

## RACHNA REDDY

Curriculum Vitae  
September 10, 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](https://scholar.google.com/citations?view_op=list_works&hl=en&user=5thSCQ4AAAJ)

### RESEARCH INTERESTS

Biological anthropology, primatology, behavioral ecology, developmental psychology, 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 (chair: Dr. John Mitani)

2012 B.A. with Distinction in Evolutionary Anthropology, Duke University

### PUBLICATIONS

- In revision **Reddy RB**, Langergraber KE, Sandel AA, Vigilant L, & Mitani JC. The development of affiliative and coercive reproductive tactics in male chimpanzees.
- In revision **Reddy RB** & Sandel AA. Social relationships between chimpanzee sons and mothers endure but change during adolescence and adulthood.
- In review Sandel AA & **Reddy RB**. Sociosexual behaviour in wild chimpanzees occurs in variable contexts and is frequent between same-sex partners.
- 2020 **Reddy RB** & Mitani JC. Adolescent and young adult male chimpanzees form affiliative, yet aggressive relationships with females. *Journal of Human Evolution*, 144, 102813
- 2020 **Reddy RB** & Wellman HW. Caregiving relationships as evolutionary and developmental bases of obligation. Commentary. *Behavioral and Brain Sciences*, 43, E83.
- 2019 **Reddy RB** & Mitani JC. Social relationships and caregiving behavior between recently orphaned chimpanzee siblings. *Primates* 60(5):389 – 400
- 2019 Negrey JD, **Reddy RB**, Scully EJ, Phillips-Garcia S, Owens L, Langergraber KE, Mitani JC, Emery Thomspon 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. *Emerging Microbes & Infections* 8(1):139-149
- 2017 Sandel AA, **Reddy RB**, & Mitani JC. Adolescent male chimpanzees do not form a dominance hierarchy with their peers. *Primates* 58(1):39-49
- 2016 **Reddy RB**, Krupenye C, MacLean EL, & Hare B. No evidence for yawn contagion in lemurs. *Animal Cognition* 19(5):889-898
- 2015 **Reddy RB**, MacLean EL, Sandel AA, & Hare B. Social inhibitory control in five lemur species. *Primates* 56(3): 241-252
- 2014 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 L J N, 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. *Proceedings of the National Academy of Sciences* 111(20): E2140-E2148
- 2013 MacLean EL, Sandel AA, Bray J, Oldenkamp RE, **Reddy RB**, & Hare B. Group size predicts social but not nonsocial cognition. *PLoS One* 8(6): 0066359

### Manuscripts in Preparation

- Reddy RB** & Wellman HW. Children's understanding of consciousness and waking up
- Reddy RB**, Echelbarger M, Hammond T, Toomaijian N & Wellman HW. Children help dogs spontaneously
- Clark IR, Sandel AA, Reddy, RB, & Langergraber KE. Wound care behaviors among wild chimpanzees at Ngogo, Kibale National Park, Uganda

### 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, Department of Anthropology, University of Michigan
- 2015 Outstanding Graduate Student Instructor, Department of Anthropology, University of Michigan
- 2010 Melcher Family Award for Excellence in Journalism, Duke University

### INVITED TALKS

- 2020 "The Social Lives of Chimpanzees," The Leakey Foundation's Lunch Break Science Online Talk Series, July 23, 2020
- 2020 "The Social World of Chimps," National Geographic Explorer Classroom Online Series, May 13, 2020
- 2019 "The Development of Reproductive Tactics in Male Chimpanzees," Primatology Research Group, Department of Anthropology, University of Texas at Austin, USA March 8, 2019
- 2016 "The Development of Reproductive Tactics in Male Chimpanzees," Tropical Biology Association Course, Makerere University Biological Field Station, Kibale National Park, Kamwenge District, Uganda, July 15, 2016

### CONTRIBUTED TALKS & ABSTRACTS

- 2020 **Reddy RB**, Engelmann J, Herrmann E, & Surbeck M. Does love motivate apes to help others? The Love Consortium Community Event. August 27, 2020 (online)
- 2020 **Reddy RB**. Variation in adolescent male chimpanzee reproductive tactics: implications for understanding what is a "population" of chimpanzees. Published abstract. 89<sup>th</sup> 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. 89<sup>th</sup> 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. 88<sup>th</sup> 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, Otali 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. 88<sup>th</sup> 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. 87<sup>th</sup> 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. 85<sup>th</sup> 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. 84<sup>th</sup> 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. 83<sup>rd</sup> 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

### CAMPUS TALKS

- 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 & EXPERIENCE

- 2013-present Ngogo Chimpanzee Project, Kibale National Park, Uganda, P.I.’s Drs. Kevin Langergraber, John Mitani, & David Watts  
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)
- 2014-present Infant Cognition Lab, Department of Psychology, University of Michigan, P.I. Dr. Henry Wellman, Developmental psychology research child social cognition
- 2015-2020 The Conceptual Development Lab, Department of Psychology, University of Michigan, P.I. Dr. Susan Gelman, Psychology research on emotional attachments
- 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, Duke University, P.I. Dr. Brian Hare  
Conducted cognitive experiments with primates, pet dogs, managed laboratory
- 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 (developed course)

### 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  
member of public outreach working group and leader of working group on mentoring training

### **University of Michigan, Department of Anthropology**

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

### **Duke University, Department of Evolutionary Anthropology**

- 2011           Undergraduate Representative, Meeting with External Review Committee

## **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

### **K-12 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 Collaborations & Experience**

2018-present Consultant, *Silverback Films* for the BBC's "The Mating Game"  
2019 Speaker, National Geographic's *Explorer Academy* Event  
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