

# CURRICULUM VITAE

## RICHARD ROBERTS LAWLER

Professor  
Department of Sociology and Anthropology  
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### APPOINTMENTS:

#### *Present:*

Professor (2022-present) Department of Soc/Anth, James Madison University  
Graduate faculty in Biology (2010-present) Department of Biology, James Madison University

#### *Past:*

Guest Investigator (2005-2017) Biology Department, Woods Hole Oceanographic Institution  
Research Affiliate (2014-2015) Liverpool John Moores University, Liverpool UK  
Associate Professor (2012-2022) Department of Soc/Anth, James Madison University  
Assistant Professor (2009-2012) Department of Soc/Anth, James Madison University  
Assistant Professor (2004-2009) Department of Anthropology, Boston University  
Postdoctoral Fellow (2003-2005) Biology Department, Woods Hole Oceanographic Institution

### EDUCATION:

2004 Postdoctoral Researcher. Woods Hole Oceanographic Institution (Biology Department)  
2003 Ph.D. Yale University (Department of Anthropology)  
2000 M. Phil. Yale University (Department of Anthropology)  
1999 M.A. Southern Illinois University (Department of Anthropology)  
1992 B.A. University of Illinois, Urbana-Champaign (Department of Anthropology)

### REFEREED PUBLICATIONS:

Guevara EE, Goplan S, Massey D, Adegboyega M, Zhou W, Solis A, Anaya A, Churchill SE, Feldblum J, Lawler RR (submitted) Getting it right: Teaching undergraduate biology to undermine racial essentialism. Biol Meth Prot.

Palkovitz RE, Lawler RR (submitted) Developing evolutionary anthropology in local ecosystems. Evolutionary Anthropology

- Guevara EE, Grebe NM, Lawler RR, Crowley A, Lo S, Paietta E, Huebner JL, Kraus VB, Drea CM (submitted) Oxidative stress and inflammation with aging in lemurs. *Journal of Comparative Physiology B*
- Chen-Kraus C, Raharinoro NA, Lawler RR, Richard AF. (2022) Terrestrial tree hugging in a primarily arboreal lemur: A risky but effective thermoregulatory strategy. *International Journal of Primatology*. <https://doi.org/10.1007/s10764-022-00328-5>
- Campos FA, Altmann J, Cords M, Fedigan LM, Lawler RR, Lonsdorf EV, Stoinski TS, Strier KB, Bronikowski AM, Pusey AE, Alberts SC. (2022) Female reproductive aging in seven primate species: Patterns and consequences. *Proceedings of the National Academy of Sciences, USA*. Vol. 119 No. 20 e2117669119
- Sullivan AP, Godfrey LR, Lawler RR, Randrianatoandro H, Eccles L, Culleton B, Ryan TM, Perry GH (2022). Potential evolutionary body size reduction in a Malagasy primate (*Propithecus verreauxi*) in response to human size-selective hunting pressure. *American Journal of Physical Anthropology*. <https://doi.org/10.1002/ajpa.24470>
- Guevara EE, Ranaivonasy J, Richard AF, Ratsirarson J, Lawler RR, Bradley BJ (accepted w/revision) Preliminary characterization of the oral microbiomes of a wild lemur, *Propithecus verreauxi*. *Folia Primatologica*.
- Webster TH, Guevara EE, Lawler RR, Bradley BJ (accepted w/revision) Successful exome capture and sequencing in lemurs using human baits. *American Journal of Physical Anthropology*.
- Chen-Kraus C, NA Raharinoro, MA Randrianirinarisoa, DJ Anderson, RR Lawler, DP Watts, AF Richard. Human-lemur coexistence in a multiple-use landscape (2022) *Frontiers in Ecology and Evolution*. doi: 10.3389/fevo.2022.779861
- Guevara EE, Greene LK, Farmer C, Ranaivonasy J, Ratsirarson J, Mahefarisoa KL, Rajoanarivelo T, Rakotondrainibe HH, Junge RE, Williams CV, Lawler RR, Bradley BJ, Yoder AD (2021) Convergent evolution without duplication of the *RNASE1* gene in folivorous lemurs. *Frontiers in Ecology and Evolution*. (9:736741) p. 1-14.
- Colchero F, Aburto JM, Archie EA, Boesch C, Breuer T, Campos FA, Collins A, Conde DA, Cords M, Crockford C, Emery Thompson M, Fedigan LM, Fichtel C, Groenenberg M, Hobaiter C, Kappeler PM, Lawler RR, Lewis RJ, Machanda Z, Manguette ML, Muller MN, Packer C, Parnell RJ, Perry S, Pusey AE, Robbins MM, Seyfarth R, Silk JB, Staerk J, Stoinski TS, Stokes EJ, Strier KB, Strum SC, Tung J, Wittig RM, Wrangham R, Vaupel JW, Zuberbuler K, Alberts SC (2021) The evolutionary landscape of primate longevity. *Nature Communications*. 12: 3666 p.1-10.
- Guevara EE, Webster TH, Lawler RR, Bradley BJ, Greene LK, Ranaivonasy J, Ratsirarson J, Harris RA, Liu Y, Murali SC, Raveendran M, Hughes DST, Muzny DM, Yoder AD, Worley CK, Rogers J. (2021) Comparative genomic analysis of sifakas (*Propithecus*) reveals

selection for folivory and high heterozygosity despite population declines. *Science Advances*. DOI: 10.1126/sciadv.abd2274

