

# Stacy Rosenbaum, PhD

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## Research Interests

I am a biological anthropologist who studies the ecological causes and evolutionary consequences of social behavior. My primary field and laboratory research focuses on a wild population of endangered mountain gorillas (*Gorilla beringei*) in the Great Lakes region of Africa that has been monitored for more than 50 years. My research program integrates behavioral, demographic, genetic, ecological, and physiological data to gain a richer understanding of the evolution of mammals generally, and the hominid lineage specifically.

## Education

2014 PhD, Biological Anthropology, University of California-Los Angeles  
2010 MA, Biological Anthropology, University of California-Los Angeles  
2001 BA, Psychology, University of Wisconsin-Madison

## Academic Appointments

2026- Associate Professor  
Department of Anthropology, Northwestern University  
2025-2026 Associate Professor  
Department of Anthropology, University of Michigan  
2020-2025 Assistant Professor  
Department of Anthropology, University of Michigan  
2019-2020 Postdoctoral Research Associate  
Department of Biological Sciences, University of Notre Dame  
2017-2018 Postdoctoral Fellow  
Department of Anthropology, Northwestern University  
2015-2016 National Science Foundation Postdoctoral Fellow  
Institute for Mind and Biology, University of Chicago

## Peer-Reviewed Publications

2026 Brown E, Umuhoza R, Uwamahoro C, Umwizerwa A, Eckardt W, Stoinski TS, Cherney M, Auchus R, & **Rosenbaum S**. Increases in fecal testosterone precede increases in fecal dehydroepiandrosterone in wild male mountain gorillas. *Journal of Comparative Physiology B*, DOI: 10.1007/s00360-026-01702-y  
2026 Gettler LT, Dennis SH, **Rosenbaum S**, Agustin S, & Kuzawa CW. Fathers' caregiving time before and after the COVID-19 pandemic. *PLoS One*, 21(3) e0343636, DOI: 10.1371/journal.pone.0343636

- 2025 **Rosenbaum S**, Malani A, Lea A, Tung JT, Alberts SC, & Archie EA. Testing frameworks for early life effects: the developmental constraints and adaptive response hypotheses do not explain key fertility outcomes in wild female baboons. *Proceedings of the Royal Society B*, DOI: 10.1098/rspb.2024.2485
- 2025 Gettler LT, **Rosenbaum S**, Dennis S, Bechayda SA, & Kuzawa CW. Longitudinal evidence linking childhood energetics, maturation, skeletal muscle mass, and adult human male sociosexuality. *Royal Society Open Science*, 12:241713, DOI: 10.1098/rsos.241713
- 2024 Grebe NM, Schmidt J, Eckardt W, Umuhoza R, Mayo D, Stoinski TS, Santymire RS, & **Rosenbaum S**. Examining the dual hormone hypothesis in wild male mountain gorillas. *Hormones and Behavior*, 164(2024) 105588, DOI: 10.1016/j.yhbeh.2024105588
- 2024 Brown ER, Gettler LT, & **Rosenbaum S**. Effects of social environments on male primate HPG & HPA axis developmental programming. *Developmental Psychobiology*, 66, e22491, DOI: 10.1002/dev.22491
- 2024 Gettler LT, **Rosenbaum S**, Bechayda SA, McDade TW, & Kuzawa CW. Men's physical health and life history transitions in the Philippines: Evidence for 'marital selection' but not protective effects of partnering and fatherhood. *Social Science & Medicine*, 346, 116732, DOI: 10.1016/j.socscimed.2024.116732
- 2023 Grebe NM, Eckardt W, Stapinski TS, Umuhoza R, Santymire RM, & **Rosenbaum S**. An empirical comparison of several commercial enzyme immunoassays for the non-invasive assessment of adrenocortical and gonadal function in mountain gorillas. *General and Comparative Endocrinology*, 342, 114351, DOI: 10.1016/j.ygcen.2023.114351
- 2023 **Rosenbaum S** & Kuzawa CK. The promise of great apes as model organisms for understanding the downstream consequences of early life experiences. *Neuroscience and Biobehavioral Reviews*, 152, 105240, DOI: 10.1016/j.neubiorev.2023.105240
- 2023 Malani A, Archie EA, & **Rosenbaum S\***. Conceptual and analytical approaches for modeling the developmental origins of inequality. *Philosophical Transactions B*, 378(1883), 20220306, DOI: 10.1098/rstb.2022.0306
- 2023 Morrison RE, Eckardt W, Stoinski TS, & **Rosenbaum S\***. Cumulative early-life adversity does not predict reduced adult longevity in wild gorillas. *Current Biology*, 33(11), 2307-2314, DOI: 10.1016/j.cub.2023.04.051.
- 2022 Grebe N, Hirwa JP, Stoinski TS, Vigilant L, & **Rosenbaum S**. Mountain gorillas maintain strong affiliative biases for maternal siblings despite high male reproductive skew and extensive exposure to paternal kin. *eLife*, 11, e80820, DOI: 10.7554/eLife.80820
- 2022 Gettler LT, **Rosenbaum S**, Kuo PX, Sarma MS, Bechayda SA, McDade TW, & Kuzawa CW. Evidence for an adolescent sensitive period to family experiences influencing adult male testosterone production. *Proceedings of the National Academy of Sciences*, 119(23), e2202874119, DOI: 10.1073/pnas.2202874119
- 2022 **Rosenbaum S#** & Silk JB#. Pathways to paternal care in primates. *Evolutionary Anthropology*, 31(5), 245-262, DOI: 10.1002/evan.21942

