

Jacob A Feder, PhD

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PROFESSIONAL APPOINTMENTS

- 2025-Present **Postdoctoral Researcher Scholar**, School of Human Evolution and Social Change, Arizona State University
- 2023-2025 **NSF SBE Postdoctoral Research Fellow**, School of Human Evolution and Social Change & Institute of Human Origins, ASU

EDUCATION

- 2023 **Stony Brook University**, Stony Brook, NY
PhD, Anthropological Sciences, Advisor: Dr. Amy Lu
- 2019 **Stony Brook University**
MA, Anthropological Sciences
- 2015 **Wesleyan University**, Middletown, CT
BA, Biology and Music, Honors in General Scholarship

RESEARCH INTERESTS

social evolution, life history evolution, social network analysis, comparative research methods, sexual conflict, reproductive strategies

EXTERNAL FUNDING

- 2023 **National Science Foundation**, SBE Postdoctoral Research Fellowship. The ecology and evolution of social interdependence in primates, \$160,000.
- 2020 **National Science Foundation**, Doctoral Dissertation Research Improvement Grant. Patterns and outcomes of social bonds in juvenile geladas, \$28,152.
- 2020 **The Leakey Foundation**, Research Grant. Patterns and outcomes of social bonds in juvenile geladas, \$14,960.
- 2019 **Animal Behavior Society**, Graduate Student Research Grant. The influence of older offspring on sibling social and immune development, \$1000.
- 2019 **Sigma Xi, The Scientific Research Society**, Grants-in-Aid of Research. The influence of older offspring on sibling social and immune development, \$1000.
- 2018 **American Society of Primatologists**, Research Grant. The potential benefits of older offspring on sibling development in wild geladas, \$1500.

INTERNAL FUNDING

- 2022 Presidential Dissertation Completion Fellowship, \$11,250
- 2017 IDPAS Student Research Award, Stony Brook University, \$700
- 2016 Graduate Council Fellowship, Stony Brook University, \$50,000
- 2013 College of the Environment Research Fellowship, Wesleyan University, \$4000

PUBLICATIONS (* indicates graduate student mentee, ^ indicates co-first authorship)

ORCID: 0000-0002-3087-7298

- In revision **Feder JA**, Alberts SC, Archie EA, Arlet ME, Baniel A, Beehner JC..., Kamilar JM, Silk JB. Disparate social structures are underpinned by distinct social rules across a primate radiation. In review at Proc Natl Acad Sci USA.
- 2025 **Feder JA**, Strum SC, Silk JB. Social patterns underlying a new group formation in olive baboons. PLoS ONE 20:e0333541
- 2025 **Feder JA**, Beehner JC, Bergman TJ, Snyder-Mackler N, Lu A. Conditional benefits of social integration in wild female geladas. Proc R Soc B Biol Sci 292:20250491.
- 2025 **Feder JA**, Schneider-Crease IA, Beehner JC, Bergman TJ, Seyfarth RM, Silk JB, Snyder-Mackler N, Lu A. Reproductive ageing patterns persist despite high infanticide risk in chacma baboons and geladas. Roy Soc Open Sci 12:241210.
- 2022 Schneider-Crease IA, **Feder JA**, Baniel A, McCann C, Haile AA, Abebe B..., Lu A. Urinary neopterin reflects immunological variation linked to age, helminth parasitism, and the microbiome in a wild primate. Scientific Reports 12:21307.
- 2022 **Feder JA**, Beehner JC, Baniel A, Bergman TJ, Snyder-Mackler N, Lu A. Social predictors of maturation in female geladas. Behav Ecol 33:654-664.
- 2021 Tinsley Johnson E[^], **Feder JA**[^], Lu A, Bergman TJ, Snyder-Mackler N, Beehner JC. The Goldilocks Effect: female geladas in mid-sized units have higher fitness. Proc R Soc B Biol Sci 288: 20210820.
- 2021 Lu A, **Feder JA**, Snyder-Mackler N, Bergman TJ, Beehner JC. Male-mediated maturation in wild geladas. Curr Biol 31:214-219.
- 2019 Lu A, Petruccio L, Carrera S, **Feder J**, Schneider-Crease I, Snyder-Mackler N. Developmental responses to early life adversity: evolutionary and mechanistic perspectives. Evol Anthropol 28:249-266.
- 2019 **Feder JA**, Lu A, Koenig A, Borries C. The costs of competition: injury patterns in 2 Asian colobine monkeys. Behav Ecol 30:1242-1253.