Zipple MN, Altmann J, Campos FA, Cords M, Fedigan LM, Lawler RR, Lonsdorf EV, Perry S, Pusey AE, Stoinski TS, Strier KB, Alberts SC. Beyond orphaned infants: Novel effects of maternal death in wild primates (2021) *Proceedings of the National Academy of Sciences, USA*. 118: e2015317118, <https://doi.org/10.1073/pnas.2015317118>

Guevara EE, Lawler RR, Staes N, White CM, Sherwood CC, Ely JJ, Hopkins WD, Bradley BJ (2020) Age-associated epigenetic changes in chimpanzees and humans. Invited paper, special issue on primate aging. *Philosophical Transactions of the Royal Society B* 375: 20190616

Chandrashekar A, Knierim, J, Khan S, Raboin D, Sateesh V, Clarke T, Cuozzo F, LeFleur M, Lawler RR, Parga J, Rasamimanana H, Reuter K, Sauther M, Baden A (2020) Genetic population structure of endangered ring-railed lemurs (*Lemur catta*) from nine sites in southern Madagascar. *Ecology and Evolution* 10: 8030-8043

Guevara EE, Lawler RR (2018) Epigenetic Clocks. *Evolutionary Anthropology*. <https://doi.org/10.1002/evan.21745>

Lawler RR (2018) Emerging and enduring issues in primate conservation genetics. *Annual Reviews of Anthropology*. Vol. 47: 395-415.

Guevara EE, Ranaivonasy J, Richard AF, Ratsirarson J, Lawler RR, Bradley BJ (2017) A simple, economical protocol for DNA extraction and amplification where there is no lab. *Conservation Genetic Resources* 1-7

Kappeler PM, Cuozzo FP, Fichtel C, Ganzhorn JU, Gursky-Doyen S, Irwin M, Ichino S, Lawler RR, Nekaris K A-I, Ramanamanjato J-B, Radespiel U, Sauther ML, Wright PC, Zimmermann E. (2017) Long-term field studies of Lemurs, Lorises, and Tarsiers. Special Issue *Journal of Mammalogy* 98: 661-669

Jacobs RL, MacFie TS, Spriggs A, Baden AL, Morelli TL, Irwin MT, Lawler RR, Kappeler PM, Wright PC, Louis Jr. EE, Mundy NI, Bradley BJ. (2017). Novel and highly polymorphic vision in the diurnal, largest-bodied lemurs. *Biology Letters* 13: 20170050

Bradley BJ, Snowdon CT, McGrew WC, Lawler RR, McIntosh A, O'Connor T (2016) Non-human primates avoid the detrimental effects of prenatal androgen exposure in mixed-sex litters. *American Journal of Primatology*. 78: 1304-1315.

Jacobs RL, Spriggs A, MacFie TS, Baden AL, Irwin MT, Wright PC, Louis Jr. EE, 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* 57: 541-547.

- Parga JA, Sauther ML, Cuozzo FP, Ibrahim Antho Youssef Jacky, Lawler RR, Sussman RW, Gould L, Pastorini J. (2016) Paternity in wild ring-tailed lemurs (*Lemur catta*): Implications for male mating strategies. *American Journal of Primatology*. 78: 1316-1325
- Parga JA, Sauther ML, Cuozzo FP, Ibrahim Antho Youssef Jacky, Gould L, Sussman RW, Lawler RR, Pastorini J. (2015). Genetic evidence for male and female dispersal in wild *Lemur catta*. *Folia Primatologica*. 1-2: 66-75
- Linder JM, Lawler RR (2012) Model selection, zero-inflated models, and predictors of primate abundance in Cameroon. *American Journal of Physical Anthropology* 149: 417-425.
- Parga JA, Sauther ML, Cuozzo FP, Youssef Jacky IA, Lawler RR (2012) Genetic evidence for a population bottleneck in wild ring-tailed lemurs (*Lemur catta*) from southwestern Madagascar. *American Journal of Physical Anthropology*. 147: 21-29
- Lawler RR (2011) Demographic concepts and research pertaining to the study of wild primate populations. *Yearbook of Physical Anthropology* 53: 63-85.
- Bradley BJ, Lawler RR (2011) Linking genotypes, phenotypes and fitness in wild primate populations. *Evolutionary Anthropology* 20: 109-114.
- Lawler RR (2011) Feeding competition, cooperation, and the causes of primate sociality: A comment on Sussman et al. *American Journal of Primatology* 73: 84-90.
- Lawler RR (2011) Historical demography of a wild lemur population (*Propithecus verreauxi*) in southwest Madagascar. *Population Ecology* 53: 229-240.
- Lawler RR, Blomquist GE (2010) Multivariate selection theory in primatology: An introduction to the concepts and literature. *Open Anthropology Journal* 3: 206-229
- Lawler RR, (2009) Monogamy, monomorphism, and mechanisms of sexual dimorphism. *Journal of Human Evolution* 57: 321-325.
- Lawler RR, Richard AF, Dewar RE, Schwartz M, Ratsirarson J, Caswell H (2009) Demography of a wild lemur population in a stochastic rainfall environment. *Oecologia* 161: 491-504.
- Lawler RR (2008) Testing for a historical population bottleneck in wild Verreaux's sifaka (*Propithecus verreauxi verreauxi*) using microsatellite data. *American Journal of Primatology*. 70: 990-994.
- Lawler RR (2008) Morphological integration and natural selection in the postcranium of wild sifaka. *American Journal of Physical Anthropology*. 136: 204-213.
- Cuozzo FP, Sauther ML, Yamashita N, Lawler RR, et al. (2008) A comparison of salivary pH in sympatric lemur species (*Lemur catta* and *Propithecus verreauxi*) at Bezà Mahafaly Special

Reserve, Madagascar: Investigating feeding ecology, dietary chemicals, and primate tooth wear. *American Journal of Primatology* 70: 363-371.

