

## RACHNA B. REDDY

Curriculum Vitae

August 29, 2023

Department of Anthropology  
University of Utah  
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[Google Scholar Profile](#)

### RESEARCH INTERESTS

Primatology, evolutionary anthropology, behavioral ecology, psychology, social relationships, kinship, development, life history, adolescence, reproductive strategies, sexual coercion, caregiving, social cognition, social learning, social anxiety, health and well-being

### ACADEMIC POSITIONS

2023 - Assistant Professor of Anthropology, University of Utah  
2022- Research Associate, Department of Human Evolutionary Biology, Harvard University  
2022-2023 Postdoctoral Fellow, Department of Evolutionary Anthropology, Duke University  
2020-2022 Mind Brain Behavior Interfaculty Initiative Postdoctoral Fellow, Departments of Human Evolutionary Biology & Psychology, Harvard University

### EDUCATION

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

### PUBLICATIONS

#### Journal Article

2023 **Reddy RB**, Echelbarger M, Toomaijian N, Hammond T & Wellman HW. 2023. Do children help dogs spontaneously? *Human-Animal Interactions*  
Selected press: [The Guardian](#), [Popular Science](#), [the Wall Street Journal](#),  
2023 Sandel AA, Negrey JD, Arponen M, Clark IR, Clift JB, **Reddy RB**, & Ivaska K. 2023. The evolution of the adolescent growth spurt: urinary biomarkers of bone turnover in wild chimpanzees. *Journal of Human Evolution* 177, 103341  
2022 **Reddy RB**, Sandel AA, & Dahl RE. 2022. Puberty initiates a unique stage of social learning and development prior to adulthood: insights from studies of adolescence in wild chimpanzees. Special Issue Invited Paper. *Developmental Cognitive Neuroscience*

- Selected press: [Adaptivity, the Science of Adolescence Podcast](#)
- 2022 Negrey JD, Mitani JC, Wrangham RW, Otali E, **Reddy RB**, Pappas TE, Grindle KA, Gern JE, Machanda ZP, Muller MN, Langergraber KE, Emery Thompson M, & Goldberg TL. 2022. Viruses associated with ill health in wild chimpanzees. *American Journal of Primatology*
- 2021 **Reddy RB**, Langergraber KE, Sandel AA, Vigilant L, & Mitani JC. 2021. The development of affiliative and coercive reproductive tactics in male chimpanzees. *Proceedings of the Royal Society B: Biological Sciences* 288, 20202679
- Selected press: [BBC1's: The Mating Game](#), [Sciences et Avenir](#)
- 2021 Sandel AA & **Reddy RB**. 2021. Sociosexual behaviour in wild chimpanzees occurs in variable contexts and is frequent between same-sex partners. *Behaviour* 158(3-4), 249-276
- 2021 Clark IR, Sandel AA, **Reddy RB**, & Langergraber KE. 2021. A preliminary analysis of wound care and other-regarding behavior in wild chimpanzees at Ngogo, Kibale National Park, Uganda. *Primates*
- 2020 **Reddy RB** & Sandel AA. 2020. Social relationships between chimpanzee sons and mothers endure but change during adolescence and adulthood. *Behavioral Ecology and Sociobiology* 74(150), 1-14
- Selected press: [National Geographic](#), [Science Magazine](#)
- 2020 **Reddy RB** & Mitani JC. 2020. Adolescent and young adult male chimpanzees form affiliative, yet aggressive relationships with females. *Journal of Human Evolution*, 144, 102813
- Press: [BBC1's: The Mating Game](#)
- 2020 **Reddy RB** & Wellman HW. 2020. Caregiving relationships as evolutionary and developmental bases of obligation. Commentary on target article: M. Tomasello, Moral psychology of obligation. *Behavioral and Brain Sciences* 43,
- 2019 **Reddy RB** & Mitani JC. 2019. Social relationships and caregiving behavior between recently orphaned chimpanzee siblings. *Primates* 60(5):389 - 400
- Selected press: [New Scientist](#).
- 2019 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. 2019. 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. 2017. 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. 2016. No evidence for yawn contagion in lemurs. *Animal Cognition* 19(5), 889-898
- Selected Press: [Duke Today](#)
- 2015 **Reddy RB**, MacLean EL, Sandel AA, & Hare B. 2015. 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 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. 2014. The evolution of self-control. *Proceedings of the National Academy of Sciences* 111(20), E2140-E2148  
Selected press: [National Geographic](#)
- 2013 MacLean EL, Sandel AA, Bray J, Oldenkamp RE, **Reddy RB**, & Hare B. 2013. Group size predicts social but not nonsocial cognition. *PLoS One* 8(6), 0066359