\*Senior and corresponding author

#Authors contributed equally

- 2022 **Rosenbaum S**, Kuzawa CW, McDade TW, Bechayda SA, & Gettler LT. Neither environmental unpredictability nor harshness predict reliance on alloparental care among families in Cebu, Philippines. *Development and Psychopathology*, 34(2), 734-754, DOI: 10.1017/S0954579421001711
- 2021 **Rosenbaum S**, Eckardt W, Stoinski TS, Umuhoza R, Kuzawa CW, & Santymire, RM. Group structure, but not dominance rank, predicts fecal androgen metabolite concentrations of wild male mountain gorillas (*Gorilla beringei beringei*). *American Journal of Primatology*, 83(8), e23295, DOI: 10.1022/ajp.23295.
- 2021 **Rosenbaum S**, Kuzawa CW, McDade TW, Avila J, Bechayda SA, & Gettler LT. Fathers' care in context: 'facultative,' flexible fathers respond to work demands and child age, but not to alloparental help, in Cebu, Philippines. *Evolution and Human Behavior*, 42(6), 534-546, DOI: 10.1016/j.evolhumbehav.2021.05.003
- 2021 Zeng S, **Rosenbaum S**, Archie EA, Alberts S, & Li F. Causal mediation analysis for sparse and irregular longitudinal data. *Annals of Applied Statistics*, 15(2), 747-767, DOI: 10.1214/20-AOAS1427
- 2020 **Rosenbaum S**, Zeng S, Campos FA, Gesquiere LR, Altmann J, Alberts SC, & Archie EA. Social bonds do not mediate the relationship between early adversity and adult glucocorticoids in wild baboons. *Proceedings of the National Academy of Sciences*, 117(33), 20052-20062, DOI: 10.1073/pnas.2004524117
- 2020 Lea A<sup>#</sup> & **Rosenbaum S**<sup>#</sup>. Understanding how early life effects evolve: progress, gaps, and future directions. *Current Opinion in Behavioral Sciences*, 36, 29-35, DOI: 10.1016/j.cobeha.2020.06.006
- 2020 Gettler LT, Boyette A, & **Rosenbaum S**. Broadening perspectives on the evolution of human paternal care and fathers' effects on children. *Annual Review of Anthropology*, 49, 141-160, DOI: 10.1146/annurev-anthro-102218-011216
- 2020 Kuzawa CW, Adair L, Bechayda SA, Borja JRB, Carba DB, Duazo PL, Eisenberg DTA, Georgiev AV, Gettler LT, Lee NR, Quinn EA, **Rosenbaum S**, Rutherford J, Ryan C, McDade TW. Evolutionary life history theory as an organizing framework for cohort studies: Insights from the Cebu Longitudinal Health and Nutrition Survey. *Annals of Human Biology*, 47(2), 94-105, DOI: 10.1080/03014460.2020.1742787
- 2020 **Rosenbaum S**, Santymire RS, & Stoinski TS. Urinary androgens, dominance hierarchies, and social group structure among wild male mountain gorillas. In *Chimpanzees in context: a comparative perspective on behavior, cognition, conservation, and welfare* (Hopper L & Ross S, eds), pp 137-163. University of Chicago Press, Chicago IL.
- 2019 Eckardt W, Stoinski TS, **Rosenbaum S**, & Santymire RS. Social and ecological factors alter stress physiology of Virunga mountain gorillas (*Gorilla beringei beringei*). *Ecology & Evolution*, 9(9), 5248-5259, DOI: 10.1002/ece3.5115
- 2019 Gettler LT, Kuo P, **Rosenbaum S**, Avila J, McDade T, & Kuzawa CW. Sociosexuality, testosterone, and life history status: prospective associations and longitudinal changes among men in Cebu, Philippines. *Evolution & Human Behavior*, 42(2), 249-258, DOI: 10.1016/j.evolhumbehav.2018.11.001
- 2018 **Rosenbaum S**, Vigilant L, Kuzawa CW, & Stoinski TS. Caring for infants is associated with increased reproductive success for male mountain gorillas. *Scientific Reports*, 8(1), 15223, DOI: 10.1038/s41598-018-33380-4