Lawler RR (2007) Fitness and extra-group reproduction in male Verreaux's sifaka (*Propithecus verreauxi verreauxi*). *American Journal of Physical Anthropology* 132: 267-277

Lawler RR (2006) Sifaka positional behavior: Ontogenetic and quantitative genetic approaches. *American Journal of Physical Anthropology*. 131:261-271

Lawler RR, Ford SM, Wright PC, Easley SP (2006) Locomotor behavior of *Callicebus brunneus* and *Callicebus torquatus*. *Folia Primatologica*. 77:228-239

Lawler RR, Richard AF, Riley MA (2005) Intrasexual selection in Verreaux's sifaka (*Propithecus verreauxi verreauxi*). *Journal of Human Evolution*. 48: 259-277

Lawler RR, Richard AF, Riley MA (2003) Genetic population structure of the white sifaka (*Propithecus verreauxi verreauxi*) in southwest Madagascar. *Molecular Ecology* 12: 2307-2317.

Lawler RR, Stamps C (2002) The relationship between tail use and positional behavior in *Alouatta palliata*. *Primates*. 42:147-152

Lawler RR, Richard AF, Riley MA (2001) Isolation and screening of microsatellite loci in a wild lemur population (*Propithecus verreauxi verreauxi*). *American Journal of Primatology*. 55: 253-259.

## **BOOK CHAPTERS AND OTHER PUBLICATIONS:**

Lawler RR, Richard AF (2022) *Propithecus*, sifakas. *The New Natural History of Madagascar*. SM Goodman, JP Benstead (eds.). Princeton University Press: Princeton.

Lawler RR (2018) Population dynamics. *The International Encyclopedia of Biological Anthropology*. W. Trevathan (ed.). John Wiley and Sons, Inc.

Lawler RR (2017) Genetic distance. *Encyclopedia of Primatology*. A. Fuentes et al. (eds.). Wiley Blackwell Press.

Lawler RR (2017) Genetic drift. *Encyclopedia of Primatology*. A. Fuentes et al. (eds.). New York, Wiley Blackwell Press.

Sussman RW, Richard AF, Ratsirarson J, Sauther ML, Brockman DK, Lawler RR, Cuozzo FP (2012) Bezà Mahafaly Special Reserve: A research site in southwestern Madagascar. *Long-term Field Studies of Primates*. PM Kappeler, DP Watts, editors. Berlin, Springer Verlag. pp 45-66.

- DiFiore T, Lawler RR, Gagneaux P (2011) Molecular primatology. In: CJ Campbell, A Fuentes, KC MacKinnon, M Panger, SK Bearder (eds.) *Primates in Perspective (2/e)* Oxford, Oxford University Press. pp 390-416.
- Wunderlich RE, Lawler RR, Williams AE (2011) Field and experimental approaches to the study of locomotor ontogeny in *Propithecus verreauxi*. In: *Studying Primate Locomotion: Linking in situ and ex situ Research*. New York, Springer Verlag.
- Lewis RJ, Lawler RR (2011) *Propithecus verreauxi*. Entry for "All the World's Primates, second edition." Noel Rowe (author/editor). Pogonias Press.
- Lawler RR (2004) Review of *Primate Life Histories and Socioecology*, PM Kappeler, ME Pereira (eds.). *American Journal of Physical Anthropology*. 125:97-98.
- Lawler RR (2003) Causes and Consequences of Differential Male Reproductive Success in Male white sifaka (*Propithecus verreauxi verreauxi*). Ph.D. thesis, Yale University. 129 pp.
- Lawler RR (1998) The positional behavior of *Callicebus moloch* (= *C. brunneus*) with a comparison to *C. torquatus*. M.A. Thesis. Southern Illinois 153 pp.
- Lawler RR (1990) Sitings and Sightings: Review of *The Sacred Geography of the American Mound Builders* and *Dossier X: Les hominids non identifiés des forêts d'Afrique*. *Continuum* 1(1):188-190

## **PUBLISHED ABSTRACTS AND MEETING PRESENTATIONS:**

### *American Association of Physical Anthropologists:*

- Wunderlich RE, Lemelin P, Lawler RR (submitted) Size and scaling in Indriid Biology. *American Journal of Biological Anthropology*. 77:
- Lawler RR (submitted) A demographic analysis of transient dynamics in a wild population of white sifaka (*Propithecus verreauxi*) at Beza Mahafaly Special Reserve, southwest Madagascar. *American Journal of Biological Anthropology*. 77:
- Wunderlich RE, Heslep N, Rahorinoro NA, Niculescu N, Lawler RR (2023) Factors influencing locomotion and mechanical energetics in growing wild sifaka (*Propithecus verreauxi*). *American Journal of Biological Anthropology*. 75:
- Bell RB, Lawler RR, Ratsirarson J, Rainaivonasy J, LeDuc R, Kamilar JM (2022) The hair microbiome of wild lemurs: Functional insights from shotgun metagenomics. *American Journal of Biological Anthropology*. 73: 13
- Bell RB, Lawler RR, Ratsirarson J, Rainaivonasy J, Kamilar JM (2021) Characterizing wild lemur microbiomes across multiple body regions in southwest Madagascar. *American Journal of Physical Anthropology*. 71: 9

