

# Rachel A. Munds

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## EDUCATION

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- 2018      Ph.D., Biological Anthropology, University of Missouri  
Dissertation: Detecting subtle variation in two cryptic primate families (Tarsiidae & Lorisidae) through morphology and genetics.  
Advisor: Dr. Gregory E. Blomquist
- 2010      M. Philosophy, Primate Conservation, Oxford Brookes University, UK  
Thesis: Population density, habitat, trapping and taxonomy of the Bornean slow loris (*Nycticebus menagensis*) & Bornean tarsier (*Tarius bancanus borneanus*).  
Advisor: Dr. K.A.I. Nekaris
- 2007      B.A., Anthropology, minor Zoology, Southern Illinois University, Carbondale  
Honor's thesis: Captive lemur response to two types of natural enrichment  
Advisor: Dr. Susan M. Ford

## TEACHING

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- Introduction to Genetics and Evolution for Conservation, University of Missouri  
Primary Instructor, 2018
- Introduction to Biological Science, laboratory, University of Missouri  
Teaching Assistant, 2012-current
- Introduction to General Ecology, laboratory, University of Missouri  
Teaching Assistant, 2011-2016
- Missouri Athletic Tutoring Complex, University of Missouri  
Tutor, 2014-2016
- Danua Girang Field Center, Primatology Field Course, Malaysia  
Assistant instructor, 2009

## MENTORING

- Chelsea Titus, Division Biological Sciences, University of Missouri, 2014-2016

## RESEARCH INTERESTS

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Primate evolution, phylogenetics, coat color & pattern adaptations, cryptic species, systematics, species concepts, and conservation

## PUBLICATIONS

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### PEER REVIEWED ARTICLES

- In prep* Munds RA, Titus CL, Eggert LS, & Blomquist GE. The evolution of the melanin-cortin 1 receptor in Lorisidae.
- 2018 Munds, RA, Titus CL, Eggert LS, & Blomquist GE. Using a multi-gene approach to infer the complicated phylogeny and evolutionary history of lorises (Order Primates: Family Lorisidae). *Molecular Phylogenetics and Evolution*.  
<https://doi.org/10.1016/j.ympev.2018.05.025>, *Editors Choice*
- 2018 Munds RA, Dunn RH, & Blomquist GE. Multivariate craniodental allometry of tarsiers. *International Journal Primatology*. 39(2): 252-268.
- 2017 Svensson MS, Bersacola E, Mills MSL, Munds RA, Perkin A, Masters JC, Couette S, Nekaris KAI, Bearder SK. A giant among dwarfs: A new species of galago (Primates Galagidae) from Angola. *American Journal of Physical Anthropology* 163(1):30-43
- 2013 Munds RA, Nekaris KAI, Ali R, Nijman V, & Goossens B. Living together in the night: abundance and habitat use of sympatric and allopatric populations of slow lorises and tarsiers (*Nycticebus* and *Tarsius*). *Endangered Species Research* 22:269-277
- 2013 Munds RA, Nekaris KAI, & Ford SM. Taxonomy of the Bornean loris with new species *Nycticebus kayan* (Primates, Lorisidae). *American Journal of Primatology* 75(1):46-56

### BOOK CHAPTERS

- In prep* Munds RA, Pimley EP, & Nekaris KAI. Ways not to trap the Lorisinae of Asia (*Loris*, *Nycticebus*) and Perodictinae of Africa (*Arctocebus*, *Perodicticus*).
- 2016 Starkweather KE, Munds RA. Primate mating patterns. *International Encyclopedia of Primatology*
- 2010 Nekaris KAI, Munds RA. Using facial markings to unmask diversity: the slow lorises (Primates: Lorisidae: *Nycticebus*) of Indonesia. In Gursky S & Supriatna J (eds). *The Primates of Indonesia*. Springer: New York.

### CONFERENCE PAPERS & POSTERS

- 2017 Munds RA & Blomquist GE. Multivariate craniodental allometry in tarsiers (*Tarsius*), a small-bodied, cryptic, insular primate. *American Association of Physical Anthropology*.
- 2016 Titus CL, Munds RA & Eggert LS. A phylogenetic reconstruction of captive Lorisidae primates with mitochondrial and a nuclear intron. *International Primatological Society*
- 2016 Munds RA, Titus CL, Eggert LS, & Blomquist GE. Examining the adaptiveness of coat variation in slow lorises (*Nycticebus*) through the use of the melanocortin-1-receptor. *International Primatological Society*