- 2018 **Rosenbaum S** & Gettler LT. With a little help from her friends (and family) I: the ecology and evolution of non-maternal care in mammals. *Physiology & Behavior*, 193, 1-11, DOI: 10.1016/j.physbeh.2017.12.025
- 2018 **Rosenbaum S** & Gettler LT. With a little help from her friends (and family) II: non-maternal caregiving behavior and physiology in mammals. *Physiology & Behavior*, 193, 12-24, DOI: 10.1016/j.physbeh.2017.12.027
- 2018 **Rosenbaum S**, Gettler LT, McDade T, Augustin S, & Kuzawa CW. Does a man's testosterone "rebound" as dependent children grow up, or when pairbonds end? A test in Cebu, Philippines. *American Journal of Human Biology*, 30(6), e23180, DOI: 10.1002/ajhb.23180
- 2018 **Rosenbaum S**, Gettler LT, McDade T, Belarmino NM, & Kuzawa CW. The effects of collection and storage conditions in the field on salivary testosterone, cortisol, and slgA values. *Annals of Human Biology*, 45(5), 428-434, DOI: 10.1080/03014460.2018.1495263.
- 2016 **Rosenbaum S**, Vecellio V, & Stoinski TS. Observations of severe and lethal coalitionary attacks in wild mountain gorillas. *Scientific Reports*, 6(1), 37018, DOI: 10.1038/srep37018
- 2016 Eckardt W, Stoinski TS, **Rosenbaum S**, Umuhoza MR, & Santymire R. Validating faecal glucocorticoid metabolite analysis in the Virunga mountain gorilla using a natural biological stressor. *Conservation Physiology*, 4(1), cow029, DOI: 10.1093/conphys/cow029
- 2016 **Rosenbaum S**, Hirwa JP, Silk JB, Vigilant L, & Stoinski TS. Infant mortality risk and paternity certainty are associated with postnatal maternal behavior toward adult male mountain gorillas (*Gorilla beringei beringei*). *PLoS One*, 11(2), e0147441, DOI: 10.1371/journal.pone.0147441
- 2016 **Rosenbaum S**, Hirwa JP, Silk JB, & Stoinski TS. Relationships between adult male and maturing mountain gorillas (*Gorilla beringei beringei*) persist across developmental stages and social upheaval. *Ethology*, 122(2), 134-150, DOI: 10.1111/eth.12457
- 2015 **Rosenbaum S**, Maldonado-Chapparo AA, & Stoinski TS. Group structure predicts variation in proximity relationships between male-female and male-infant pairs of mountain gorillas (*Gorilla beringei beringei*). *Primates*, 57(1), 17-28, DOI: 10.1007/s10329-015-0490-2
- 2015 **Rosenbaum S**, Hirwa JP, Silk JB, Vigilant L, & Stoinski TS. Male rank, not paternity, predicts male-immature relationships in mountain gorillas, *Gorilla beringei beringei*. *Animal Behaviour*, 104, 13-24, DOI: 10.1016/j.anbehav.2015.02.025
- 2011 **Rosenbaum S**, Silk JB, & Stoinski TS. Male-immature relationships in multi-male groups of mountain gorillas (*Gorilla beringei beringei*). *American Journal of Primatology*, 73(4), 356-365, DOI: 10.1002/ajp.20905
- 2009 Stoinski TS, **Rosenbaum S**, Ngaboyamahina T, Vecellio V, Ndagijimana F, & Fawcett K. Patterns of male reproductive behaviour in multi-male groups of mountain gorillas: examining theories of reproductive skew. *Behaviour*, 146(9), 1193-1215, DOI: 10.1163/156853909X419992
- 2009 Stoinski TS, Vecellio V, Ngaboyamahina T, Ndagijimana F, **Rosenbaum S**, & Fawcett K. Proximate factors influencing dispersal decisions in male mountain gorillas, *Gorilla beringei*. *Animal Behaviour*, 77(5), 1155-1164, DOI: 10.1016/j.anbehav.2008.12.030

## Other Publications

- 2026 Valenta K, Grebe NM, Kelly T, Applebaum JW, Stern A, Traff J, Satishchandran S, **Rosenbaum S**, Lantigua V, & Lee A. The effect of chronic, latent *Toxoplasma gondii* infection on human behavior: testing the parasite manipulation hypothesis in humans. *bioRxiv*, DOI: 10.64898/2026.03.16.712071
- 2025 Silk JB & **Rosenbaum S**. Animal behavior: Female power and leverage in gorilla societies. *Current Biology* (invited dispatch), 35, R799-R818, DOI: 10.1016/j.cub.2025.07.001
- 2025 Kuzawa CW, **Rosenbaum S**, & Gettler LT. No need for tiers to explain the ecological predictors of human life history strategies. *Behavioral and Brain Sciences* (invited commentary), 48:e112, DOI:10.1017/S0140525X25100848
- 2018 **Rosenbaum S**. Offspring defense. In *Encyclopedia of Evolutionary Psychological Science* (Shackelford TK & Weekes-Shackelford VA, eds). Springer, Cham. DOI: 10.1007/978-3-319-16999-6\_1904-1

## Publications Under Review (if no preprint is posted, available upon request)

- Ben Mocha Y, Woith M, de Gialluly SS, Bruscagnin L, Pipper L, Kestel N, Hex S, Bechayda SA, Chaudhary N, Clarke CMK, Finn K, Garber PA, Gettler LT, Pilastro A, Quintana R, Radford AN, Richner H, **Rosenbaum S**, Santos ESA, & Griesser M. Allonursing: its prevalence, functions, and hypotheses across mammals and human cultures. *bioRxiv*, DOI: <https://doi.org/10.64898/2026.01.10.698751>
- Morrison RE, Eckardt W, McFarlin S, Stoinski TS, & **Rosenbaum S**. Early life adversity has minimal long-term consequences for social behavior in mountain gorillas. (In post-revision review at *Proceedings of the Royal Society B*)
- Rosenbaum S** & Malani A. Accounting for the life history structure of fitness in tests for adaptive reproductive acceleration. (In post-revision review at *Philosophical Transactions of the Royal Society B*)
- Rosenbaum S**, Grebe N, & Silk JB. Distribution of genetic paternity in primate groups. *bioRxiv*, DOI: <https://doi.org/10.64898/2026.04.02.716091>

