

RACHNA B. REDDY

Curriculum Vitae
December 22, 2020

Department of Human Evolutionary Biology
Harvard University
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Google Scholar Profile:

https://scholar.google.com/citations?view_op=list_works&hl=en&user=5thSCQ4AAAJ

RESEARCH INTERESTS

Biological anthropology, primatology, behavioral ecology, human evolution, developmental psychology, social cognition, life history, social bonds, kinship, reproductive strategies, adolescence, emotional and mental health.

ACADEMIC POSITIONS

2020-present Mind Brain Behavior Postdoctoral Fellow, Department of Human Evolutionary Biology & Department of Psychology, Harvard University

EDUCATION

2020 Ph.D. in Anthropology, University of Michigan
2012 B.A. with Distinction in Evolutionary Anthropology, Duke University

PUBLICATIONS

Peer-reviewed Journal Articles

1. Sandel AA & **Reddy RB**. Sociosexual behaviour in wild chimpanzees occurs in variable contexts and is frequent between same-sex partners. (accepted). *Behaviour*
2. **Reddy RB**, Langergraber KE, Sandel AA, Vigilant L, & Mitani JC. The development of affiliative and coercive reproductive tactics in male chimpanzees. (in press). *Proceedings of the Royal Society B: Biological Sciences*
3. **Reddy RB** & Mitani JC. Adolescent and young adult male chimpanzees form affiliative, yet aggressive relationships with females. (2020). *Journal of Human Evolution*, 144, 102813
4. **Reddy RB** & Sandel AA. Social relationships between chimpanzee sons and mothers endure but change during adolescence and adulthood. (2020). *Behavioral Ecology and Sociobiology* 74(150), 1-14
5. **Reddy RB** & Wellman HW. Caregiving relationships as evolutionary and developmental bases of obligation. Commentary on target article: M. Tomasello, Moral psychology of obligation. (2020). *Behavioral and Brain Sciences*, 43, E83
6. **Reddy RB** & Mitani JC. Social relationships and caregiving behavior between recently orphaned chimpanzee siblings. (2019). *Primates* 60(5):389 – 400
7. Negrey JD, **Reddy RB**, Scully EJ, Phillips-Garcia S, Owens L, Langergraber KE, Mitani JC, Emery Thompson M, Wrangham RW, Muller MN, Otali E, Machanda Z, Hyeroba D, Grindle KA, Pappas TE, Palmenberg AC, Gern JE, & Goldberg TL. Simultaneous outbreaks of respiratory disease in chimpanzees caused by distinct viruses of human origin. (2019). *Emerging Microbes & Infections* 8(1), 139-149
8. Sandel AA, **Reddy RB**, & Mitani JC. Adolescent male chimpanzees do not form a dominance hierarchy with their peers. (2017). *Primates* 58(1), 39-49
9. **Reddy RB**, Krupenye C, MacLean EL, & Hare B. No evidence for yawn contagion in lemurs. (2016). *Animal Cognition* 19(5), 889-898

10. **Reddy RB**, MacLean EL, Sandel AA, & Hare B. Social inhibitory control in five lemur species. (2015). *Primates* 56(3), 241-252
11. MacLean EL, Hare B, Nunn CL, Addessi E, Amici F, Anderson RC, Aureli F, Baker J M, Bania AE, Barnard AM, Boogert NJ, Brannon EM, Bray EE, Bray J, Brent LJN, Burkart JM, Call J, Cantlon JF, Cheke LG, Clayton NS, Delgado MM, DiVincenti LJ, Fujita K, Herrmann E, Hiramatsu C, Jacobs LF, Jordan KE, Laude JR, Leimgruber KL, Messer EJE, Moura, AC de A, Ostojic L, Picard A, Platt ML, Plotnik JM, Range F, Reader SM, **Reddy RB**, Sandel AA, Santos LR, Schumann K, Seed AM, Sewall KB, Shaw RC, Slocombe KE, Su Y, Takimoto A, Tan J, Tao R, van Schaik CP, Virányi Z, Visalberghi E, Wade JC, Watanabe A, Widness J, Young JK, Zentall TR, & Zhao, Y. The evolution of self-control. (2014). *Proceedings of the National Academy of Sciences* 111(20), E2140-E2148
12. MacLean EL, Sandel AA, Bray J, Oldenkamp RE, **Reddy RB**, & Hare B. Group size predicts social but not nonsocial cognition. (2013). *PLoS One* 8(6), 0066359

Manuscripts in Review

13. Clark IR, Sandel AA, **Reddy RB**, & Langergraber KE. A preliminary analysis of wound care and other-regarding behavior in wild chimpanzees at Ngogo, Kibale National Park, Uganda. (n.d., in revision)
14. **Reddy RB** & Wellman HW. Children's understanding of waking and consciousness in others. (n.d.)
15. **Reddy RB**, Echelbarger M, Toomajian N, Hammond T & Wellman HW. Children help dogs spontaneously. (n.d.)