- Lawler RR, Brockman DK, Ranaivonasy J, Ratsirarson J, Sargis EJ, White RD, Richard AF (2020) The Yale Peabody Museum sifaka database: A resource for teaching and research. *American Journal of Physical Anthropology*. 69: 160
- Chen-Kraus C, Guevara EE, Raharinoro NA, Lawler RR, Bradley BJ (2020) Preliminary evidence for distance and landcover influences on genetic differentiation among endangered lemur populations. *American Journal of Physical Anthropology*. 69: 49
- Parga JA, Sauter ML, Cuzzo FP, Lawler RR, Gould L, Pastorini J (2020) A genetic analysis of male reproductive skew among ring-tailed lemurs (*Lemur catta*) from Bezà Mahafaly, Madagascar. *American Journal of Physical Anthropology*. 69: 215
- Guevara EE, Webster TH, Lawler RR, Bradley BJ, Ranaivonasy J, Ratsirarson J, Harris RA, Liu Y, Murali SC, Raveendran M, Hughes DST, Muzny DM, Yoder AD, Worley CK, Rogers J. (2020) Pervasive genomic evidence for adaptation to a leaf-based diet in sifakas (genus *Propithecus*). *American Journal of Physical Anthropology*. 69: 113
- Chen-Kraus C, Raharinoro NA, Lawler RR, Richard AF. (2019) Terrestrial tree hugging in a primarily arboreal lemur: A risky but effective thermoregulatory strategy. *American Journal of Physical Anthropology*. 68: 40
- Guevara EE, Lawler RR, Staes N, White CM, Sherwood C, Ely JJ, Hopkins WD, Bradley BJ. (2019) The rate and pattern of age-associated epigenetic change in chimpanzees and humans. *American Journal of Physical Anthropology*. 68: 94
- Guevara EE, Webster TH, Ranaivonasy J, Ratsirarson J, Lawler RR, Bradley BJ, Harris RA, Liu Y, Murali SC, Raveendran M, Hughes DST, Yoder AD, Worley KC, Rogers J. (2018) Evolutionary genomics of Verreaux's sifaka (*Propithecus verreauxi*). *American Journal of Physical Anthropology*. 66: 108
- Sullivan AP, Godfrey LR, Lawler RR, Ryan T, Perry G (2017) Are jumping tree animals getting smaller over time because humans ate the larger ones? *American Journal of Physical Anthropology*. 64: 374
- Jacobs JL, MacFie TS, Kamilar JM, Spriggs AN, Baden AL, Morelli TL, Irwin MT, Lawler RR, Pastorini J, Mayor M, Sauter ML, Lei R, Culligan R, Hawkins MTR, Kappeler PM, Wright P, Louis EE Jr, Mundy NI, Bradley BJ (2017) Variation in lemur color vision across species, populations, and habitats: Implications for signal evolution. *American Journal of Physical Anthropology*. 64: 229
- Lawler RR, Ratsirarson J, Ranaivonasy J (2016) Phenotypic constraints on life cycle evolution in wild Verreaux's sifaka (*Propithecus verreauxi*). *American Journal of Physical Anthropology*. 62: 203

- Guevara EE, Lawler RR, Richard AF, Ratsirarson J, Ranaivonasy J, Bradley BJ (2016) A simple, economical protocol for DNA extraction and amplification where there is no lab. *American Journal of Physical Anthropology*. 62: 163-164
- Lawler RR (2014) An analysis of fitness and fitness components in a wild population of Verreaux's sifaka. *American Journal of Physical Anthropology*. 56: 165-166
- Parga JA, Sauter ML, Pastorini J, Cuzzo FP, Yousouf Jacky IA, Sussman RW, Gould L, Lawler RR (2014) Paternity among ring-tailed lemurs from southwestern Madagascar. *American Journal of Physical Anthropology*. 56: 204
- Webster TH, Lawler RR, Bradley BJ (2014) Gene loss and protein evolution in *Propithecus verreauxi* detected using *de novo* exome sequencing and assembly. *American Journal of Physical Anthropology*. 56: 269
- Lawler RR, Linder JM (2012) Model selection, zero-inflated models, and predictors of primate abundance in Cameroon. *American Journal of Physical Anthropology* 54: 189
- Lawler RR (2011) The influence of anthropogenic and climatic factors on life history evolution in wild Verreaux's sifaka. *American Journal of Physical Anthropology* 52: 195
- Wolf SA, Lawler RR, Wunderlich RE (2011) Ontogeny of limb growth and locomotor behavior in *Lemur catta* and *Propithecus verreauxi*. *American Journal of Physical Anthropology* 52: 314
- Bradley BJ, McGrew WC, Snodon CT, Lawler RR, Macintosh A (2011) Examining potential effects of prenatal androgen exposure in mixed-sex litters of non-human primates. *American Journal of Physical Anthropology* 52: 95
- Lawler RR, Wunderlich RE (2010) The ontogenetic covariance structure of limb elements in sifaka. *American Journal of Physical Anthropology*. Suppl 50: 152. Invited symposium
- Lawler RR. (2009) Comparing patterns of natural selection on life history traits in humans and lemurs. *Suppl 48: 262-263*. Invited symposium.
- Bradley BJ, MacFie T, Lawler RR, et al. (2009) Eye of the beholder: Variable color vision in wild lemur populations. *American Journal of Physical Anthropology*. *Suppl: 48: 138*.
- Lawler RR, Parga JA (2008) Testing for historical population bottlenecks in a wild lemur population (*Propithecus verreauxi verreauxi*). *American Journal of Physical Anthropology*. *Suppl 46: 137*.
- Wunderlich RE, Lawler RR (2008) Functional models of morphological integration in *Propithecus verreauxi verreauxi*. *American Journal of Physical Anthropology*. *Suppl 46: 225-226*.



