

Sam K. Patterson

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Arizona State University
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Education

- 2021 Ph.D., Arizona State University, Anthropology
- 2016 M.A., Arizona State University, Anthropology
- 2013 B.S., University of Michigan, Ann Arbor, Evolutionary Anthropology
Honors with Distinction, James B. Angell Scholar

Academic Positions

- 2021-pr Postdoctoral Fellow
Department of Anthropology, New York University
Mentor: Dr. James Higham
- 2021 Research Specialist
School of Human Evolution and Social Change, Arizona State University
Mentor: Dr. Benjamin Trumble
- 2018-20 Teaching Associate
School of Human Evolution and Social Change, Arizona State University
- 2017-21 Research Associate
Institute of Human Origins, Arizona State University
School of Human Evolution and Social Change, Arizona State University
- 2014-19 National Science Foundation Graduate Research Fellow
School of Human Evolution and Social Change, Arizona State University

Fellowships, Awards, and Grants

External

- 2014-19 National Science Foundation Graduate Research Fellowship
- 2017 National Science Foundation Dissertation Research Improvement Grant
- 2017 Leakey Foundation Research Grant

Internal

- 2020 SHESC Summer Writing Fellowship
- 2019 Donald H. Morris Award for Outstanding Doctoral Student in Evolutionary
Anthropology

- 2016 SHESC Graduate Research Grant, Arizona State University
 2015 SHESC Student Research Grant, Arizona State University
 2015 CLAS Graduate Excellence Award, Arizona State University
 2013 Undergraduate Service Award, Department of Anthropology, University of Michigan
 2013 John Patrick Kennedy Award, LSA Honors Program, University of Michigan
 2013 Derrow/Goodman Fund, Department of Anthropology Fellowships Committee, University of Michigan

Travel Grants

- 2015-19 Pollitzer Student Travel Award, American Association of Physical Anthropologists (x2)
 2016-20 GPSA Travel Grant, Arizona State University (x5)

Publications

- Accepted **Patterson, S.K.**, Hinde, K., Bond, A.B., Trumble, B.C., Strum, S.C., & Silk, J.B. Effects of early life adversity on maternal effort and glucocorticoids in wild olive baboons. (accepted) *Behavioral Ecology and Sociobiology*
- In prep **Patterson, S.K.**, Lu, A., Hinde, K., Bond, A.B., Trumble, B.C., Strum, S.C., & Silk, J.B. Maternal behavior and glucocorticoids shape offspring behavioral development and growth. *In prep.*
- In prep **Patterson, S.K.**, Strum, S.C., & Silk, J.B. Early life adversity affects sociality and interaction style in wild female olive baboons. *In prep.*
- 2021 **Patterson, S.K.**, Strum, S.C., & Silk, J.B. Resource competition shapes female-female aggression in olive baboons. (2021) *Animal Behaviour*, 176: 23-41.
- 2017 Silk, J.B., Roberts, E.R, Barrett, B.J., **Patterson, S.K.**, & Strum, S.C. Female-male relationships influence the form of female-female relationships in olive baboons, *Papio anubis*. (2017) *Animal Behaviour*, 131: 89-98.
- 2016 Sandel, A.A., Miller, J.A., Mitani, J.C., Nunn, C.L., **Patterson, S.K.**, & Garamszegi, L.Z. Assessing sources of error in comparative analyses of primate behavior: intraspecific variation in group size and the social brain hypothesis. (2016) *Journal of Human Evolution*, 94: 126-133.

- 2014 **Patterson, S. K.**, Sandel, A. A., Miller, J. A., & Mitani, J. C. Data quality and the comparative method: The case of primate group size. (2014) *International Journal of Primatology*: 1-14.

Conference Presentations

- 2021 **Patterson, S.K.**, Strum, S.C., & Silk, J.B. Early life adversity affects sociality and interaction style in wild female olive baboons. (2021). Animal Behavior Society Virtual Meeting.
- 2021 **Patterson, S.K.**, Hinde, K., Bond, A.B., Trumble, B.C., Lu, A., Strum, S.C., & Silk, J.B. Maternal behavior and glucocorticoid levels shape infant development in wild olive baboons. (2021). American Association of Physical Anthropologists.
- 2020 **Patterson, S.K.**, Strum, S.C., & Silk, J.B. Effects of early life adversity on maternal behavior and physiology in wild olive baboons. (2020). Early Life Adversity Meeting for early career researchers, Virtual Conference.
- 2020 **Patterson, S.K.**, Strum, S.C., & Silk, J.B. Early life adversity exerts lasting effects on maternal behavior and physiology. (2020). Animal Behavior Society Virtual Meeting.
- 2020 **Patterson, S.K.**, Strum, S.C., & Silk, J.B. Effects of early life adversity and novel foraging circumstances on maternal behavior. (2020). American Association of Physical Anthropologists.
- 2019 **Patterson, S.K.**, Strum, S.C., & Silk, J.B. Effects of early life adversity and novel foraging circumstances on maternal behavior. (2019). Southwestern Association of Biological Anthropologists Meeting.
- 2016 **Patterson, S.K.**, Roberts, E.K., Strum, S.C., & Silk, J.B. Ties that bind: social bonds among female baboons reflect tension between maternal kinship and ties to different males. (2016) Joint meeting of the International Primatological Society and the American Society of Primatologists. Invited oral presentation for symposium: Towards a better understanding of social convergence between cetaceans and primates. (Oral Presentation)
- 2015 **Patterson, S. K.**, Roberts, E. K., Strum, S. C., & Silk, J. B. The structure of social networks in olive baboons (*Papio anubis*). (2015) Southwestern Association of Biological Anthropologists Meeting. (Poster presentation)
- 2015 **Patterson, S. K.**, Bergman, T. J., Cheney, D. L., R. Seyfarth, R. M., & Beehner, J. C. Rises in testosterone predict rises in dominance rank for

