

CURRICULUM VITAE

RICHARD ROBERTS LAWLER

Assistant Professor
Department of Anthropology
James Madison University
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APPOINTMENTS:

Assistant Professor (2009-present) Department of Anthropology, James Madison University
Graduate faculty in Biology (2010-present) Department of Biology, James Madison University
Assistant Professor (2004-2009) Department of Anthropology, Boston University
Guest Investigator (2005-present) Biology Department, Woods Hole Oceanographic Institution
Research Affiliate (2003-present) Department of Anthropology, Yale 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:

Lawler RR (in press) Demographic concepts and research pertaining to the study of wild primate populations. *Yearbook of Physical Anthropology*.

Parga JA, Sauther ML, Cuzzo FP, Youssouf Jacky IA, Lawler RR (in press) Genetic evidence for a population bottleneck in wild ring-tailed lemurs (*Lemur catta*) from southwestern Madagascar. *American Journal of Physical Anthropology*.

Bradley BJ, Lawler RR (2011) Linking genotypes, phenotypes and fitness in wild primate populations. *Evolutionary Anthropology* 20: 109-114.

Guillot DM, Youlatos D, Lawler RR, MacLachy LM. (accepted w/revision) Patterns of positional behavior among ateline primates: A comparative study of *Alouatta seniculus*, *Lagothrix poeppigii*, and *Ateles belzebuth*. *Journal of Human Evolution*.

- Lawler RR (2011) Feeding competition, cooperation, and the causes of primate sociality: A comment on the model proposed by 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, Sauter ML, Yamashita N, Lawler RR, et al. (2008) A comparison of salivary pH in sympatric lemur species (*Lemur catta* and *Propithecus verreauxi*) at Beza 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:

Sussman RW, Richard AF, Ratsirarson J, Sauther ML, Brockman DK, Lawler RR, Cuozzo FP (submitted) Beza Mahafaly Special Reserve: A research site in southwestern Madagascar. Long-term Field Research in Primatology, P.M. Kappeler editor. Springer.

DiFiore T, Lawler RR, Gagneaux P (2010) Molecular primatology. In: CJ Campbell, A Fuentes, KC MacKinnon, M Panger, SK Bearder (eds.) *Primates in Perspective (2/e)* Oxford University Press, Oxford. pp 390-416.

Wunderlich RE, Lawler RR, Williams AE. Field and experimental approaches to the study of locomotor ontogeny in *Propithecus verreauxi*. (2011) In: D'Aout, K. and Vereecke, E.E. (eds) *Studying Primate Locomotion: Linking in situ and ex situ Research*. New York, Springer.

Lewis RJ, Lawler RR (in press) *Propithecus verreauxi verreauxi*. Entry for "Pictorial Guide to Living 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 hominides non identifiés des forêts d'Afrique*. *Continuum* 1(1):188-190

PUBLISHED ABSTRACTS AND MEETING PRESENTATIONS:

American Association of Physical Anthropologists:

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. 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, MacLatchy 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.
- Cuozzo FP, Sauther ML, 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 Beza 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:

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

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

International Primatological Society:

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)

Northeast Anthropological Association:

Lawler RR (2008) The adaptive basis of large feet in young sifaka. Presentation. University of Massachusetts, Amherst, USA.

VII. Göttinger Freilandtage

Sussman RW, Richard AF, Ratsirarson J, Brockman DK, Sauther ML, Lawler RR, Cuozzo FP (2009) Beza Mahafaly Special Reserve: A research site in southwestern Madagascar. Presentation. German Primate Center, Göttingen, Germany.

Center for Reproductive Ecology: A look at lemur longevity

Lawler RR (2010) Variable climates and lemur livelihoods: Insights from demography and genetics. Presentation. Yale University, New Haven, USA.

American Society of Primatologists

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

Graduate Research Symposium at the College of William and Mary

Wolf SA, Lawler RR, Wunderlich RE (2011) Ontogeny of limb growth and locomotor behavior in *Lemur catta* and *Propithecus verreauxi*.