## Funding

### Grants

- 2024 National Institute on Aging (NIA/NIH) R01 (co-I; \$280,051; #1R01AG087961)
- 2021 NIH Animal Models for the Social Dimensions of Aging Research Network Pilot Grant (PI; \$10,000; #NIH R24 AG065172)
- 2016 NSF Innovation Corps Grant (PI; \$50,000; #TIP 1632492)
- 2015 NSF/University of Chicago Polsky Center Innovation Corps Grant (PI; \$2,500)
- 2011 NSF Doctoral Dissertation Improvement Grant (PI; \$14,427; #SBE 1122321)
- 2011 Wenner-Gren Foundation Dissertation Fieldwork Grant (PI; \$20,000; #201101446)
- 2011 Wenner-Gren Foundation Osmundsen Initiative Grant (PI; \$5,000; #201101446/8352)
- 2010 Leakey Foundation Research Grant (PI; \$13,897)
- 2009 UCLA Institute for Social Research Grant (PI; \$6,000)

#### Grants on which I am co-PI with a graduate student trainee

- 2026 Leakey Foundation Research Grant (\$11,685)
- 2025 NSF Doctoral Dissertation Improvement Grant (\$31,443)
- 2024 NSF Doctoral Dissertation Improvement Grant (\$31,428)
- 2024 NSF Doctoral Dissertation Improvement Grant (\$31,500)
- 2024 Leakey Foundation Research Grant (\$19,977)
- 2023 Leakey Foundation Research Grant (\$19,797)

#### Fellowships

- 2026 Simons Foundation Pivot Fellowship (\$198,647; #SFI-PD-00016028)
- 2014 NSF Interdisciplinary Postdoctoral Fellowship (\$197,512; #SBE 1405101)
- 2013 UCLA Dissertation Year Fellowship (\$20,000)
- 2009 NSF Graduate Research Fellowship (\$90,000)
- 2009 UCLA Graduate Research Mentorship Fellowship (\$18,000)
- 2008 UCLA Anthropology Departmental Fellowship (\$18,000)
- 2000 Wisconsin/Hilldale Undergraduate/Faculty Research Fellowship (\$3,000)

#### **Invited Talks (non-conference)**

- 2026 Evolutionary Studies Program Seminar Series, SUNY Binghamton
- 2025 UCLA Center for Behavior, Evolution, & Culture Speaker Series
- 2025 Department of Anthropology, Northwestern University
- 2024 Socioecology of Social Aging Working Group meeting, UC-Santa Barbara
- 2024 Newsome Festschrift talk series, Department of Neurobiology, Stanford University
- 2022 NYU Berlin/Humboldt University
- 2022 Department of Evolutionary Anthropology, Duke University
- 2021 Department of Biology, Queens College CUNY
- 2020 Department of Biology, Bangor University
- 2020 Department of Anthropology, Dartmouth College
- 2020 Department of Psychology, University of Michigan
- 2019 Department of Ecology & Evolution, University of Chicago
- 2018 Department of Anthropology, University of Michigan
- 2018 Department of Biological Sciences, University of Notre Dame
- 2018 Institute for Human Origins, Arizona State University
- 2018 Department of Human Evolutionary Biology, Harvard University
- 2018 Department of Anthropology, Washington University
- 2017 Network Science Institute, Indiana University
- 2016 A. Watson Armour Research Seminar Series, Chicago Field Museum
- 2016 Department of Anthropology, Northwestern University
- 2015 Department of Anthropology, University of Wisconsin-Madison
- 2015 Max Planck Institute for Evolutionary Anthropology
- 2015 Early Career Colloquium in Bioscience Crossing Disciplines, Clarkson University
- 2015 Department of Anthropology, University of Missouri-Columbia
- 2015 Lincoln Park Zoo Conservation & Science Seminar Series, Chicago IL
- 2015 Comparative Behavioral Biology Seminar Series, University of Chicago
- 2014 Primate Research Institute, Kyoto University, Japan
- 2014 Wildlife Research Center, Kyoto University, Japan
- 2014 Center for Behavior, Evolution, and Culture, UCLA

- 2013 Department of Anthropology, Baruch College, New York NY
- 2012 University of Wisconsin-Madison Arboretum
- 2012 Lincoln Park Zoo Conservation & Science Seminar Series, Chicago IL
- 2011 Karisoke Research Center Seminar Series, Musanze Rwanda
- 2005 Leakey Foundation Annual Fellows' Dinner, San Francisco CA