- male chacma baboons. (2015) American Association of Physical Anthropologists. (Oral presentation)
- 2013 Sandel A. A., Miller, J. A., and **Patterson, S. K.** Revisiting the social brain hypothesis: Incorporating within-species group size variation into a comparative analysis. (2013) American Association of Physical Anthropologists (Poster presentation)
- 2013 **Patterson, S. K.** The comparative method in evolutionary biology: the effects of intraspecific variation and data quality. (2013) University of Michigan Anthropology Honors Symposium. Ann Arbor, Michigan. (Poster presentation)
- 2011 Barrett, L., Mule, V., and **Patterson, S. K.** Ranging behavior and activity budgets of the endangered Central American squirrel monkey (*Saimiri oerstedii*). (2011) Midwest Primate Interest Group (MPIG) Conference. Kent, Ohio. (Poster presentation)
- 2011 **Patterson, S. K.** Development of Locomotion in Wild Chimpanzees. (2011) University of Michigan Undergraduate Research Opportunities Program (UROP) Symposium. Ann Arbor, Michigan. (Poster presentation)

Research Experience

- 2018-21 Lab work at the Evolutionary Biodemography and Comparative Lactation Lab, Center for Evolution and Medicine, Arizona State University
Ph.D. dissertation: Enzyme immunoassays to assess glucocorticoids in olive baboon feces
Postdoc: Alzheimer's dementia and CVD among the Tsimane
- 2016-17 Fieldwork at Uaso Ngiro, Laikipia, Kenya
Ph.D. dissertation: 15 months of behavioral, hormonal, and photographic data collection on olive baboons
- 2015 Fieldwork at Uaso Ngiro, Laikipia, Kenya
Ph.D. dissertation pilot study on olive baboons
- 2014 Fieldwork at Uaso Ngiro, Laikipia, Kenya
Research assistant, olive baboons
PIs: Dr. Joan Silk, Dr. Shirley Strum, Dr. Eila Roberts
- 2013 Fieldwork at Filoha, Awash National Park, Ethiopia
Research assistant, hamadryas baboons
PIs: Dr. Joan Silk, Dr. Larissa Swedell, Dr. Eila Roberts

- 2013 Research Assistant, University of Michigan
Examined the challenge hypothesis in chacma baboons
PI: Dr. Jacinta Beehner
- 2012-13 Honors Thesis, University of Michigan
The comparative method in evolutionary biology: the effects of
intraspecific variation and data quality
PI: Dr. John Mitani
- 2012 National Science Foundation: International Research Experiences for
Students, Masai Mara, Kenya
Research assistant, spotted hyenas
PI: Dr. Kay Holekamp
- 2011 Fieldwork at Osa Conservation's Piro Research Station, Costa Rica
Field school; pilot study on squirrel monkeys
- 2010-11 Undergraduate Research Opportunities Program, University of Michigan
Research assistant, videography of Ngogo chimpanzees
PIs: Dr. John Mitani and Dr. Lauren Sarringhaus

Mentoring and Professional Service

- 2020-21 Lesson plan creator for the Origin Stories podcast, The Leakey
Foundation
- 2019-pr Team member and Reviewer, [Anthro Illustrated](#)
- 2015-21 Research Grant Reviewer, Graduate and Professional Student
Association, Arizona State University
- 2014-20 Undergraduate Apprenticeship Program, Arizona State University
Mentor undergraduate students in research projects
- 2014-pr LGBTQQIAA diversity group of the American Association of Physical
Anthropologists
- 2019 Guest lecture, On being a primatologist at Mesa Community College
- 2018-19 Gateway Early College High School Professional Networking Breakfast
Met with 12th grade students who aim to be First Generation College
students
- 2016 Culture Change Workshop, Arizona State University
Co-organizer, Culture change workshop on harassment/misconduct

- 2014-16 DANTA Website
A contributing author to the DANTA Association for Conservation of the
Tropics outreach blog
- 2013 Academic Tutor, University of Michigan Athletics
Course: Primatology

Professional Membership

- 2014-pr American Association of Physical Anthropologists
- 2015-pr International Primatological Society
- 2020-pr Animal Behavior Society
- 2021-pr International Society of Nonbinary Scientists