RESEARCH GRANTS & FELLOWSHIPS

External

2016	National Science Foundation Doctoral Dissertation Research Improvement Grant (\$17,146)
2016	L.S.B. Leakey Foundation Grant (\$5,272)
2016	James F. Nacey Fellowship, Nacey-Maggioncalda Foundation (\$5,000)
2015	National Geographic Young Explorer Grant, National Geographic Society (\$4,910)
2014	National Science Foundation Graduate Research Fellowship (\$132,000)

Internal

2020	Mind Brain Behavior Postdoctoral Fellowship Award, Harvard University (\$143,655)
2019	Rackham Graduate School Predoctoral Fellowship, University of Michigan (\$32,640)
2017	Junior Fellowship, Gayle Morris Sweetland Center for Writing, University of Michigan (\$6,000 & teaching appointment)
2016	Rackham International Research Award, University of Michigan (\$7,500)
2015	Rackham Graduate Student Research Grant, University of Michigan (\$1,500)
2014	International Institute Individual Fellowship, University of Michigan (\$3,300)
2014	African Studies Center Award, University of Michigan (\$2,500)
2011	Deans' Summer Research Fellowship, Duke University (\$2,500)
2011	Molly H. Glander Student Research Grant, Duke Lemur Center (\$300)
2011	Undergraduate Internship Fund Grant, Duke University (\$2,328)
2011	(Fall) Independent Study Grant, Duke University (\$400)
2011	(Spring) Independent Study Grant, Duke University (\$400)
2010	Deans' Summer Research Fellowship, Duke University (\$2,000)
2009	Howard Hughes Research Fellows Program, Duke University (\$4,000)

AWARDS & HONORS

2019	Outstanding Graduate Student Instructor, University of Michigan
2015	Outstanding Graduate Student Instructor, University of Michigan
2010	Melcher Family Award for Excellence in Journalism, Duke University

TALKS & POSTERS

Invited

- 2020 “Social Relationships and Reproduction in Adolescent Male Chimpanzees,” Social Origins Laboratory, Department of Psychology, University of California, Berkeley, October 8, 2020
- 2020 “The Social Lives of Chimpanzees,” The Leakey Foundation’s Lunch Break Science Talk Series, July 23, 2020
- 2020 “The Social World of Chimps,” National Geographic Explorer Classroom Series, May 13, 2020
- 2019 “The Development of Reproductive Tactics in Male Chimpanzees,” Primatology Research Group, Department of Anthropology, University of Texas at Austin, March 8, 2019
- 2016 “The Development of Reproductive Tactics in Male Chimpanzees,” Makerere University Biological Field Station, Kibale National Park, Kamwenge District, Uganda, July 15, 2016

Contributed

- 2020 **Reddy RB**, Engelmann J, Herrmann E, & Surbeck M. Does love motivate apes to help others? The Love Consortium Community Event. August 27, 2020
- 2020 **Reddy RB**. Variation in adolescent male chimpanzee reproductive tactics: implications for understanding what is a “population” of chimpanzees. Published abstract. 89th Annual Meeting of the American Association of Physical Anthropologists. Los Angeles, CA (conference canceled)
- 2020 Clark IR, **Reddy RB**, Sandel AA, & Langergraber KE. Alloparental carrying and wound care in wild chimpanzees at Ngogo, Kibale National Park, Uganda. Published abstract. 89th Annual Meeting of the American Association of Physical Anthropologists. Los Angeles, CA (conference canceled)
- 2019 **Reddy RB**, Langergraber KE, Sandel AA, & Mitani JC. The development of male chimpanzee reproductive strategies. 88th Annual Meeting of the American Association of Physical Anthropologists. Cleveland, Ohio
- 2019 Goldberg TL, Basnet S, Emery Thompson M, Gern JE, Grindle KA, Langergraber KE, Machanda Z, Mitani JC, Muller MN, Negrey JD, Ota E, Owens L, Palmenberg AC, Pappas TE, Phillips-Garcia S, **Reddy RB**, Scully EJ, & Wrangham RC. Chimpanzee reverse zoonoses: unfortunate natural experiments in great ape comparative medicine and demography. 88th Annual Meeting of the American Association of Physical Anthropologists. Cleveland, Ohio
- 2018 **Reddy RB** & Mitani JC. Social relationships between orphaned chimpanzee siblings at Ngogo, Kibale National Park, Uganda. 87th Annual Meeting of the American Association of Physical Anthropologists. Austin, Texas
- 2016 **Reddy RB** & Sandel AA. Adolescent male chimpanzees do not form a linear dominance hierarchy with their peers. 85th Annual Meeting of the American Association of Physical Anthropologists. Atlanta, Georgia
- 2015 **Reddy RB**, Krupenye C, MacLean EL, Hare B. Lemurs do not yawn contagiously. 84th Annual Meeting of the American Association of Physical Anthropologists. St. Louis, Missouri
- 2014 **Reddy RB**, Anderson RC, Hare B. Vocal recognition in ring-tailed lemurs. 83rd Annual Meeting of the American Association of Physical Anthropologists. Calgary, Alberta, Canada
- 2013 MacLean EL, Sandel AA, Bray J, Oldenkamp R, **Reddy RB**, Hare B. Group size predicts social but not nonsocial cognition in lemurs. 20th International Conference on Comparative Cognition. Melbourne, Florida