Guillot DM, Lawler RR, MacLachy LM (2007) Patterns of positional behavior among atelines: a comparative analysis of *Alouatta seniculus*, *Lagothrix lagotricha*, and *Ateles belzebuth* in Ecuador. *American Journal of Physical Anthropology*. Suppl. 44: 121.

CuozzoFP, SautherML, Lawler RR, Yamashita N, Scott JR, Ratsirarson J, Weber M (2007) A comparison of salivary pH in sympatric lemur species (*Lemur catta* and *Propithecus verreauxi*) at Bezà Mahafaly Special Reserve, Madagascar: Investigating feeding ecology, dietary chemicals, and primate tooth wear. *American Journal of Physical Anthropology* Suppl. 44: 94.

Lawler RR, Caswell H (2007) Calculating the stochastic growth rate in a wild population of lemurs using long-term rainfall data. *American Journal of Physical Anthropology*. Suppl. 44: 151.

Lawler RR, Caswell H (2006) Conservation biology of wild Verreaux's sifaka: Prospective and retrospective perturbation analyses. *American Journal of Physical Anthropology*. Suppl 42:119

Lawler RR, Richard AF, Dewar RE, Hunter CM, Caswell H (2005) Demographic analysis of a wild lemur population. *American Journal of Physical Anthropology* Suppl 40: 135-136

Lawler RR (2004) Sifaka positional behavior: Ontogenetic and quantitative genetic approaches. *American Journal of Physical Anthropology*. Suppl. 34: 133.

Lawler RR, Richard AF, Riley MA (2003) Spatial and temporal aspects of population structure in a wild lemur population, the white sifaka. *American Journal of Physical Anthropology*. Suppl. 33: 136.

Lawler RR, Richard AF, Riley MA. (2001) The relationship between genetic and demographic structure in a wild lemur population (*Propithecus verreauxi*). *American Journal of Physical Anthropology* Suppl. 31: 96

Davis LC, Lawler RR, Wright PC, Ford SM, and Easley SP (1997) Anatomical correlates of positional behavior in two species of *Callicebus*. *American Journal of Physical Anthropology*. Suppl. 24: 54.

Lawler RR, Wright PC, and Ford SM (1996) Positional Behavior of *Callicebus moloch* at Cocha Cashu, Peru: A Preliminary Analysis. *American Journal of Physical Anthropology*. Suppl. 22: 147.

*Society for the Study of Evolution:*

Lawler RR (2006) Intrasexual Selection in Verreaux's sifaka (*Propithecus verreauxi verreauxi*). Poster presentation. Stony Brook, NY, USA.

Lawler RR, Caswell H (2005) Demographic analysis of a wild lemur population (*Propithecus verreauxi verreauxi*). Poster presentation. Fairbanks, AK, USA.

Lawler RR, Richard AF, Riley MA (2002) Genetic population structure of white sifaka (*Propithecus verreauxi verreauxi*). Poster presentation. Urbana-Champaign, IL, USA.

*Society for Integrative and Comparative Biology:*

Heslep N, Lawler RR, Raharinoro NA, Wunderlich RE (2023) Locomotor energetics and development in wild Verreaux's sifaka (*Propithecus verreauxi*) Poster Presentation, Austin TX, USA.

Lawler RR, Caswell H (2009) Conservation biology of wild Verreaux's sifaka: Sensitivity and LTRE approaches. Poster presentation, Boston MA, USA

Lawler RR, Wunderlich RE (2008) Age-specific patterns of morphological integration in Verreaux's sifaka. Poster Presentation. San Antonio TX, USA.

*International Primatological Society:*

Chen-Kraus C, Raharinoro NA, Lawler RR, Richard AF, Ranaivonasy J, Ratsirarson J, Watts DP (2018) Human activities across management zones at Beza Mahafaly Special Reserve and their effects on Verreaux's sifaka.

Guevara EE, Ranaivonasy J, Richard AF, Ratsirarson J, Lawler RR, Bradley BB (2016) Preliminary characterization of the oral microbiome of a wild lemur, *Propithecus verreauxi*

Lawler RR, Richard AF, Ratsirarson J, Ranaivonasy J, and Brockman DK. (2016) Determinants of recruitment to adulthood in wild Verreaux's sifaka. Invited symposium.

Wunderlich RE, Lawler RR, Williams AE. (2008) Field and experimental approaches to the study of locomotor ontogeny in *Propithecus verreauxi*. Presentation. Edinburgh, Scotland. (presented by Dr. Daniel Schmitt)

*American Society of Primatologists:*

Guevara EE, Grebe NM, Lawler RR, Drea CM, Huebner JL, Kraus VB (2022) Measures of Lemur Physiological Aging. Denver, CO, USA.

Kernim J, Clarke T, La Fleur M, Cuzzo F, Lawler RR, Parga JA, Pastorini J, Sauther ML, Baden AL (2017) Using molecular techniques to determine provenance of illegal ring-tailed lemur (*Lemur catta*) pets to inform conservation actions. Washington DC, USA.

Parga JA, Sauther ML, Cuzzo FP, Youseff Jacky IA, Gould L, Sussman RW, Lawler RR, Pastorini J (2015) Male and female dispersal in wild ringtailed lemurs (*Lemur catta*): Genetic evidence. Bend, OR, USA.

Parga JA, Sauther ML, Cuzzo FP, Lawler RR (2010) Signature of a genetic bottleneck detected in wild ring-tailed lemurs, *Lemur catta*, from southwest Madagascar. Louisville, KY, USA.

