **Eulemur Variation (Symposium). XXV Congress of the International Primatological Society, Participant** – Organizers: Steig Johnson, Giuseppe Donati
- 2014 **Madagascar Fauna Group Conservation Research Workshop, Participant** – St. Louis Zoo. Organizers: Ingrid Porton, Karen Freeman.
- 2012 **Fission-fusion Symposium, Participant** – XXIV Congress of the International Primatological Society.  
Organizers: Drs. Filippo Aureli, Gabriel Ramos-Fernandez

- 2012 **IUCN SSC Primate Specialist Group Lemur Red-Listing and Conservation Planning Workshop, Participant** – Antananarivo, Madagascar (July 9-14). Reassessing the conservation status and conservation action plans for all 102 known lemur species. Organizers: Christoph Schwitzer, Joerg Ganzhorn, Jonah Ratsimbazafy, Vanessa Mass, Andrew Cooke
- 2012 **R-Villages Project, Workshop leader**, Ambalakindresy Secondary School (Madagascar), Two-day teaching workshop (June 28-29). Developed lecture materials and ran a two-day teaching workshop introducing secondary school educators to the biodiversity in Hudson River Valley, NY; Aimed to help develop a teaching curriculum encouraging the exchange of cross-cultural information in both American and Malagasy school children
- 2011 **R-Villages Project, Workshop leader**, Rhinebeck School District, Two-day teaching workshop (August 22-23). Developed lecture materials and ran a two-day teaching workshop introducing 5<sup>th</sup>- 12<sup>th</sup> grade teachers to culture, religion, politics and biodiversity in Madagascar; Aimed to help develop a teaching curriculum encouraging the exchange of cross-cultural information between both American and Malagasy school children
- 2010 **Yale University Lemur Senescence Symposium, *It takes a village: Reproductive strategies and communal infant care in ruffed lemurs (Varecia variegata)***. Organizers: Drs. Richard Bribiescas, Stephanie Anestis

## RESEARCH EXPERIENCE

### LABORATORY RESEARCH

- 2014-present **Director, Hunter Primate Molecular Ecology Laboratory**
- 2011-2013 **Molecular ecology of black-and-white ruffed lemurs**  
Yale Molecular Anthropology Lab, New Haven, CT (*Postdoctoral research*)  
Data collection & relevant skills: Population genetic and landscape genetic analyses  
Postdoctoral supervisor: Brenda Bradley
- 2005-2010 **Molecular ecology of black-and-white ruffed lemurs (Ph.D. Thesis research)**  
Center for Conservation and Research, Omaha's Henry Doorly Zoo, Omaha, NE  
Data collection & relevant skills: Extraction and amplification of DNA from blood and tissue samples; microsatellite genotyping  
Mentor: Edward E. Louis, Jr.
- 2004 **Patterns of primate chewing**  
Department of Anatomical Sciences, Stony Brook University, Stony Brook, NY  
Data collection & relevant skills: Digitized, extracted, and analyzed videofluoroscopic data gathered during chewing cycles from two species of non-human primates  
Principle Investigator: Dr. Callum Ross

### FIELD RESEARCH

- 2017-present **Ranomafana Ruffed Lemur Project**  
Mangevo, Ranomafana National Park, Madagascar  
Data collection & relevant skills: A long-term project investigating black-and-white ruffed lemur behavioral and molecular ecology, reproductive physiology, and fission-fusion dynamics.
- 2014-present **Landscape genetics of black-and-white ruffed lemurs**  
Southeastern rainforest corridor, Madagascar  
Data collection & relevant skills: Conducting rapid assessment surveys of black-and-white ruffed lemurs in Ranomafana National Park and surrounding forest fragments; collecting genetic (fecal) samples; inventorying forest structure and plant diversity via botanical plots; mapping fragment size, isolation distance, and surrounding matrix. Together, these data will be combined to run a landscape genetic analysis of black-and-white ruffed lemurs in and around RNP to evaluate the natural and