### Submitted Manuscripts

- Reddy RB**, Samuni L, Städele, V, Vigilant L, & Surbeck M. Maternal conflict intervention is more frequent in chimpanzee compared to bonobo development
- Reddy RB** & Wellman HW. Children's reasoning about a basic aspect of consciousness in others
- Derby RN, Clift J, Rawat I, **Reddy RB**, Voyt R, Sandel AA. Variation in limb length and width in wild chimpanzees across adolescence and young adulthood

### Books

- In progress *Chimpanzee Boys*, a novel based on the true story of a chimpanzee who comes of age in years that precede the Ngogo chimpanzee community fission

### RESEARCH GRANTS & FELLOWSHIPS

- 2020 **Mind Brain Behavior Interfaculty Initiative Postdoctoral Fellowship Award, Harvard University**, "Pathways to emotional well-being in adolescent apes," PI (\$143,655)
- 2019 **Rackham Graduate School Predoctoral Fellowship, University of Michigan**, "The development of male reproductive strategies in wild chimpanzees," PI (\$32,640)
- 2017 **Junior Fellowship, Gayle Morris Sweetland Center for Writing, University of Michigan**, "Coming of Age as an Ape," PI (\$6,000 & teaching appointment)
- 2016 **National Science Foundation Doctoral Dissertation Research Improvement Grant**, "The development of male reproductive strategies in wild chimpanzees," Co-PI (\$17,146)
- 2016 **L.S.B. Leakey Foundation Grant**, "The development of male reproductive strategies in wild chimpanzees," Co-PI (\$5,272)

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|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2016 | <b>James F. Nacey Fellowship, Nacey-Maggioncalda Foundation,</b> "The development of male reproductive strategies in wild chimpanzees," PI (\$5,000)                                                                 |
| 2016 | <b>Rackham International Research Award, University of Michigan,</b> "The development of male reproductive strategies in wild chimpanzees," PI (\$7,500)                                                             |
| 2015 | <b>National Geographic Young Explorer Grant,</b> National Geographic Society, "The development of male-female social relationships in male chimpanzees," PI (\$4,910)                                                |
| 2015 | <b>Rackham Graduate Student Research Grant, University of Michigan,</b> "The development of male-female social relationships in wild chimpanzees," PI (\$1,500)                                                      |
| 2014 | <b>National Science Foundation Graduate Research Fellowship,</b> "The development of aggression in male chimpanzees, PI (\$132,000)                                                                                  |
| 2014 | <b>International Institute Individual Fellowship, University of Michigan,</b> "The development of aggression in male chimpanzees," PI (\$3,300)                                                                      |
| 2014 | <b>African Studies Center Award, University of Michigan,</b> "The development of aggression in male chimpanzees," PI (\$2,500)                                                                                       |
| 2011 | <b>Deans' Summer Research Fellowship, Duke University,</b> "Assessing chimpanzee use of logged and un-logged forest in Budongo Forest Reserve, Uganda: Information for habituation and conservation," PI (\$2,500)   |
| 2011 | <b>Undergraduate Internship Fund Grant, Duke University,</b> "Assessing chimpanzee use of logged and un-logged forest in Budongo Forest Reserve, Uganda: Information for habituation and conservation," PI (\$2,328) |
| 2011 | <b>Molly H. Glander Student Research Grant, Duke Lemur Center,</b> "Contagious yawning in ring-tailed and mongoose lemurs," PI (\$300)                                                                               |
| 2011 | <b>Independent Study Grant, Duke University,</b> "Do red ruffed lemurs yawn contagiously?," PI (\$400)                                                                                                               |
| 2011 | <b>Independent Study Grant, Duke University,</b> "Do mongoose lemurs comprehend what others can perceive?," PI (\$400)                                                                                               |
| 2010 | <b>Deans' Summer Research Fellowship, Duke University,</b> "Inhibitory control in primates," PI (\$2,000)                                                                                                            |
| 2009 | <b>Howard Hughes Research Fellows Program, Duke University</b> (\$4,000)                                                                                                                                             |

## **AWARDS & HONORS**

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|------|--------------------------------------------------------------------|
| 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 |

## **PRESENTATIONS**

### **Invited Talks**

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|------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2023 | "Puberty initiates a unique stage of learning and development prior to adulthood: insights from studies of adolescence in wild chimpanzees," Origins |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------|

- of the Social Mind Preconference, The Society for Personality and Social Psychology Conference, Atlanta, Georgia, February 23, 2022
- 2022 "Adolescence as a period of vulnerabilities and opportunities: New perspectives from field studies in chimpanzees and bonobos," Institute of Human Development Colloquium, University of California, Berkeley, April 18, 2022
- 2021 "Social Relationships and Reproduction in Adolescent Male Chimpanzees," Biological Anthropology Group, Department of Anthropology, Northwestern University, April 16, 2020
- 2020 "Social Relationships and Reproduction in Adolescent Male Chimpanzees," Social Origins Laboratory, Department of Psychology, University of California, Berkeley, October 8, 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, Uganda, July 15, 2016