Internal

- 2020 “The Development of Adolescent Male Chimpanzee Social and Reproductive Behavior,” Tuesday Lunch Symposium, Department of Human Evolutionary Biology, Harvard University, September 15, 2020

- 2019 Panelist, “Graduate Students and Their Exploration of the Future,” Celebrating our Donors and Their Lasting Impact, Rackham Graduate School, University of Michigan, October 4, 2019
- 2018 “Some Male Chimpanzees Maintain Close Social Bonds with Their Mothers in Adulthood,” Biological Anthropology Meeting, Department of Anthropology, University of Michigan, January 17, 2018
- 2018 “Comparative Field Research Methods,” Psychology Methods Hour, Department of Psychology, University of Michigan, February 23, 2018
- 2017 “Social Relationships Between Recently Orphaned Chimpanzee Siblings,” Biological Anthropology Meeting, Department of Anthropology, University of Michigan, October 25, 2017
- 2014 “Vocal exchanges among ring-tailed lemurs. Four Field Anthropology Conference, University of Michigan, March 22, 2014

RESEARCH SITES

- 2013-present **Ngogo Chimpanzee Project**, Kibale National Park, Uganda, P.I.’s Drs. John Mitani, David Watts, & Kevin Langergraber, Fieldwork on wild chimpanzee social behavior
- 2020-present **Kokolopori Bonobo Research Project**, Kokolopori Bonobo Reserve, Democratic Republic of Congo, P.I. Dr. Martin Surbeck, Fieldwork on wild bonobo social behavior (Upcoming, expected start: January 2021)
- 2020-present **Stress & Development Laboratory**, Department of Psychology, Harvard University, P.I. Dr. Katie McLaughlin, Developing clinical psychology methods for assessing how life adversity impacts mental health trajectories in wild apes
- 2014-present **Infant Cognition Lab**, Department of Psychology, University of Michigan, P.I. Dr. Henry Wellman, Developmental psychology research on child social cognition
- 2008-2013 **Duke Lemur Center**, Durham, North Carolina
Designed and performed experiments to study cognition, social behavior and vocal communication in lemurs
- 2009-2013 **North Carolina Zoo**, Asheboro, North Carolina
Tested hamadryas baboons and chimpanzees in comparative studies of cognition
- 2008-2013 **Hominoid Psychology Research Group & Duke Canine Cognition Center**, Department of Evolutionary Anthropology, Duke University, P.I. Dr. Brian Hare, Managed laboratory, conducted cognitive experiments with lemurs, monkeys, apes, and pet dogs
- 2011 **Budongo Conservation Field Station**, Budongo Forest Reserve, Uganda
Habituated and studied the behavior of wild chimpanzees

WORKSHOPS

- 2018 Diverse Intelligences Summer Institute, Templeton World Charity Foundation, University of St. Andrews, Scotland
- 2014 AnthroTree Workshop, Duke University, Durham, North Carolina

TEACHING

Primary Instructor, University of Michigan

- 2019 Introduction to Biological Anthropology
- 2018 Writing and Academic Inquiry: Coming of Age Stories

Assistant Instructor, University of Michigan

- 2019 Primate Evolutionary Ecology (teaching award recipient)
- 2015 Introduction to Biological Anthropology
- 2014 Primate Social Behavior (teaching award recipient)