- anthropogenic barriers driving gene flow and isolation in the Ranomafana-Andringitra Corridor and identify areas in need of immediate conservation attention.
- 2013-present **Allomaternal care in red-bellied lemurs**  
 Vatoharanana, Ranomafana National Park  
 Data collection & relevant skills: Co-managing a research team of 10 Malagasy technicians and international field assistants. Collecting behavioral, genetic, and hormone data to investigate the genotype-phenotype-fitness relationships associated with allomaternal caregiving behaviors.
- 2005-2008 **Social and reproductive strategies of ruffed lemurs** (*Ph.D. Thesis research*)  
 Mangevo; Ranomafana National Park, Madagascar  
 Data collection & relevant skills: Established Mangevo bushcamp, including cutting, marking & mapping trails, establishing camp site, capturing & collaring study animals, and training local technicians. Collected genetic, hormonal and biomedical samples from ruffed lemurs during five week-long capture periods followed by systematic behavioral observations during 17 consecutive months.  
 Thesis advisor: Dr. Patricia Wright; Committee: Drs. Andreas Koenig, Carola Borries, Anthony DiFiore, Joan Silk
- 2004 **Rapid-assessment surveys of nocturnal lemur densities**  
 Vohiparara, Sakaroa, Talatakely; Ranomafana National Park, Madagascar  
 Data collection & relevant skills: Established line transects and conducted nightly surveys of nocturnal lemur densities  
 Supervisor: Dr. Patricia Wright
- 2001 **Comparative study of activity budgets between cathemeral *Eulemur rubriventer* and diurnal *Propithecus edwardsi***  
 Talatakely; Ranomafana National Park, Madagascar  
 Data collection & relevant skills: Collected systematic behavioral observations during a two-week independent study while on Study Abroad.  
 Supervisor: Dr. Christina Grassi

#### CAPTIVE RESEARCH

- 2015-present **Psychophysical experimental testing of color perception in ruffed lemurs**  
 Duke Lemur Center, Durham, North Carolina  
 Data collection & relevant skills: Involved in experimental design. Selected study subjects based on their opsin genotypes for double-blind experiments using the SMARTA device.  
 Role: Advisor to Raymond Vagell
- 2002-2003 **Foraging strategies in two species of free-ranging lemurs (*Lemur catta* and *Hapalemur griseus*)**  
 Lemur Conservation Foundation, Myakka City, Florida  
 Data collection & relevant skills: Collected systematic behavioral observations during two two-month periods for undergraduate thesis research.  
 Supervisor: Dr. Linda Taylor

#### MUSEUM RESEARCH

- 2014-2015 **Lemuriform seed dispersal**  
 American Museum of Natural History, New York, NY  
 Data collection & relevant skills: Collected caliper measurements of lemur craniomandibular morphology relevant to gape from extant specimens  
 Co-PIs: Sarah Federman (Yale), Eric Sargis (Yale), Anne Yoder (Duke), et al.
- 2010 **Diversity of fossil primate crania**  
 Museum of Palaeontology, Antananarivo, Madagascar  
 Data collection & relevant skills: Digitized subfossil lemur specimens using a 3-D digitizer

2007 Co-PIs: John Fleagle, Christopher Gilbert  
**Diversity of extant primate crania**  
 American Museum of Natural History, New York, NY  
 Data collection & relevant skills: Digitized extant specimens using a 3-D digitizer  
 Co-PIs: John Fleagle, Christopher Gilbert

**TEACHING EXPERIENCE**

*COURSES TAUGHT (2012-present)*

Summer 2021*	Study Abroad, Madagascar - Comparative Primate Ecosystems (UG/MA) - Madagascar Biodiversity, Culture, & Conservation (UG/MA)	Hunter College
Fall 2019-present	Professional Development (PhD)	The Graduate Center
Fall 2017-present	Field Methods in Primatology (Upper-level UG/MA)	Hunter College
Spring 2014-present	Primate Conservation Biology (Upper-level UG/MA)	Hunter College
Fall 2014-present	Introduction to Human Evolution (UG)	Hunter College
Spring 2014-2018	Introduction to Biological Anthropology (MA)	Hunter College
Spring 2012	Primate Behavior and Ecology (Upper-level UG/MA)	Hunter College
2012-2013	Introduction to Biological Anthropology (UG)	Southern Connecticut State University

*\*Note that the Hunter Madagascar Study Abroad originally scheduled for summer 2020 has been rescheduled for summer 2022 due to the COVID-19 outbreak*

*LAB INSTRUCTOR/TEACHING ASSISTANT (2003-2009)*

Introduction to Physical Anthropology; Primate Behavior; Lemur Socioecology; Primate Conservation; Biodiversity and Conservation in Madagascar; Comparative Ecology in Madagascar; Important Archaeological Discoveries; Ethnography of Indonesia; Sociology of Gender; Sociology of Human Reproduction