## Teaching & Mentoring

### Instructor of Record

- How Humans Evolved* (undergraduate; University of Michigan)  
-Years taught: 2020 x 2, 2021, 2023 x 2, 2026
- Introduction to Primate Behavior* (undergraduate; University of Michigan)  
-Years taught: 2021, 2022, 2024, 2025
- Introduction to Human Evolution* (undergraduate; UCLA)  
-Years taught: 2013, 2014
- Advanced Primate Behavior* (undergrad & grad; University of Michigan)  
-Years taught: 2021, 2025
- Lab Methods in Primate Behavioral Ecology* (undergrad & grad; University of Michigan)  
-Years taught: 2020, 2023 x 2
- The Social Components of Fitness* (graduate; University of Michigan)  
-Years taught: 2021
- Grant Writing for the Life and Social Sciences* (graduate; University of Michigan)  
-Years taught: 2020, 2022, 2024, 2025
- Biological Anthropology: An Overview* (graduate; University of Michigan)  
-Years taught: 2025

### Teaching award nominations

- 2026 Individual Award for Outstanding Contributions to Undergraduate Education (UMich College of LSA)
- 2025 Wilbert McKeachie Award for Excellence in Lecture-based Teaching (UMich Department of Psychology)
- 2025 Individual Award for Outstanding Contributions to Undergraduate Education (UMich College of LSA)
- 2024 Individual Award for Outstanding Contributions to Undergraduate Education (UMich College of LSA)

## Conference Presentations (last 5 years)

- 2026 Miller M, Nsabimana A, Eckardt W, Stoinski TS, & **Rosenbaum S**. Group-level activity data conceals consequential individual variation in behavioral thermoregulation in mountain gorillas. *Midwest Primate Interest Group 2026 meeting*, Notre Dame, IN
- 2026 Gategeko A, Eckardt W, Tuyisingize D, McFarlin S, Ngabikwiye M, **Rosenbaum S**, & Wiper S. The potential of individual golden monkey (*Cercopithecus mitis kandti*) identification for research and conservation. *Midwest Primate Interest Group 2026 meeting*, Notre Dame, IN

- 2026 Brown ER, Umwizerwa A, Eckardt W, Stoinski TS, & **Rosenbaum S**. The relationship between social group composition and the ontogeny of sexual and competitive behaviors in wild male mountain gorillas. *Midwest Primate Interest Group 2026 meeting*, Notre Dame, IN
- 2026 Wurtz S, Raux Z, Miller M, Emery-Thompson M, McFarlin S, Eckardt W, Stoinski TS, **Rosenbaum S**, & Bailey-Steinitz R. Variation in creatinine concentration, specific gravity and muscle mass across captivity status and age in wild mountain gorillas and captive lowland gorillas. *Midwest Primate Interest Group 2026 meeting*, Notre Dame, IN
- 2026 Raux Z, Wurtz S, Umuhoza R, Uwamahoro C, Bailey-Steinitz R, Eckardt W, Stoinski TS, **Rosenbaum S**, & Miller M. Variation in Triiodothyronine concentrations across environments and social groups in wild mountain gorillas. *Midwest Primate Interest Group 2026 meeting*, Notre Dame, IN
- 2026 Morrison R, Derby R, Martignac V, Eckardt W, McFarlin S, Sandel A, Stoinski TS, & **Rosenbaum S**. The impact of maternal and paternal loss on gorilla survival and sociality. *11<sup>th</sup> European Federation for Primatology Meeting*, Montpellier, France
- 2026 Brown ER, Umwizerwa A, Niyonizye N, McFarlin S, Umuhoza R, Uwamahoro C, Stoinski TS, Eckardt W, & **Rosenbaum S**. Variation in silver coloration development and testosterone in wild male mountain gorillas. *American Association of Biological Anthropologists 95<sup>th</sup> Annual Meeting*, Denver CO
- 2025 **Rosenbaum S** & Rizzo S. Validation of non-invasive measurement of cognitive decline biomarkers in great apes. *2025 International Gorilla Workshop*, Detroit MI
- 2025 Brown ER, Umwizerwa A, Niyonizye N, McFarlin S, Umuhoza R, Uwamahoro C, Stoinski TS, Eckardt TS, & **Rosenbaum S**. Silver coloration development in wild male mountain gorillas. *2025 International Gorilla Workshop*, Detroit MI
- 2025 Miller M, Nsabimana A, Eckardt W, Stoinski TS, & **Rosenbaum S**. Gorilla thermoregulation research: enhancing conservation and welfare in a warming climate. *2025 International Gorilla Workshop*, Detroit MI
- 2025 **Rosenbaum S** & Rizzo S. Validation of non-invasive measurement of cognitive decline biomarkers in great apes. *American Society of Primatologists 47<sup>th</sup> Annual Meeting*, Chicago IL
- 2025 Miller M, Nsabimana A, Eckardt W, Stoinski TS, & **Rosenbaum S**. Surviving the extremes: how mountain gorillas use sweating and shivering to thermoregulate in Volcanoes National Park, Rwanda. *American Society of Primatologists 47<sup>th</sup> Annual Meeting*, Chicago IL
- 2025 Brown ER, Umuhoza R, Uwamahoro C, Umwizerwa A, Stoinski TS, Eckardt W, & **Rosenbaum S**. Age-related patterns of fecal androgen production in wild male mountain gorillas. *American Society of Primatologists 47<sup>th</sup> Annual Meeting*, Chicago IL
- 2025 Miller M, Nsabimana A, Eckardt W, Stoinski TS, & **Rosenbaum S**. Hot streaks and cold peaks: behavioral thermoregulation strategies of mountain gorillas living in Volcanoes National Park, Rwanda. *30<sup>th</sup> International Primatological Society Congress*, Antananarivo Madagascar
- 2025 Wiseman-Jones LM, Ishimwe D, Umuhoza R, Uwamaho C, Eckardt W, **Rosenbaum S**, Stoinski TS, & Milich KM. Encounters with snares and between social units increases physiological stress in mountain gorillas. *30<sup>th</sup> International Primatological Society Congress*, Antananarivo Madagascar