FIELD RESEARCH EXPERIENCE:

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

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

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

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

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

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

Research Assistant, Lemur demography and morphology in southwestern Madagascar with Dr. Alison Richard et al. (Jul.-Aug. 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. (Jan. 1998)

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

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

LABORATORY/COMPUTATIONAL RESEARCH EXPERIENCE:

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

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)

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

FUNDING RECEIVED:

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. Dissertation Improvement Grant	(\$ 10,000)
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)
NERC proposal, Drs. Nick Mundy and Brenda Bradley (PIs)	(£ 40,000)

ACADEMIC ADVISORS:

Dr. Hal Caswell (postdoctoral advisor)
Dr. David Watts (dissertation advisor and chair)
Dr. Alison Richard (dissertation advisor)
Dr. Margaret Riley (dissertation advisor)
Dr. Susan Ford (M.A. advisor)
Dr. Brenda Benefit (M.A. committee member)
Dr. Patricia Wright (M.A. committee member)
Dr. Paul Garber (undergraduate advisor and M.A. committee member)

ACADEMIC ADVISEES:

Denise Guillot, Graduate student BU, (Positional behavior and anatomy of the ateline primates)
Lara Saipe, Graduate student BU, (Physiology and behavioral enrichment of captive apes)
Joyce Parga, Postdoctoral Researcher BU, (Paternity analysis of ring-tailed lemurs)

AWARDS AND FELLOWSHIPS:

National Science Foundation Postdoctoral Fellowship in Biological Informatics, 2003
Ales Hrdlicka Student Prize, AAPA conference, Tempe AZ, 2003
Patricia O'Brien Award, Best undergraduate research paper in Anthropology, 1991
1st Prize. Creation Myth Contest. <http://www.inebriateddiscourse.com/2009/09/creationstorywinner.html>

TEACHING:

James Madison University:

Biological Anthropology (GANTH 196) Fall 2009; Spring 2010; Fall 2010; Spring 2011
Evolution of Human Behavior (ANTH 420) Spring 2010; Spring 2011
Anthropological Genetics (ANTH 395) Fall 2010
Monkey Love: The evolution of primate sexuality (ANTH 395d) Fall 2011

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—directed study) 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
	Evolutionary Anthropology	

Invited Seminars:

CUNY Graduate Center (NYCEP)
Harvard University (Department of Anthropology)
Boston University (Department of Biology)
Yale University (Department of Anthropology)
James Madison University (Department of Biology)

University Service at James Madison University:

Cluster 3 (Natural World) Department representative (2009-2011)
Departmental Merit Committee (2010-2011)
Academic Rigor Committee (2011)
CAL-FAC University Committee (2010-2011)
Human Science Minor, Committee member
Senior honors thesis (present): Jennifer Wilburn (Mechanisms of Ebola transfer)
Senior honors thesis committee (present): Marin Baden (Pressure differences during bipedal walking in two new world monkeys)
Master's thesis committee (present): Stephanie Wolf (Locomotor ontogeny in *Propithecus verreauxi* and *Lemur catta*)

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)

External service:

Associate Editor, Journal of Human Evolution (2008-2012)
NSF Panel member: Division of Social, Behavioral, and Economic Sciences: Fall 2006, Fall 2007, Spring 2008, Fall 2008, Spring 2009.
External Reviewer: National Science Foundation Senior Proposals (multiple times)

External Reviewer: National Geographic Society Senior Proposals
External Reviewer: volume for Developments in Primatology: Progress and Prospects
External Reviewer: Leakey Foundation Senior and Dissertation Proposals
External Reviewer: Primate Conservation Inc.
External Reviewer: chapter for “The Evolution of Primate Societies”

MANUSCRIPTS IN PREPARATION:

Lawler RR (in prep.) Statistical issues and methods in the analysis of wild primate locomotion.
for American Journal of Primatology
Linder JM, Lawler RR (in prep.) Factors influencing primate abundance in Cameroon.
Lawler RR, Wunderlich RE, Rolian C (in prep.) Developmental aspects of morphological
integration in the postcranium in wild Verreaux’s sifaka (*Propithecus verreauxi*).
Lawler RR, Caswell H (in prep.) Lemur demography and climate change.
Bradley BJ, Mundy NI, Lawler RR, et al., (in prep.) Molecular signatures of color vision in
lemurs.
Bradley BJ, Lawler RR, McGrew WC (in prep.) Fitness of female co-twins in strepsirrhines and
platyrrhines.
Lawler RR (in prep) Primate Evolutionary Ecology (planning stages of a comprehensive
textbook)