**STUDENTS ADVISED**

*UNDERGRADUATE STUDENTS*

CUNY BA for Unique & Interdisciplinary Studies

Kimberly Louisor, The Graduate Center, CUNY Major advisor, 2018-present

Field

Nicolette McManus, Environmental Science, Northwestern University (w/ K. Amato) Summer 2018

Laboratory

Daisy Oghosa Ogbeta, Hunter College	2019-2020
Alison Rameshwar, Hunter College	2019-2020
Mayar Safwat, Hunter College	2019-2020
Elizabeth Tobal, Hunter College	2019-2020
Julie Strain, Anthropology, Hunter College	2018-present
Melissa-Maria Kulaprathazhe, Hunter College	2019
Catherine Wen, Hunter College	2018
Sohail Khan, Human Biology, Hunter College	2017-2018
Max Economos, Psychology, Hunter College	2017-2018
Jesse Miller, Environmental Studies, Hunter College	2017-2018
Amanda Puitiza, Hunter Macaulay Honors College	2016-2018

*MA STUDENTS*

Sandra Almanza, Anthropology, Hunter College	Advisor (2019-present)
Julia Dickerson, Psychology – ABC, Hunter College	Advisor (2019-present)

Patricia Adamos, Psychology – ABC, Hunter College	Advisor (2018-present)
Jelisa Oliveras, City College of New York	Advisor (2018-present)
Amanda Rodriguez, Psychology – ABC, Hunter College	Advisor (2018-present)
Samantha Calkins, Psychology – ABC, Hunter College	Advisor (2018-2020)
Alexandra Louppova, Anthropology, Hunter College	Advisor (2017-2018)
Aparna Chandrashekar, Anthropology, Hunter College	Advisor (2016-2018)
Dominique Raboin, Psychology – ABC, Hunter College	Advisor (2016-2018)
Jessica Knerim, Psychology – ABC, Hunter College	Advisor (2016-2017)
Rebekka Hughes, Anthropology, Hunter College	Advisor (2015-2017)
Raymond Vagell, Psychology – ABC, Hunter College	Advisor (2014-2017)
Amanda Mancini, Anthropology, Hunter College	Advisor (2014- 2016)
Noromalala Eliette, Univ. Central Washington	Co-Advisor (2020-present)
Aura Raulo, Biosciences, University of Helsinki	Co-Advisor (2014- 2016)
Jane Dittel, Psychology – ABC, Hunter College	Second reader (2017-present)
Nicole Dono, Psychology – ABC, Hunter College	Second reader (2017-present)

#### PHD STUDENTS

Aparna Chandrashekar, The CUNY Graduate Center	Advisor (2020-present)
Faramalala Francette Volonirina, Univ. Antananarivo	Advisor (2020-present)
Nina Beeby, Anthropology, The CUNY Graduate Center	Advisor (2019-present)
Carly Batist, Anthropology, The CUNY Graduate Center	Advisor (2018-present)
Amanda Mancini, Anthropology, The CUNY Graduate Center	Advisor (2016-present)
Megan Henriquez, Anthropology, The CUNY Graduate Center	Committee Mbr (2020-present)
Fernando Mercado Malabet, Anthropology, Univ Toronto	Committee Mbr (2018-present)
Hayley Roberts, Archaeology & Anthropology, The Australian National University	Committee Mbr (2018-present)
Katarina Evans, Anthropology, The CUNY Graduate Center	Committee Mbr (2018-present)
Santiago Cassalet, Anthropology, The CUNY Graduate Center	Committee Mbr (2017-present)
Darice Westphal, Anthropology, The CUNY Graduate Center	Committee Mbr (2016-present)
Alexander Pritchard, Anthropology, Rutgers	Committee Mbr (2016-present)
Margaret Bryer, Anthropology, The CUNY Graduate Center	PhD Thesis Committee (2019)
Andrew Vanhorn, Anthropology, Temple University	PhD Thesis Committee (2019)

#### OTHER

<u>Field managers &amp; research assistants</u>	
Ford Bendell, BSc University of California, Santa Barbara	April-December 2019
Lotte van den Hout, BSc University of Auckland	July-December 2018
Giulia Rossi, MSc University of Bologna	July-December 2018
Nina Beeby, BSc University of College London	January-August 2018
Nichole Arbona, College of Veterinary Medicine, Kansas State	August 2018