*Northeast Evolutionary Primatology Conference:*

- Bell RB, Lawler RR, Ratsirarson J, Rainaivonasy J, Kamilar JM (2021) Characterizing wild lemur microbiomes across multiple body regions in southwest Madagascar.
- Sullivan AP, Godfrey LR, Lawler RR, Randrianatoandro H, Eccles L, Culleton B, Ryan TM, Perry GH (2021). Potential evolutionary body size reduction in a Malagasy primate (*Propithecus verreauxi*) in response to human size-selective hunting pressure.
- White CM, Guevara EE, Chen-Kraus CL, Lawler RR, Bradley BJ (2018) Genetic diversity of *Propithecus verreauxi* across Bezà Mahafaly Special Reserve.
- Guevara EE, Webster TH, Lawler RR, Bradley BJ, Rogers J. (2018) Evolutionary genomics of Verreaux's sifaka (*Propithecus verreauxi*).
- Chen-Kraus C, Ihariliva HK, Lawler RR, Ratsirarson J, Ranaivonasy J, Watts DP (2016) Assessing the impacts of human disturbance on sifaka (*Propithecus verreauxi*) at Bezà Mahafaly Special Reserve.

*Miscellaneous conferences:*

- Lawler RR (2008) The adaptive basis of large feet in young sifaka. Presentation. University of Massachusetts, Amherst, USA. Northeast Anthropological Association
- Sussman RW, Richard AF, Ratsirarson J, Brockman DK, Sauther ML, Lawler RR, Cuzzo FP (2009) Bezà Mahafaly Special Reserve: A research site in southwestern Madagascar. Presentation. German Primate Center, VII. Gottinger Freilandtage, Germany.
- Lawler RR (2010) Variable climates and lemur livelihoods: Insights from demography and genetics. Presentation. Yale University, New Haven, USA. Center for Reproductive Ecology: A look at lemur longevity.
- Wolf SA, Lawler RR, Wunderlich RE (2011) Ontogeny of limb growth and locomotor behavior in *Lemur catta* and *Propithecus verreauxi*. Graduate Research Symposium, College of William and Mary
- Webster TH, Lawler RR, Bradley BJ (2014) Gene loss and protein evolution in *Propithecus verreauxi* detected using exome sequencing and *de novo* assembly. Poster Presentation at the NEPEEBG conference, Rutgers University November 2014.
- Chen-Kraus C, Raharinoro NA, Mahereza JS, Ranaivonasy J, Ratsirarson J, Lawler RR, Richard AF (2019) Distribution and connectivity of sifaka (*Propithecus verreauxi*) in the Mahafaly region, southwest Madagascar. Association for Tropical Biology, Antananarivo, Madagascar.
- Chen-Kraus C, Raharinoro NA, Anderson DJ, Randrianirinarisoa NAM, Lawler RR, Mahereza SJ, Ranaivonasy J, Ratsirarson J, Richard AF, Watts DP. (2019) Human-lemur

coexistence at Bezà Mahafaly Special Reserve, southwest Madagascar. Student Conference on Conservation Science, American Museum of Natural History. New York.

Campos FA, Altmann J, Cords M, Fedigan LM, Lawler RR, Lonsdorf EV, Stoinski TS, Strier KB, Bronikowski AM, Pusey AE, Alberts SC. (2022). A consistent pattern of female reproductive aging revealed in the interbirth intervals of seven primate species. International Society for Behavioral Ecology, Stockholm Sweden.

## **RESEARCH EXPERIENCE IN HOST REGIONS:**

Research Associate, Lemur demography and morphology in southwestern Madagascar with Dr. Joel Ratsirarson et al. (July-August 2023)

Research Associate, Lemur demography and morphology in southwestern Madagascar with Dr. Joel Ratsirarson et al. (August 2022)

Research Associate, Lemur demography and morphology in southwestern Madagascar with Dr. Joel Ratsirarson et al. (August 2019)

Research Associate, Lemur demography and morphology in southwestern Madagascar with Dr. Joel Ratsirarson et al. (August 2018)

Research Associate, Lemur demography and morphology in southwestern Madagascar with Dr. Joel Ratsirarson et al. (July-August 2016)

Research Associate, Lemur demography and morphology in southwestern Madagascar with Dr. Joel Ratsirarson et al. (August 2015)

Research Associate, Lemur demography and morphology in southwestern Madagascar with Dr. Joel Ratsirarson et al. (August-September 2014)

Research Associate, Lemur demography and morphology in southwestern Madagascar with Dr. Alison Richard et al. (August 2013)

Research Associate, Lemur demography and morphology in southwestern Madagascar with Dr. Alison Richard et al. (July-August 2012)

Research Associate, Lemur demography and morphology in southwestern Madagascar with Dr. Alison Richard et al. (July-August 2011)

Research Associate, Lemur demography and morphology in southwestern Madagascar with Dr. Alison Richard et al. (July-August 2008)

Research Associate, Lemur demography and morphology in southwestern Madagascar with Dr. Alison Richard et al. (July-August 2007)

Research Associate, Lemur demography and morphology in southwestern Madagascar with Dr. Alison Richard et al. (July-August 2006)

Research Associate, Lemur demography and morphology in southwestern Madagascar with Dr. Alison Richard et al. (July-August 2005)

Research Associate, Lemur demography and morphology in southwestern Madagascar with Dr. Joel Ratsirarson et al. (July-August 2003)

Research Assistant, Lemur demography and morphology in southwestern Madagascar with Dr. Alison Richard et al. (July-August 2001)

Research Assistant, Human reproductive ecology of The Ache in eastern Paraguay with Dr. Richard Bribiescas. (July 1999)

Research Assistant, Lemur demography and morphology in southwestern Madagascar with Dr. Alison Richard. (January 1998)