- 2025 (Invited talk) **Rosenbaum S** & Silk JB. Pathways to paternal care in primates. *American Association of Biological Anthropologists 94<sup>th</sup> Annual Meeting* (symposium in honor of Professor Sarah Hrdy), Baltimore MD
- 2025 (Invited talk) Gettler LT, Dennis S, **Rosenbaum S**, Lee N, Bechayda S, & Kuzawa CW. Paternal care and the pandemic: longitudinal insights from the Philippines. *American Association of Biological Anthropologists 94<sup>th</sup> Annual Meeting*, Baltimore MD
- 2025 Santamaria AM, Contreras P, **Rosenbaum S**, Devlin M, & Gregg B. A life history perspective on maternal reproductive investment and skeletal health. *Human Biology Association 50<sup>th</sup> Annual Meeting*, Baltimore MD
- 2025 Miller M, Faida E, Nsabimana A, Tuyisingize D, Eckardt W, Stoinski TS, & **Rosenbaum S**. Microclimate temperature variation in mountain gorilla habitat in Volcanoes National Park, Rwanda: new data on the current environmental range of an endangered great ape. *American Association of Biological Anthropologists 94<sup>th</sup> Annual Meeting*, Baltimore MD
- 2025 Brown ER, Umuhoza R, Uwamahoro C, Umwizerwa A, Stoinski TS, Eckardt W, & **Rosenbaum S**. Age-related patterns of fecal androgen production in wild male mountain gorillas. *American Association of Biological Anthropologists 94<sup>th</sup> Annual Meeting*, Baltimore MD
- 2024 (Invited talk) **Rosenbaum S**, Eckardt W, Stoinski TS, & Morrison R. Why are wild mountain gorillas so resilient to early life adversity? *American Society of Primatologists 46<sup>th</sup> Annual Meeting*, Riviera Maya, Mexico
- 2024 (Invited talk) **Rosenbaum S**, Kuzawa CW, Avila J, Bechayda SA, & Gettler LT. Evolutionary hypotheses in the context of a large-scale society: allomaternal caregiving dynamics among families in Cebu, Philippines. *Society for Personality and Social Psychology 2024 Convention (Evolutionary Psychology Preconference)*, San Diego CA
- 2024 Mayo D, Feldblum JT, Gilby IC, & **Rosenbaum S**. A training-testing approach for the comparison of dominance rank reliability and its application to primate social systems. *American Association of Biological Anthropologists 93<sup>rd</sup> Annual Meeting*, Los Angeles CA
- 2023 Morrison R, Eckardt W, Stoinski TS, & **Rosenbaum S**. Cumulative early life adversity does not predict reduced adult longevity in wild gorillas. *Primate Society of Great Britain 2023 summer meeting*, Cambridge UK
- 2023 (Invited talk) Morrison R, Eckardt W, Stoinski TS, & **Rosenbaum S**. The influence of early life adversity on sociality in wild gorillas. *Behaviour 2023 (International Council of Ethologists) Conference*, Bielfeld Germany
- 2023 Grebe NM, Eckardt W, Schmidt J, Mayo D, Umuhoza R, Santymire RM, Stoinski TS, & **Rosenbaum S**. Examining the dual hormone hypothesis in wild male mountain gorillas. *American Association of Biological Anthropologists 92<sup>nd</sup> Annual Meeting*, Reno NV
- 2022 Schmidt J, **Rosenbaum S**, Eckardt W, Umuhoza R, Mayo D, Santymire RM, Stoinski TS, & Grebe NM. Testing the dual hormone hypothesis in wild male mountain gorillas (*Gorilla beringei*). *Midwest Primate Interest Group 2022 meeting*, Ann Arbor, MI
- 2022 Brown ER, Eckardt W, Stoinski TS, & **Rosenbaum S**. Examination of silver back coloration in male mountain gorillas (*Gorilla beringei*). *Midwest Primate Interest Group 2022 meeting*, Ann Arbor, MI