#### MENTORSHIP

- Spring 2020-present **External Writing Mentor, Lemur Love Writing Fellowship Program**  
Mentoring one Malagasy writing fellow over a 6-month period toward turning their existing conservation-related dataset into a report for *Lemur News* and/or a manuscript for submission at another higher-ranked and peer reviewed journal.
- Spring 2018-present **CUNY BA Advisor, CUNY Baccalaureate for Unique and Interdisciplinary Studies**  
Mentoring undergraduate students toward earning a bachelor's degree, including developing a tailored undergraduate curriculum specific to each particular students' needs; advising the student in internship and research opportunities; and providing guidance in grant and fellowship applications in support of their research needs.
- Spring 2017-present **Research Mentor, Hunter College Undergraduate Research Fellowship**



Mentoring recipients of the Hunter College UGRI Fellowship as they conduct molecular genetic analyses in PMEL, analyze data to test their hypotheses, and summarize their results. Results generated during their internships are presented at the Hunter College Undergraduate Research Conference the following spring. Students are also encouraged to present their results at annual professional conferences. Two students have received UGRI training in PMEL to date: Ms. Amanda Puitiza, Max Economos.

2016-2017

**Research Mentor, High School Research**

Mentored one high school student, Ms. Victoria Palone, as she developed research questions, organized data from my long-term database, analyzed data to test her hypotheses, and summarized her results (summer 2016). Results generated during this time were used in her year-long research design class, with the goal of presenting her results at regional competitions including the Junior Science and Humanities Symposium and the Long Island Science and Engineering Fair. Periodic meeting throughout the 2016-2017 school year to assist with preparation for various competitions. Note: Victoria has gone on to pursue a BSc at Vassar College, and has since received training in molecular methods in my PMEL (see below).

2015-present

**Research Mentor, PMEL Internships and/or Independent Study**

To date, I have trained 29 graduate and undergraduate students in molecular methods in PMEL, including extraction, quantitation/qPCR, PCR amplification, and analysis. Doctoral students trained in the lab: Laura Diakiw (2015), Alexander Pritchard (2016), Raquel Lamela-Lopez (2015-2017), Santiago Cassalett (2016-2017), Amanda Mancini (2015-present), Fernando Mercado Malabet (2019-present), Hayley Roberts (2020-present). Master's students: Christian Gagnon (2015), Raymond Vagell (2016), Jess Knierim (2017), Aparna Chandrashekar (2016-2019), Dominique Raboin (2017-2019), Sateesh Venkatesh (2017-2019), Sam Calkins (2018-present), Sandra Almanza (2019-present). Undergraduate students: Amanda Puitiza (2016-2018), Max Economos (2016-2017), Sohail Khan (2017-2018), Jesse Miller (2017-2018), Catherine Wen (2018), Julie Strain (2018-2019), Victoria Palone (2019), Kimberly Louisor (2019), Victoria Palone (2019), Daisy Oghosa Ogbeta (2019-present), Mayar Safwat (2019-present), Melissa-Maria Kulaprazhazhe (2019), Daisy Oghosa Ogbeta (2019-present), and Alison Rameshwar (2019-present).

2010

**Research Mentor, High School Summer Research, Stony Brook University**

Mentored three high school students while they developed, conducted, analyzed and presented independent research at the Long Island Science and Engineering Fair and the Intel Competition. Two students earned an LISC Achievement Award for presentations resulting from their internship.

2008-2009

**Research Mentor, Undergraduate Honors Thesis, Stony Brook University**

Mentored Lyudmila Dekovitch during data entry, analysis, and presentation. Honors thesis: "Determining strength of association within a fission-fusion community."

2005-2008

**Field Research Mentor, Stony Brook University Study Abroad Program**

Hosted and mentored a total of six undergraduate students at Mangevo bushcamp (Ranomafana National Park) during their independent research projects (up to two weeks in the field)

2005-2008

**Field Research Mentor, Independent Study**

Hosted and mentored a total of two undergraduate students and one high school student at Mangevo bushcamp (Ranomafana National Park) during their independent research projects (up to one month in the field)

**CONTINUING EDUCATION & PEDAGOGICAL TRAINING**

2017

Mentoring and Professional Development Workshop, Santa Clara University, Sponsored by the Association for Women in Science and the AAPA Committee on Diversity