PRESS COVERAGE

- 2025 ASU News. [Decades of data show age plays an important role in primate reproduction.](#)
- 2021 Stony Brook University News. [Study of Wild Geladas Reveals Mid-Size Group Living is Best for Survival and Fitness.](#)
- 2021 TBR News Media. [SBU's Feder, Lu discover Goldilocks group size for gelada monkey females.](#)

PRESENTATIONS

WITH PUBLISHED ABSTRACTS

- 2026 **Feder JA**, Silk JB. Rank and natal attraction differentially shape vocal greetings and subsequent interactions in two baboon species. Forthcoming.
- 2024 **Feder JA**, Schneider-Crease IA, Beehner JC, Bergman TJ, Snyder-Mackler N, Lu A. Reproductive aging patterns in wild female geladas. Am J Phys Anthropol S77:50.
- 2022 **Feder JA**, Beehner JC, Snyder-Mackler N, Lu A, Bergman TJ. Social precursors and fitness outcomes of fission in geladas. Am J Phys Anthropol S73:56.

- 2022 Carrera S, Baniel A, **Feder JA**, Snyder-Mackler N, Bergman TJ, Beehner JC, Lu A. Female geladas accelerate weaning in larger groups – possibly to reduce infanticide risk. *Am J Phys Anthropol* S73:29.
- 2020 **Feder JA**, Beehner JC, Lu A. Maturation responses to male takeovers in female geladas. *Am J Phys Anthropol* S69:83-84.
- 2020 Beehner JC, Baniel A, **Feder JA**, Bergman TJ, Lu A. The “Hoo-Haa effect”: An unfortunate name for a dramatic effect in female reproduction. *Am J Phys Anthropol* S69:23.
- 2019 **Feder JA**, Beehner JC, Lu A. Social influences on reproductive development and maturation in female geladas. *Am J Phys Anthropol* S68:72.
- 2019 Koenig A, **Feder JA**, Lu A, Borries C. Risk of injury in two Asian colobines. *Am J Phys Anthropol* 168 S68:129.
- 2018 **Feder JA**, Borries C, Koenig A, Lu A. Effects of age, sex, and reproductive state on injury in Phayre’s leaf monkeys. *Am J Primatol* 80 S1:13.

WITHOUT PUBLISHED ABSTRACTS

- 2025 **Feder JA**. Disparate social structures are underpinned by distinct social rules across the African papionins. Behaviour, Kolkata, India.
- 2024 **Feder JA**, Strum SC, Silk JB. Social patterns underlying a group fission in olive baboons (*Papio anubis*). Animal Behavior Society, London, Ontario, Canada.
- 2023 **Feder JA**, Beehner JC, Bergman TJ, Snyder-Mackler N, Lu A. Conditional benefits of social integration in wild female geladas. Southwest Association of Biological Anthropologists, Tucson, AZ.
- 2023 **Feder JA**, Beehner JC, Bergman TJ, Snyder-Mackler N, Lu A. Conditional benefits of social integration in wild female geladas. Animal Behavior Society, Portland, OR.
- 2022 **Feder JA**, Beehner JC, Bergman TJ, Snyder-Mackler N, Lu A. Fitness costs and benefits of social integration in wild female geladas. Northeastern Evolutionary Primatologists, Buffalo, NY.
- 2021 Tinsley Johnson E, **Feder JA**, Lu A, Bergman TJ, Snyder-Mackler N, Beehner JC. The Goldilocks Effect: female geladas in mid-sized units have higher fitness. Animal Behavior Society, Virtual Conference.
- 2019 **Feder JA**, Beehner JC, Lu A. Mechanisms of male-mediated maturation in wild geladas. Northeastern Evolutionary Primatologists, Amherst, MA.
- 2013 **Feder JA**, Clark RE, Singer MS. The effects of an ant-sapfeeder mutualism on food web dynamics. Department of Biology, Wesleyan University.

PRESENTATION HONORS

- 2023 Finalist, 3-Minute Thesis, Alan Alda Center for Communicating Science, Stony Brook University
- 2022 AABA Patricia Whitten Prize for Best Podium Presentation in Primatology
- 2019 Best Podium Presentation, Northeastern Evolutionary Primatologists Meeting

INVITED TALKS

- 2025 The ecology and evolution of social relationships in the African Papionins. Stony Brook University, Stony Brook, NY.
- 2024 The ecology and evolution of social interdependence in primates. Evolution of Social Complexity Series, Arizona State University, Tempe, AZ.
- 2019 Social, reproductive, and immune development in gelada monkeys. Department of Anthropology, Central Connecticut State University, New Britain, CT.