- 2022 Grebe NM, Eckardt W, Stoinski TS, Umuhoza R, Santymire RS, & **Rosenbaum S**. An empirical comparison of popular enzyme immunoassays for the non-invasive assessment of adrenocortical and gonadal function in mountain gorillas. *Midwest Primate Interest Group Annual Meeting*, Ann Arbor MI
- 2022 Morrison R, Colchero F, Eckardt W, Stoinski TS, & **Rosenbaum S**. Can social relationships buffer the effects of early life adversity in gorillas? *International Society for Human Ethology Congress*, Wurzburg, Germany
- 2022 Grebe NM, Hirwa JP, Stoinski TS, & **Rosenbaum S**. Inclusive fitness, age differences, and the dynamics of sibling relationships in mountain gorillas. *American Association of Biological Anthropologists 91<sup>st</sup> Annual Meeting*, Denver, CO.
- 2021 Eckardt W, Stoinski TS, Gillespie TR, **Rosenbaum S**, Umuhoza R, Mucyo JPS, Abavandimwe D, & Santymire RM. One decade of monitoring stress physiology in Virunga mountain gorillas: Key findings, lessons learned, and next steps. *International Congress for Conservation Biology*, Kigali, Rwanda
- 2021 Mies G, Miller MR, Schmidt J, Brown ER, Stoinski TS, & **Rosenbaum S**. Extracting cortisol metabolites from mountain gorilla fecal samples: comparison of lab versus field methods and ethanol versus methanol solutions. *Midwest Primate Interest Group 2021 meeting*, Chicago, IL
- 2021 Schmidt J, **Rosenbaum S**, Mies G, Miller MR, Eckardt W, Umuhoza R, Stoinski TS, & Brown ER. Comparison of fecal testosterone and DHEA metabolite concentrations in wild male mountain gorillas. *Midwest Primate Interest Group 2021 meeting*. Chicago, IL

## Service

### University and Departmental Service

- 2025-2026 UMich Dept of Anthropology Director of Undergraduate Studies
- 2025-2026 UMich Dept of Anthropology Awards Committee
- 2024-2026 UMich Dept of Anthropology Executive Committee
- 2024-2026 College of LSA Senate Assembly representative (long term alternate)
- 2023 UMich Dept of Anthropology bylaws review committee
- 2023 Biological Anthropology faculty representative for Responsible Conduct of Research and Scholarship (RCRS) graduate student training
- 2023 Assisted with the development of Global Michigan's "Safety Considerations for Independent Study & Field Research Abroad" manual
- 2022 UMich Dept of Anthropology curriculum review committee
- 2022-2026 UMich Evolution and Human Adaptation Program steering committee member
- 2021-2023 UMich Dept of Anthropology Collective Action Committee member
- 2021 Faculty advisor to UMich Bioanthro working group on increasing minority representation amongst undergraduate majors
- 2020-2021 UMich Evolution and Human Adaptation Program speaker series faculty organizer
- 2017-2018 Northwestern University Evolutionary and Ecological Approaches to Health & Development (E<sup>2</sup>HD) working group speaker series coordinator
- 2015-2017 Founded/coordinated monthly cross-Center reading group in the Conservation and Science Department at Lincoln Park Zoo
- 2014-2018 Lincoln Park Zoo Research Committee (institutional equivalent to IACUC)
- 2014 Lincoln Park Zoo Diversity & Inclusion Committee

### Editing & Reviewing

- 2022- Editorial Board Member, American Journal of Primatology
- 2022 Guest editor for *eLife*
- 2019-2021 Panel reviewer for the Wenner-Gren Foundation
- 2018 Special issue co-editor for *Physiology & Behavior*

Ad-hoc grant proposal reviewer for the National Science Foundation; Wenner-Gren Foundation; The Leakey Foundation; Polish National Science Council

Ad-hoc manuscript reviewer for Science; PNAS; Nature Human Behavior; eLife; Evolutionary Anthropology; Proceedings of the Royal Society B; Science Advances; Behavioral Ecology & Sociobiology; Current Opinion in Behavioral Sciences; Philosophical Transactions B; Royal Society Open Science; Animal Behaviour; Hormones & Behavior; Evolution, Medicine, & Public Health; Evolution and Human Behavior; Annals of the New York Academy of Sciences; Journal of Animal Ecology; Scientific Reports; iScience; PLoS One; Communications Biology; Biology Letters; Infant Behavior and Development; American Journal of Primatology; International Journal of Primatology; Ethology, Ecology, & Evolution; Primates; Folia Primatologica; Acta Amazonica; Journal of Wildlife Management; Frontiers in Ecology & Evolution; Zoo Biology

### Conferences & Meetings

- 2022 Co-organizer, Midwest Primate Interest Group annual meeting
- 2019 Symposium co-organizer: “Cross-taxa perspectives on behavior and developmental origins” for Animal Behavior Society meeting
- 2017 Co-organizer, Midwest Primate Interest Group annual meeting
- 2016 Symposium co-organizer: “Allomother - infant relationships across the Primate order: biomarkers, bonding, buffering, and other bidirectional effects” for American Association of Physical Anthropologists annual meeting
- 2014 UCLA campus organizer, California Workshop on Evolutionary Social Sciences
- 2010 UCLA campus organizer for multi-UC campus Evolutionary Perspectives on Human Behavior workshop

### Other Service

- 2014-2018 Scientific advisor and board member, Planet Lab youth citizen science initiative and digital learning platform startup
- 2012 Advisory participant and logistical organizer, planning meeting for new long-term, multi-site Grauer’s gorilla research program in Democratic Republic of Congo
- 2011 Karisoke Research Center representative to visiting International Reporting Project Fellows
- 2003 Karisoke Research Center administrative volunteer for Rwanda’s National Great Ape Symposium (GRASP) workshop

### **Synergistic Activities**

- 2022- Member of the NIA-funded Animal Models for the Social Dimensions of Health and Aging Research Network, a research initiative focused on utilizing animal models to study how social factors influence health and aging in humans.