- 2016 *Munds RA, Ahsan MH. Phylogenetic reconstruction of Tarsiidae: Uncovering the history of a deeply rooted family. American Association of Physical Anthropology*
- 2015 Titus C, *Munds RA, & Eggert LS. Phenotypic and genetic analyses of slender loris (Loris), slow loris (Nycticebus), angwantibo (Arctocebus), and potto (Perodicticus). Midwest Primate Interest Group*
- 2013 *Munds RA, Ali R, Nekaris KAI, Nijman V, & Goossens B. Living together in the night: abundance & habitat use of sympatric and allopatric populations of slow lorises and tarsiers (Nycticebus and Tarsius). American Association of Physical Anthropology.*
- 2011 *Munds RA, Nekaris KAI, & Ford SM. Facial markings used to reveal taxonomic differences in the Bornean slow loris (Nycticebus menagensis). American Association of Physical Anthropology.*
- 2011 Roatch N, *Munds RA, Ali R, Nijman V, Nekaris KAI, & Goossens B. Bornean loris and tarsier (Nycticebus menagensis & Tarsius bancanus borneanus) abundance and micro-habitat divergences in a degraded forest in Sabah, Malaysian Borneo. American Association of Physical Anthropology.*
- 2008 *Munds RA, Collins R, Nijman V, Nekaris KAI. Abundance estimates of three slow loris taxa in Sumatra (N. coucang), Java (N. javanicus) and Borneo (N. menagensis). International Primatological Society.*
- 2007 *Munds RA, Best K, Hoppe P, Niebruegge K, Sabin D, Whipple M, Knobbe J, Porton IJ, & Ford SM. Captive lemur response to two types of natural enrichment. American Association of Physical Anthropology.*

### SELECTED PRESS

- 2013 Illuminations: Loved to death, [http://illumination.missouri.edu/s13/loved\\_to\\_death](http://illumination.missouri.edu/s13/loved_to_death)
- 2013 BBC Nature: Primate Species: New slow loris species found in Borneo  
<http://www.bbc.co.uk/nature/20704172>
- 2013 National Geographic: Venomous primate discovered in Borneo.  
<http://news.nationalgeographic.com/news/venomous-primate-discovered-in-borneo/>

### PHOTOGRAPHY CREDITS

- 2016 Rowe N. All the World's Primates. Website: *T. b. borneanus & N. menagensis*
- 2010 Campbell et al., Primates in Perspective.
- 2010 Nijman V & Nekaris KAI. Checkerboard patterns, interspecific competition and extinction: Lessons from distribution patterns of tarsiers and slow lorises in insular Southeast Asia. International Journal Primatology.

## INVITED PRESENTATIONS

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- 2018 University of Missouri, Division of Biological Sciences
- 2017 University of Missouri, Department of Anthropology
- 2016 University of Missouri, Evolutionary Bootcamp
- 2015 University of Missouri, Saturday Morning Science
- 2014 Redbud Audubon Society, Belleville, IL (joint with Dr. Susan M. Ford)
- 2014 University of Missouri, EvoBlitz
- 2014 University of Missouri, Wildlife Society
- 2013 University of Missouri, EcoLunch

## RESEARCH GRANTS

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- 2017 University of Missouri, Graduate Student Travel Fund (\$250)
- 2016 The Dorothy Tompkins Gelvin Ph.D., Memorial Scholarship Fund (\$400)
- 2013 The Dorothy Tompkins Gelvin Ph.D., Memorial Scholarship Fund (\$400)
- 2009 Columbus Zoo & Aquarium Conservation Fund, PI R. Ali (\$5000)
- 2008 Primate Conservation Inc. (\$2506)
- 2008 Primate Action Fund (\$4200)
- 2008 Primate Society of Great Britain (£500)
- 2008 Margot Marsh Biodiversity Foundation (\$6000)

## RESEARCH APPOINTMENTS & TRAINING

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- 2012- Researcher, Divisions of Biological Sciences, University of Missouri
- 2017 Location: Eggert Lab. Head of lab: Dr. Lori S. Eggert  
Project: Lorisidae taxonomy and evolution through genetic analyses using ancient DNA, nuclear DNA, and mitochondrial DNA.
- 2011 Graduate Research Assistant, Department of Anthropology, University of Missouri  
Principal Investigator: Dr. Gregory E. Blomquist  
Project: Genetic analyses of co-adaptation of maternal resource supplies affecting infant growth between mother & offspring macaques, using R.
- 2008 Research Assistant, Primate Conservation, Oxford Brookes University, Oxford, UK  
Principal Investigator: Dr. K.A.I. Nekaris  
Project: Taxonomic investigations of *Nycticebus* spp. through microscopic hair analyses.

## PROFESSIONAL MEMBERSHIPS

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Nocturnal Primate Research Group (NPRG, 2008-current)  
American Association of Physical Anthropology (AAPA, 2007-current)  
American Society of Primatology (ASP, 2008-2017)  
International Society of Primatology (ISP, 2008-2017)  
Primate Society of Great Britain (PSGB, 2007-2009)

## AD HOC MANUSCRIPT & GRANT REVIEWS

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Primate Conservation, Folia Primatologica, Zootaxa, Tecnociencia, Mammalian Biology, Primate Conservation Inc. (Grant)

## SKILLS

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Programs: Program R, BEAST, BEAUti, Clustal, DAMBE, GENEIOUS, GIMP, MEGA, Microsoft Office Programs, paML, SPSS, TreeGraph

Languages: Fluent: English. Basic: French, Malay, German, & Portuguese

## PROFESSIONAL REFERENCES

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Upon request