RESEARCH EXPERIENCE

- Aug 2023-Present **Comparative social network analyses:** aggregated and analyzed grooming data for the Comparative Analysis of Papionin Societies.
- Aug 2022-Present **Database development:** Simien Mountains Gelada Research Project (SMGRP).
- May 2018-Present **Laboratory and data analysis:** Urinary neopterin, secretory IgA, and fecal glucocorticoids in wild geladas.
- May 2017-Dec 2018 **Field research:** SMGRP, Simien Mountains National Park, Ethiopia.
- Sep 2016-May 2019 **Data entry and analysis:** Injury risk in two Asian colobines.
- Sep-Dec 2015 **Data entry:** Anthropology, American Museum of Natural History, NY.
- Jun-Aug 2015 **Research internship:** Chimpanzee social behavior, Chimp Haven, LA.
- Nov 2012-May 2014 **Laboratory and field research:** The effects of an ant-sapfeeder mutualism on food web dynamics, Wesleyan University, CT.

TEACHING EXPERIENCE

At Stony Brook University

As Lecturer

Spring 25 EBH 331 Hormones and Behavior

As Instructor of Record

Fall 20 ANP 120 Introduction to Biological Anthropology

Fall 20 ANP 475 Undergraduate Teaching Practicum I

As Laboratory Instructor

Fall 17,19,21 EBH 230 Computer-Based Biostatistics

As Teaching Assistant

Spring 22 ANT 102 What Makes Us Human?

Fall 17,19,21 EBH 230 Computer-Based Biostatistics

Spring 20 ANP 220 Controversies in Human Biology & Behavior

Spring 19 EBH 331 Hormones and Behavior

Spring 18,21 ANP 120 Introduction to Biological Anthropology

Spring 17 ANP 362 Evolution of Social Complexity

Fall 16 ANT 260 How We Eat

At Wildlife Conservation Society

Summer 14 Teaching Fellow Central Park Zoo

At Wesleyan University

As Peer Mentor

Fall 12

BIO 181

Principles of Biology I

RESEARCH SKILLS AND TRAINING

Statistical: R, social network analysis (R packages 'igraph'), Bayesian analyses using Stan in R (i.e., 'rstanarm' and 'brms')

Laboratory: Enzyme immunoassays (EIA)

Field: Mental Health Wilderness First Aid (MHWFA) Certification

PROFESSIONAL ORGANIZATIONS

2018-Present Animal Behavior Society

2018-Present American Association of Physical Anthropologists

2017-2019 Sigma Xi, The Scientific Research Society

2017-2019 American Society of Primatologists

COMMUNITY OUTREACH

2025 Professional Development, SHESC, Arizona State University, AZ
Led a professional development Q&A for ASU graduate students

2025 Community Lectures, Phoenix, AZ
Presented my research to senior communities throughout the Phoenix area

2020-2022 STEP Biological Anthropology, Stony Brook University, NY
Developed an biological anthropology course for high school students

2018-2020 Bookworm Biology, Stony Brook University & Central Islip Library, NY
Taught and devised programs for students ages 7-11

2018 Save the Simiens, Simien Mountains National Park, Ethiopia
Participated in clean-up days with local park residents

2017 Conservation Classes, Simien Lodge, Simien Mountains National Park
Led crafts, games, and a presentation with Ethiopian students

2011-2014 Wesleyan Science Outreach, Middletown Public Schools, CT
Guided elementary students through basic scientific demonstrations

REVIEWER

Animal Behaviour, Applied Animal Behaviour Science, Behavioral Ecology and Sociobiology, Biology Letters, Communications Biology, Current Biology, Folia Primatologica, Frontiers in Ecology and Evolution, Movement Ecology, PeerJ, Royal Society Open Science

UNIVERSITY SERVICE

2022-2023 Executive Committee Student Member, IDPAS

2022-2023 Treasurer, Behavioral Ecology Group

2021-2022 Anthropology MA Admissions Committee Member

2020-2021 Senator, Stony Brook Graduate Student Organization

2019-2022 President, Behavioral Ecology Group, Stony Brook University

2017-2018 Secretary, Behavioral Ecology Group, Stony Brook University