- 2022- Started a non-invasive biomarker measurement lab at the Ellen DeGeneres Campus of the Dian Fossey Gorilla Fund in Kinigi, Rwanda capable of end-to-end sample processing and analysis. This represents a major expansion of research capacity at one of the world's longest-running field sites, enabling far more training and many more student research projects than was previously feasible.
- 2017-2020 Validated a high-performance liquid chromatography (HPLC) protocol for metabolite identification in mountain gorilla fecal samples, in collaboration with colleagues at the Smithsonian Conservation Biology Institute.
- 2015-2017 Conducted qualitative research on hurdles to implementation of innovative K-12 STEM curriculum via the NSF Innovation Corps program.
- 2015-2016 Developed a prolactin enzyme immunoassay (EIA) protocol for use with great ape urine in collaboration with a private sector company manufacturing a serum prolactin assay.
- 2012 Funded (via NSF grant)/facilitated international training opportunity (e.g. laboratory skills, statistics, public speaking) for research assistant, a Rwandan national. Trainee co-authored four scientific papers, completed a masters degree, and now holds a senior leadership position at an international conservation NGO.
- 2011- Set up biological sample processing lab at the Karisoke Research Center in Rwanda. To date the lab has preserved >25,000 urine and fecal samples using several protocols, for hormone and genetic paternity analysis in wild mountain gorillas. Results are used for large collaborative research projects at institutions in the US, Europe, and Africa.

## **Public Engagement (selected)**

### Podcast interviews

- 2023 Leakey Foundation Origin Stories podcast: [Fatherhood](#)
- 2023 Leakey Foundation Origin Stories podcast: [Motherhood](#)
- 2021 Evolutionary Parenting podcast: [From mountain gorillas to humans, what matters in fathering?](#)

### Public-facing writing

- 2023 The Conversation: [Resilient gorillas reveal clues about overcoming childhood misfortune](#)
- 2018 The Conversation: [The more male gorillas look after young, the more young they're likely to have](#)
- 2016 The Leakey Foundation blog: [Lay summary of PLoS One and Primates articles](#)
- 2016 Psychology Today: [Lessons about gendered behaviors from mountain gorillas](#)
- 2015 The Leakey Foundation blog: [Lay summary of Animal Behaviour article](#)

### Public-facing talks for children

- 2018 What do our genes do? (University of Chicago Laboratory School, Chicago IL)
- 2015 Using science to save endangered species (Resurrection High School, Chicago IL)
- 2014 The mountain gorillas of Rwanda (Center for Early Education, West Hollywood CA)

- 2013 What can animals' behavior teach us about saving them from extinction? (Crossroads Elementary School, Santa Monica CA)
- 2010 What can we learn about people from Rwanda's mountain gorillas? (Mt Horeb Primary Center, Mt Horeb WI)
- 2007 Science and the conservation of Africa's mountain gorillas (St Brendan's School, San Francisco CA)

#### Public-facing talks for adults

- 2017 Intersections of research, conservation, and teaching efforts at a long-term field site (Golden Apple Award for Teaching Excellence STEM education workshop, Chicago IL)
- 2016 Dian Fossey's gorillas 50 years on: research, conservation, and lessons learned (University of Chicago Lifelong Learning Speaker Series, Chicago IL)
- 2016 Fathers in the animal kingdom (Wine & Wildlife Speaker Series, Lincoln Park Zoo, Chicago IL)
- 2004 Karisoke Research Center: conservation, education, and research from 1967-2004 (Rwanda Office of Tourism and National Parks, Kigali Rwanda)

#### Other public engagement activities

- 2017 & 2018 Workshop co-organizer: "Savings Species with Feces." Taught 6<sup>th</sup>-8<sup>th</sup> grade girls from low-income and underrepresented backgrounds about STEM careers in conservation and behavioral science (Expanding Your Horizons Conference, Chicago IL)
- 2016 Mentor for Northwestern University's Science in Society Science Club program, teaching scientific skills and knowledge to at-risk youth (Chicago, IL)

### **Press Coverage (selected)**

#### English language coverage

[The Atlantic #1](#), [The Atlantic #2](#), [The Wall Street Journal](#), [BBC World Service](#), [BBC Earth](#), [Science #1](#), [Science #2](#), [Newsweek](#), [Scientific American](#), [Ars Technica](#), [Smithsonian Magazine](#), [NPR](#), [Quartz](#), [The Independent](#)

#### Coverage in other languages

[National Geographic Japan](#), [France Culture](#), [Radio Berlin](#), [Dutch News Radio](#), [Weekendavisen \(Denmark\)](#)

### **Professional Memberships**

American Society of Naturalists; American Society of Primatologists; Animal Behavior Society; American Association of Biological Anthropologists; Human Behavior and Evolution Society; Human Biology Association; International Society of Wildlife Endocrinology

### **Languages**

French: Proficient