Teaching Assistant, course in Primate Ecology and Behavior, La Suerte Biological Research Station. Limon, Costa Rica (June-August 1996)

Research Assistant, Dumond Conservancy for Primates and Tropical Forests. Miami FL. Project on cognitive ethology with Dr. Paul Garber (January-May 1993)

### **LABORATORY/COMPUTATIONAL TRAINING:**

Molecular techniques for primate behavior and conservation, Yale University, Dept. of Ecology and Evolutionary Biology with Dr. Margaret Riley (1998-2002); further training provided by the Yale Institute for Biospheric Studies (Conservation Genetics Laboratory)

Demographic techniques for primate conservation biology, Woods Hole Oceanographic Institution, Biology Department with Dr. Hal Caswell. (2003-2005)

Population Genomics and Statistical Epidemiology, Montreal Spring School, University of Montreal (June 2-5, 2010)

Genomic approaches in anthropology, Texas Biomedical Institute, (Jan 9-10, 2013)

CGEMS Summer workshop in genomics and bioinformatics, James Madison University (July 13-15, 2018).

### **EXTERNAL FUNDING:**

Duke Population Center: Physiological measures of aging in lemurs (co-PI)	(\$ 10,000)
Leakey Foundation: Locomotor energetics in wild sifaka (co-PI)	(\$ 22,000)

N.S.F. Genetic and demographic approaches to life history evolution in sifaka	(\$ 200,000)
N.S.F. Research Starter Grant in Population Dynamics	(\$ 40,000)
N.S.F. Postdoctoral Fellowship in Bioinformatics	(\$ 100,000)
N.S.F. Doctoral Dissertation Research Improvement Grant	(\$ 10,000)

### **INTERNAL FUNDING:**

James Madison University, Sociology/Anthropology Summer Grant	(\$ 4000)
James Madison University, Sociology/Anthropology Summer Grant	(\$ 6000)
Enders Collaborative Research Fellowship	(\$ 4500)
Williams Fund for Anthropological Research	(\$ 1800)
Yale University Dissertation Fellowship	(\$ 12,000)
Mellon Foundation Collaborative Research Grant	(\$ 4500)
Enders Fund of Yale University	(\$ 1500)

### **AWARDS, FELLOWSHIPS, NOMINATIONS:**

Nominated for “Graceful Pivot” online teaching award, JMU, 2020  
 Madison Scholar Award for Research, College of Arts and Letters, JMU, 2019-2020  
 Nominated for Provost Award for Research and Excellence, 2016, 2017  
 National Science Foundation Postdoctoral Fellowship in Biological Informatics, 2003  
 Ales Hrdlicka Graduate Student Prize, AAPA conference, Tempe AZ, 2003  
 Patricia O’Brien Award, Best undergraduate research paper in Anthropology, 1991

### **TEACHING:**

#### *James Madison University:*

- Introduction to Biological Anthropology: Every semester
- Human Evolutionary Psychology: Spring, 2010, 2011, 2017; Fall: 2012, 2015, 2018
- Anthropological Genetics: Fall 2010, 2016; Spring 2014, 2018, 2020
- The Evolution of Primate Sexuality: Fall 2011, 2017, 2019; Spring 2013, 2016, 2021
- Human Evolution: Spring 2012; Fall 2013
- Biological Anthropology: London Edition, Study Abroad, Spring 2019
- The Discipline of Anthropology (on rotation with other faculty)
- Methods and Research Objectives in Biological Anthropology: Fall 2020; Spring 2022, 2023
- Bioanthropological Perspectives on Human Inequality: Fall: 2021, 2022
- Evolution of Human Uniqueness: Life Long Learning Institute, September 2017

#### *Boston University:*

- Human Origins (AN331) Fall 2004, 2005
- Evolutionary Psychology (AN334) Fall 2004, 2007, 2008; Spring 2006
- Primate Evolutionary Ecology (AN336) Spring 2007, 2008
- Introduction to Biological Anthropology (AN102) Spring 2005, 2008, 2009; Fall 2006
- Anthropological Genetics (AN551) Fall 2005, 2006, 2008

- Conserving Wild Primates (AN597) Spring 2005, 2006
- Human Osteology (AN498) Spring 2006
- Anthropological Implications of Evolutionary Theory (AN598) Spring 2009

*Yale University:*

- Introduction to Biological Anthropology, Teaching Fellow.
- Primate Ecology and Behavior, Teaching Fellow.
- The Evolution of Primate Intelligence, Teaching Fellow.
- Human Osteology, Teaching Fellow.
- Primate Evolution, Teaching Fellow.
- Evolutionary Biology, Teaching Fellow.

*Other:*

- Introduction to Anthropology (3x), Southern Illinois University, Teaching Fellow
- Rotations in Primate Ecology, La Suerte Costa Rica, Teaching Fellow

**PROFESSIONAL ACTIVITIES:**

*Reviewer for:*

Molecular Ecology	Behavioral Ecology and Sociobiology	Biotropica
Animal Behavior	Journal of Experimental Zoology	Behavior
Zoo Biology	American Journal of Physical Anthropology	Int. J. Primatol.
J. Hum. Evol.	American Journal of Primatology	PLoS Genetics
J. Anim. Ecol.	Endangered Species Research	Human Nature
Ecology and Evolution	Evolutionary Anthropology	Primates
PLoS One	Proc. Natl. Acad. Sci. USA	Folia Primatologica
Animal Conservation	Evolutionary Biology	Primate Biology
JMU Research J.	Royal Society: Open Science	Behavioral Ecology