### **Contributed Talks & Posters**

- 2022 **Reddy RB**, Samuni L, Surbeck M. Bonobo mothers intervene less than chimpanzee mothers in their offspring's conflicts. 91<sup>st</sup> Annual Meeting of the American Association of Biological Anthropologists. Denver, CO
- 2022 Negrey JD, Emery Thompson M, Langergraber KE, Machanda Z, Mitani JC, Muller MN, Otali E, **Reddy RB**, Wrangham RW, & Goldberg TL. Viral infection and life history trade-offs in wild chimpanzees. 91<sup>st</sup> Annual Meeting of the American Association of Biological Anthropologists. Denver, CO
- 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. 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, Langerbraber 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

### Internal Talks

- 2022 "Variation in Maternal Support During Bonobo and Chimpanzee Development," Evolutionary Anthropology Talk Series, Department of Evolutionary Anthropology, Duke University, November 18, 2022
- 2022 "Nature and Function of Maternal Bonds During Bonobo and Chimpanzee Adolescence," Tuesday Lunch Symposium, Department of Human Evolutionary Biology, Harvard University, February 22, 2022
- 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 EXPERIENCE

- 2013- **Ngogo Chimpanzee Project**, Kibale National Park, Uganda, P.I.'s Drs. John Mitani, David Watts, & Kevin Langergraber, continuous fieldwork on wild chimpanzee social behavior
- 2023- **Lola ya Bonobo Sanctuary**, Kinshasa, Democratic Republic of Congo. Research on conservation education and bonobo behavior
- 2020- **Kokolopori Bonobo Research Project**, Kokolopori Bonobo Reserve, Tshuapa, Democratic Republic of Congo, P.I. Dr. Martin Surbeck, comparative fieldwork on wild bonobo social behavior
- 2020-2022 **Stress & Development Laboratory**, Department of Psychology, Harvard University, P.I. Dr. Katie McLaughlin, learning developmental neuroscience and clinical psychology approaches for understanding how life experiences impact mental health
- 2022 **The Alex Foundation Laboratory**, Somerville, Massachusetts, P.I. Dr. Irene Pepperberg, provide care and object-label practice to African grey parrots
- 2014-2022 **Infant Cognition Laboratory**, Department of Psychology, University of Michigan, P.I. Dr. Henry Wellman, developmental psychology research on child (and dog) 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 primates and pet dogs
- 2011 **Budongo Conservation Field Station**, Budongo Forest Reserve, Uganda  
Habituated and studied the behavior of wild chimpanzees

## WORKSHOPS

- 2019 Kundiman Fiction & Poetry Workshop, Fordham University, New York, NY, USA
- 2018 Diverse Intelligences Summer Institute, Templeton World Charity Foundation, University of St. Andrews, Scotland
- 2018 Sweetland Fellows Seminar, Gayle Morris Sweetland Center for Writing, University of Michigan, Ann Arbor, Michigan, USA
- 2016 Kundiman Fiction & Poetry Workshop, Fordham University, New York, NY, USA
- 2014 AnthroTree Phylogenetic Comparative Methods & Statistics Workshop, Duke University, Durham, North Carolina, USA

## **TEACHING EXPERIENCE**

### **Instructor-of-Record, University of Michigan**

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

### **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 EXPERIENCE**

- 2022 Megumi Kirby, Undergraduate Student, Harvard University
- 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, 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, University of Michigan
- 2017-2018 Liza Rosenfeld, Undergraduate Independent Study Student, 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**

### **Ad Hoc Reviewer**

*American Journal of Primatology, Behavioral Ecology & Sociobiology, Behavioural Processes, eLife, National Geographic Society Grants, L.S.B. Leakey Foundation Grants, National Science Foundation Biological Anthropology Grants, Nature Ecology & Evolution, PLoS One, Primates, Proceedings B,*

### **Harvard University, Department of Human Evolutionary Biology**

- 2021-2022     Diversity, Inclusion, & Belonging Committee  
                    Leader of subcommittee on mentoring
- 2020-2021     Diversity and Inclusion Task Force  
                    Working group leader on mentorship training in inaugural task force, member of outreach working group
- 2020-2022     Mind Brain Behavior Initiative Young Investigator Committee  
                    Organize talk series and other events

### **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

### **PUBLIC OUTREACH**

#### **Invited Public Talks**

- Upcoming     "Becoming Jane" Exhibit Opening Celebration Keynote, Natural History Museum of Utah, December 9, 2023
- 2023             "Where's the Love? The Secrets of Chimpanzee Relationships," The Leakey Foundation's Young Professionals Talk Series. February 9, 2023
- 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

### **Institutions & Ongoing Projects**

- 2015-             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-             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

**Classroom 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 Southwest Detroit Charter School, Detroit, MI, USA  
2014 Angell Elementary School, Ann Arbor, MI, USA