## PROFESSIONAL SERVICE

- 2020-present **Executive Board**, CVB Long Term Database
- 2019-present **Scientific Advisor**, Madagascar Flora and Fauna Group – *Varecia* translocation project (Contact: Ingrid Porton)
- 2019-present **Steering Committee Member**, Biological Anthropology Women’s Mentoring Network (BAWMN)
- 2018-present **Committee Member**, AAPA Student Presentation Prize Judging Committee
- 2017-present **Member**, IUCN SSC Primate Specialist Group, Madagascar Section
- 2017-present **Expert Contributor**, **Madagascar Lemurs Portal**, IUCN, Wildlife Conservation Society, GERP, and FAPBM
- 2015-present **President**, Northeastern Evolutionary Primatology group (NEEP)
- 2008-present **Scientific Advisor**, Mangevo bush camp, Centre ValBio
- 2016-2020 **Conservation Committee Member**, American Society of Primatology
- 2014-2015 **Secretary**, Northeastern Evolutionary Primatology group (NEEP)
- 2012 **Editorial Assistant**, Primate Adaptation and Evolution, 3<sup>rd</sup> Edition, Author: Dr. John G. Fleagle
- 2010 **Editorial Assistant**, Madagascar: The Forest of Our Ancestors, Authors: Dr. Patricia C. Wright, Cyril Girard
- 2009-2011 **Editorial Assistant**, Evolutionary Anthropology (Journal), Editor: Dr. John G. Fleagle
- 2009-2011 **Long Island Science and Engineering Fair**, First Round Judge
- 2009-2011 **President**, Behavioral Ecology Group, Stony Brook University
- 2008-2009 **Secretary**, Behavioral Ecology Group, Stony Brook University
- 2006-2007 **Vice President**, Behavioral Ecology Group, Stony Brook University
- 2005-2006 **Secretary**, Behavioral Ecology Group, Stony Brook University
- 2003 **NGO Project Assistant**, Institute for the Conservation of Tropical Environments (ICTE), Stony Brook University

## COLLEGE & ACADEMIC SERVICE

- 2020-present **Member**, **Women in Science at Hunter (WIS@H)**, Hunter College
- 2020-present **Committee Member**, **Diversity & Inclusion Committee**, New York Consortium in Evolutionary Primatology (NYCEP)
- 2019-present **Committee Member**, **Fulbright Faculty Committee**, Hunter College, Office of Prestigious Scholarships and Fellowships
- 2018-present **Reviewer**, **Anthropology, Classics, Linguistics, Philosophy panel**, PSC CUNY Research & Awards Program
- 2018-present **Advisory Board Member**, **Quantitative Research Consulting Center (QRCC)**, The Graduate Center of City University of New York
- 2018-present **Committee Member**, **Undergraduate Anthropology Curriculum Committee**, Hunter College
- 2017-present **Committee Member**, **Senate Master Plan Committee**, Hunter College
- 2017-present **Faculty Sponsor**, **Undergraduate Anthropology Club**, Hunter College
- 2016-present **Undergraduate Advisor**, Department of Anthropology, Hunter College
- 2019 **Social Sciences Librarian Search Committee**, Hunter College
- 2019 **Student Prize Judge**, **STEM Student Research Conference**, Hunter College
- 2017-2019 **Faculty Sponsor**, **Graduate Women in Science Club (GWSC)**, Hunter College
- 2017-2018 **Committee Member**, **Website Migration Committee**, Hunter College
- 2017-2018 **Course design**, **Madagascar Study Abroad**. Department of Anthropology, Hunter College. Designed a new 6-credit upper-level cross-listed undergraduate/ graduate program in Madagascar. Approved as of September 2018. First offered July 2019.
- 2016-2017 **Course design**, **Field Methods in Primatology**. Department of Anthropology, Hunter College. Designed and implemented a new upper-level cross-listed undergraduate/ graduate seminar course.

2014-2018 **Library liason**, Department of Anthropology, Hunter College  
2014-2018 **Webmaster**, Department of Anthropology, Hunter College  
2009 **Teaching Assistant Committee Member**, Anthropological Sciences, Stony Brook University  
2008-2009 **Admissions Committee Member**, Anthropological Sciences, Stony Brook University  
2006-2007 **Executive Committee Member**, Anthropological Sciences, Stony Brook University

**Grant proposal ad hoc reviewer:**

National Science Foundation, The Leakey Foundation, American Society of Primatologists, Primate Conservation, Inc.

