

Rachel A. Munds

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EDUCATION

- 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

PROFESSIONAL APPOINTMENTS

- 2019-Present Postdoctoral Research Scholar, University of Calgary
Department of Anthropology & Archeology

TEACHING

- 2019 Instructor, Evolution, University of Missouri
2019 Instructor, Mammalogy, University of Missouri
2018 Instructor, Genetics & Evolution for Conservation, University of Missouri
2012-2019 Teaching Assistant, Introduction to Biology laboratory, University of Missouri
2011-2016 Introduction to General Ecology laboratory, University of Missouri
- 2014-2016 Tutor, Missouri Athletic Tutoring Complex, University of Missouri
2009 Assistant Instructor, Primatology Field Course, Danua Girang Field Center, Malaysia

MENTORING

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

PUBLICATIONS

PEER REVIEWED ARTICLES

- In review* Munds RA, Titus CL, Eggert LS, & Blomquist GE. Examining the molecular basis of coat color in a nocturnal primate family (Lorisidae). *Journal of Evolutionary Biology*
- 2018 Munds, RA, Titus CL, Eggert LS, & Blomquist GE. 2018. Using a multi-gene approach to infer the complicated phylogeny and evolutionary history of lorises (Order Primates: Family Lorisidae). *Molecular Phylogenetics and Evolution*. 127, 556-567. *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

- 2020 Nekaris KAI, Munds RA, & Pimley EP. Ways not to trap the Lorisinae of Asia (*Loris*, *Nycticebus*) and Perodictinae of Africa (*Arctocebus*, *Perodicticus*). In Nekaris KAI & Burrows AM (eds). *Evolution, Ecology, and Conservation of Lorises and Pottos*. Cambridge University Press, Cambridge, UK.
- 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

- In review* Munds RA, Janiak MC, Montague MJ, Martinez M, Kawamura S, Melin AD, Higham JP. The heritability of red-green cone ratios in a population of free-ranging Rhesus macaques (*Macaca mulatta*). The International Primatological Society.
- 2020 Melin AD, Barron-Arrambide A, Munds RA, Montague MJ, Martinez M, Danias J, Wollstein G, & Higham JP. Intraocular pressure, optic nerve appearance, and posterior pole pathology in a large cohort of free-ranging rhesus macaques. The Association for Research in Vision and Ophthalmology.

- 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 Lorisiidae 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 II, & 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
- 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

- 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

- 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, EXPERIENCE & TRAINING

- 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.
- 2013 Primary Investigator, Lupa Masa EcoLodge, Sabah, Malaysia, Borneo
Project: Abundance of Bornean slow lorises and tarsiers
- 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.
- 2009 Primary Investigator, Danau Girang Field Center, Sabah, Malaysia, Borneo
Project: Abundance surveys, habitat surveys, and trapping of Bornean slow lorises and tarsiers.
- 2009 Primary Investigator, Field Museum of Natural History, American Museum of Natural History, and the Smithsonian Museum of Natural History
Project: Investigating the taxonomy of the Bornean slow loris through coat color and pattern differences.

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

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

American Journal of Primatology, Folia Primatologica, Mammalian Biology, Primate Conservation, Tecnociencia, Zootaxa; Primate Conservation Inc. (Grant)

SKILLS

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

Upon request