MENTORING

2020	Marysa Gatica, Undergraduate Research Opportunity Program, University of Michigan
2019	Alexis Smith, Michigan Summer Program in Cognitive Development, Undergraduate Student, Spelman College
2018-2019	Natalie Toomajian, Undergraduate Student & Lab Manager, Psychology, University of Michigan
2018	Janelis Lopez, Michigan Summer Program in Cognitive Development Undergraduate Student, University of Michigan
2018	Taeah Hammond, Michigan Summer Program in Cognitive Development Undergraduate Student, University of Michigan
2018	Samantha Ladd, Michigan Summer Program in Cognitive Development Undergraduate Student, Colby College
2017-2018	Sarah Conwisar, Undergraduate Independent Study Student, Psychology, University of Michigan
2017-2018	Liza Rosenfeld, Undergraduate Independent Study Student, Psychology, University of Michigan
2016-2017	Jeremy Clift, Research Assistant, Ngogo Chimpanzee Project
2013	Seraphina Wong, High School Summer Research Program, North Carolina School of Science and Mathematics
2013	Laura Lewis, Howard Hughes Research Fellows Program, Duke University
2012-2013	Sruti Pisharody, Undergraduate Independent Study Student, Duke University
2012	Melissa Klein, Howard Hughes Research Fellows Program, Duke University

SERVICE

Harvard University, Department of Human Evolutionary Biology

2020-present	Diversity and Inclusion Task Force Working group leader on mentorship training in inaugural task force, member of outreach working group
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University of Michigan, Department of Anthropology

2016-2020	Biological Anthropology Conduct Committee Spearheaded, developed, and wrote guidelines for preventing and addressing misconduct and discrimination at field sites, developed strategies with international field teams to implement (and continue to implement) these on-the-ground
2018	Search Committee, Biological Anthropology Faculty Hire
2013-2016	Co-Coordinator, Four Field Anthropology Graduate Talk Series
2014-2016	Panelist, Undergraduate Honors Student Discussion Panel on Writing
2014-2015	Judge, Undergraduate Senior Honors Thesis Poster Session

Duke University, Department of Evolutionary Anthropology

2011	Undergraduate Representative, Meeting with External Review Committee
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PUBLIC OUTREACH

Institutions & Ongoing Projects

2015-present	Backyard Wildlife Drawing Exchange Program Started program where primary school students around the world exchange drawings of their favorite local wildlife. More than 500 students have participated
2014-present	Kyakagunga Primary School, Kamwenge District, Uganda Work with teachers and community members to apply for permanent government funding, raise funds for classroom construction, conduct biodiversity and conservation lessons, organize and judge science fairs for students

- 2018 “Careers in the Forest” Workshop for women in Bigodi Village, Kamwenge District, Uganda
 2012-2013 Duke Canine Cognition Center, Duke University, Durham, North Carolina
 Hosted school field trips and designed interactive activities to teach K-12 students about the scientific process and the evolution of cognitive traits

Educational Talks

- 2019 Haisley Elementary School, Ann Arbor, MI, USA
 2019 Emerson School, Ann Arbor, MI, USA
 2019 Huron High School, Ann Arbor, MI, USA
 2019 Pioneer High School, Ann Arbor, MI, USA
 2019 The Evergreen School, Shoreline, WA, USA
 2018 Pioneer High School, Ann Arbor, MI, USA
 2018 The Evergreen School, Shoreline WA, USA
 2018 Niji-Iro Japaese Immersion Elementary School, Livonia, MI, USA
 2016 The Evergreen School, Shoreline, WA, USA
 2016 Kyakagunga Primary School, Kamwenge District, Uganda
 2014 Public Nurses College, Kampala, Uganda
 2014 Southwest Detroit Charter School, Detroit, MI, USA
 2014 Angell Elementary School, Ann Arbor, MI, USA

Media Experience & Collaborations

- 2018-present Consultant, Silverback Films for the BBC’s “The Mating Game”
 2019 Speaker, National Geographic’s Explorer Academy Event
 2019 Kundiman Fiction Fellowship
 2017 Contributor, National Geographic Panorama: Science, “What Do Animals Need?”
 2016 Kundiman Fiction Fellowship
 2011-2012 Co-Editor-in-Chief, Towerview Magazine, Duke University
 2009-2010 Health & Science Editor, The Chronicle, Duke University

MEDIA COVERAGE

- 2020 “Even as young adults, male chimps are ‘mama’s boys,’” Research featured in *Science*.
<https://www.sciencemag.org/news/2020/12/even-young-adults-male-chimps-are-mama-sboys>
 2019 “Chimps really do care,” Research featured in *New Scientist*.
<https://www.sciencedirect.com/science/article/abs/pii/S0262407919311546?via%3Dihub>
 2019 “Human respiratory viruses continue to spread in wild chimpanzees,” Research featured in *University of Wisconsin-Madison News*.
<https://news.wisc.edu/human-respiratory-viruses-continue-to-spread-in-wild-chimpanzees>
 2014 “This is how you study the evolution of animal intelligence,” Research featured in *National Geographic*.
<https://www.nationalgeographic.com/science/phenomena/2014/04/22/this-is-how-you-study-the-evolution-of-animal-intelligence/>
 2012 “The allure of lemurs,” Research featured in *Duke Today*.
<https://today.duke.edu/2012/05/reddy>