**Manuscript ad hoc reviewer** (see [publons.com/a/1246875/](https://publons.com/a/1246875/) for details):

*American Journal of Physical Anthropology; American Journal of Primatology; Animal Behaviour; Behavioral Ecology and Sociobiology; Biological Conservation; Ethology, Ecology, and Evolution; Evolutionary Anthropology; Folia Primatologica; International Journal of Primatology; Journal of Human Evolution; Lemur News; Malagasy Nature; Oryx; Physiology and Behavior; PLOS ONE*

**PROFESSIONAL MEMBERSHIPS**

American Association of Physical (Biological) Anthropologists; American Society of Primatologists; International Primatological Society; Association for Tropical Biology and Conservation

**DOCUMENTARY FILM CONSULTING**

2012 **Scientific Consultant**, IMAX, Island of Lemurs: Madagascar, Producer: Drew Fellman

**MEDIA COVERAGE (SELECTED)**

2019 Morelli et al. 2019 *Nature Climate Change*

- "Climate change and deforestation could wipe out Madagascar's ruffed lemurs and rainforest in next 50 years, experts warn." – Kashmira Gander, Newsweek, Dec 23
- "Madagascar's famous lemurs could lose their rainforest by 2080." – Erica Tennenhouse, National Geographic, Dec 23
- "Madagascar's iconic ruffed lemurs could lose up to 93 percent of their habitat by 2070 due to climate change and deforestation." Ian Randall, Daily Mail, Dec 23
- "Climate change may be the death knell for Madagascar's lemurs." France 24, Dec 23.

2017 Crowley et al. 2017. *Wildlife Society Bulletin* 41:743-751.

- "Hope for goshawks: novel method of tracking predators could help steer conservation for threatened species in Madagascar." – Michael Miller, UC Magazine, Dec 11

2017 Raulo et al. 2017 *The Journal of Animal Ecology* DOI: 10.1111/1365-2656.12781

- "Adorable, cuddling lemurs show cooties are good for our health." – David Nield, *Science Alert*, Dec 9
- "Cuddling up may keep red-bellied lemurs healthy." – Claire Maldarelli, *Popular Science*, Dec 6
- "Lemurs maintain gut health through 'huddling' together." – Sabrina Weiss, *Science Daily*, Dec 5
- "Lemurs share gut bacteria through huddling, which might improve immunity." – Rachel Baxter, *IFLS*, Dec 5

2017 Featured in "CUNY and the Animal Kingdom" episode of CUNY TV's "Study With the Best" TV series, First aired May 18, 2017. YouTube link: <https://youtu.be/I9AHMFPDm1Y>

2017 Crouse et al. 2017 *BMC Zoology* DOI: 10.1186/s40850-016-0011-9

- "What? You can't tell two lemurs apart? Computers can." – Megan Molteni, *Wired*, February 23
  - "How Do You Pick a Lemur Out of a Lineup? This Software Makes the Leap" – Aaron Sidder, *Smithsonian Magazine*, February 22
  - "Lemur facial recognition tool developed" – *BBC News*, February 21
  - "Spot the Lemur! Researchers reveal facial recognition developed for criminals is being used to spot endangered species." – Cecile Borkhataria, *Daily Mail*, February 20
  - "Facial Recognition Software: The Next Big Thing in Species Conservation?" – Carl Engelkin, *Discover Magazine*, February 17
- 2016 Federman et al. 2016 *Proceedings of the National Academy of Sciences* 113: 5041-5046.
- "Lemur Extinctions Are Harmful to Madagascar's Plant Life, Too" – Ker Than, *Smithsonian Magazine*, April 11
  - "Lemur extinctions in Madagascar leave behind doomed orphan trees" –Fred Pearce, *New Scientist*, April 11
- 2013 Baden et al. 2013 *Behavioral Ecology and Sociobiology*. 67: 1939-1950.
- "The evolution of day care – in lemurs" Carolyn Johnson, *The Boston Globe*, August 6
  - "In the lemurs' crib" *Süddeutsche Zeitung* (Germany's largest daily newspaper)
  - "Lemur with its own nursery: the black-and-white ruffed lemur serves to share custody of the kids" – Asle Ronning, *VG* (Norway's largest media organization)
  - "Lemur mothers share parenting responsibilities" – Payal Marathe, *Yale News*, Sept. 13
  - "Adorable lemur babies fare better if they go to kindergarten," – Shaunacy Ferro, *Popular Science*, August 8
  - "Nursery nests' are better for survival of young black-and-white ruffed lemurs" – *Science Daily*, August 6
  - "The evolution of cooperation: communal nests are best for ruffed lemurs" – Claire Salisbury, *Mongabay Environmental News and Information*, August 2