*External service:*

Associate Editor, American Journal of Physical Anthropology (2015-2019)  
 Associate Editor, Journal of Human Evolution (2008-2012)  
 Professional Development Committee, American Association of Physical Anthropologists (2019-2021)  
 NSF Panel member: Division of Social, Behavioral, and Economic Sciences (>12x)  
 External Reviewer: National Science Foundation Senior Proposals (>10x)  
 External Reviewer: Earthwatch Foundation  
 External Reviewer: National Geographic Society Senior Proposals (>>1x)  
 External Reviewer: volume for Developments in Primatology: Progress and Prospects  
 External Reviewer: Leakey Foundation Senior and Dissertation Proposals (>>1x)  
 External Reviewer: Primate Conservation Inc. (>>1x)  
 External Reviewer: chapter for “The Evolution of Primate Societies”  
 External Reviewer: chapter for “Building Babies”

*Ph.D. committees/supervision:*

Denise Guillot (Boston University, 2007) Dissertation advisor  
Elaine Guevara (Yale University, 2018) Dissertation committee member  
Chloe Chen-Kraus (Yale University, 2020) Dissertation committee member  
Elizabeth Tapanes (George Washington University, 2021) Dissertation committee member  
Rachel Bell (U-Mass, Amherst, ongoing) Dissertation committee member  
Jenna Owens (University of Texas, San Antonio, ongoing) Dissertation committee member  
Njara Rahirinoro (University of Antananarivo, ongoing) Co-Dissertation advisor

*Invited Seminars:*

CUNY Graduate Center (New York Consortium on Evolutionary Primatology)  
Harvard University (Department of Anthropology)  
Boston University (Department of Biology)  
Yale University (Department of Anthropology)  
James Madison University (Department of Biology)  
University of California-Davis (Evolutionary Anthropology)  
University of Antananarivo, Field School, Bezà Mahafaly 2014, 2018

*University Service at James Madison University:*

Member of PAC for Dr. Howes-Mischel (2023)  
Member of PAC for Drs. Megan Tracy and Joe Spear (2022)  
Biological Anthropology search committee (chair) (2022)  
Institutional Review Board (IRB), Department member (2019-2023)  
VAP Biological Anthropology search committee chair (2020)  
Dingledine Scholarship Selection Committee (2019)  
Cultural Anthropology search committee member (2019-2020)  
Member of PAC for Drs. Becca Howes-Mischel, Benjamin Brewer, Dennis Blanton (2017)  
Instructor, Life Long Learning Institute (class on “Evolution of Human Uniqueness”)  
Member of PAC for Dr. Liam Buckley (2016)  
Member of PAC for Dr. Amy Paugh (2015)  
Assessment of Internal Leave committee (2015)  
IACUC committee (2015-2016)  
Website committee (2015-2016)  
Archaeology search committee member (2015-2016)  
Member of PAC for Dr. Dennis Blanton (2015)  
Member of PAC for Dr. Joshua Linder (2014)  
Member of PAC for Dr. Megan Tracy (2014)  
Departmental Merit Committee (2014)  
PAC chair for Anthropology Department (Drs. Chris Colocousis, Mieka Polanko) (2013-2014)  
Summer internal research grant committee (chair) (2014)  
Student relations and grievance committee (2013-2014)  
Faculty advisory committee to the CAL Dean (2012-2014)  
Member of Departmental Review APR committee (2014)  
Cluster 3 (Natural World) Department representative (2009-2017, 2019-present)



Departmental Merit Committee (2010-2012)  
Sub-committee for reviewing policy on tenure/promotions (2012)  
Cultural Anthropology search committee member (2011-2012)  
Archaeology search committee chair (2011-2012)  
FMLA departmental committee member (2012)  
Academic Rigor Committee, chair (2011)  
CAL-FAC University Committee (2010-2011)  
Human Science Minor, Committee member (2009-2012)  
Advisor, International Service Learning without Borders Club (2011-2015)

*Independent studies/Honor's theses/Master's theses at James Madison University:*

Steven Davic (Honors, An analysis of narratives in conspiracy theories)  
Steven Davic (Reading/Analyzing "Behave" by Robert Sapolsky)  
Talia Neal (Google search trends and melanoma case-counts in the USA)  
Matthew Turner (Exploring phylogenetics of hominins)  
James Drawdy (Factors influencing Neandertal extinctions)  
Kaita Gurian (Professional development for prospective graduate students)  
Kathryn Miller (Topics in Evolutionary Psychology)  
Jenna Owens (Evolutionary psychology of literature)  
Jordan Lamon (Evolutionary Psychology topics)  
Kaitlin Shamlian (Readings in forensic anthropology)  
Nina Schenk (Honors, TA course planner)  
Jennifer Wilburn (Honors, Mechanisms of Ebola transfer)  
Marin Baden (M.A., Biology, Pressure differences during bipedal walking in two new world monkeys)  
Stephanie Wolf (M.A., Biology, Locomotor ontogeny in *Propithecus verreauxi* and *Lemur catta*)  
Nick Heslap (M.A., Biology, Energetic expenditure and locomotion in *Propithecus verreauxi*)

*University Service at Boston University:*

Director of Graduate Studies (Spring 2008, Fall 2008, Spring 2009)  
Academic Conduct Committee (2007, 2008, 2009)  
Graduate Admissions Committee (2005, 2006, 2007, 2008)  
Seven-Year Medical Interview Committee (2006, 2007)  
Bioanthro search committee member (2007, 2008, 2009)  
Senior thesis committee (2005): Anna Schwartz (Theories on the evolution of intelligence)  
Senior honors thesis committee (2006): Michael Astolfi (The evolution of humor)  
Senior honors thesis committee (2009): Charles Esposito (Mate choice factors in humans)