

John C. “Jack” Winans

Interdepartmental Doctoral Program in Anthropological Sciences
Stony Brook University
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Education

Stony Brook University, Ph.D. Candidate, Anthropological Sciences 2018 - *Pres.*
Dissertation: “Social responsiveness in female savannah baboons: Individual heterogeneity, group-level outcomes, and fitness consequences.”
Dissertation Committee: Catherine Markham (Advisor), Susan Alberts, Andreas Koenig, Heather Lynch
GPA: 3.95

George Washington University, B.S. Biological Anthropology 2014 - 2018
Thesis: “Mixed evidence for ecological risk aversion in wild juvenile chimpanzees (*Pan troglodytes schweinfurthii*) at Gombe National Park, Tanzania.”
Thesis Advisors: Carson Murray & Kaitlin Wellens
GPA: 3.96, Summa Cum Laude

Research Program

I am a behavioral ecologist focused on the **evolution of social behavior**. Group-living animals interact heterogeneously with one another and variation in the strength, stability, and tenor of these interactions shapes emergent group-level attributes. These group-level attributes in turn have powerful consequences for individual fitness and behavioral optima. I interpret animal social behavior through the lens of this dynamic interplay between “bottom-up” effects of individual heterogeneity on group-level patterns and “top-down” effects of group-level phenomena on individual experiences, sometimes termed **individual-to-society feedbacks**. Specifically, I investigate how patterns of **collective decision-making**, **competitive regimes**, and **movement** arise from social processes and impact fitness in wild animals. To do so, I combine information afforded by **long-term monitoring** of individually recognized animals with high resolution data gained from **animal-mounted bio-loggers** and **automated image-based tracking technology**.

Grants, Fellowships, & Awards (° *Internal*, ♦ *External*)

Animal Behavior Society Graduate Student Travel Award (\$380) ♦	2022
Wenner-Gren Foundation Dissertation Fieldwork Grant (\$8,701) ♦	2022 - 2023
NSF Doctoral Dissertation Research Improvement Grant (\$29,652) ♦	2022 - 2024
Lewis and Clark Fund for Exploration and Field Research (\$3,800) ♦	2021
Animal Behavior Society Student Research Grant (\$1,500) ♦	2021
American Society of Primatologists Small Research Grant (\$1,500) ♦	2020
NSF Graduate Research Fellowship (\$138,000) ♦	2018 - 2023
Graduate Council Fellowship, Stony Brook University (\$50,000) °	2018 - 2024

Peer-Reviewed Publications

Wellens, K.R., Lee, S.M., **Winans, J.C.**, Pusey, A.E., & Murray, C.M. (2022). Female chimpanzee associations with male kin: Trade-offs between inbreeding avoidance and infanticide protection. *Animal Behaviour* 190: 115-123.

Published Conference Presentation Abstracts

Winans, J.C., Wellens, K.R., Lonsdorf, E.V., & Murray, C.M. (2018). Mixed evidence for ecological risk aversion in juvenile wild chimpanzees (*Pan troglodytes schweinfurthii*) at Gombe National Park, Tanzania. *American Journal of Primatology* 80(S1): 61. (Podium).

Conference Presentations without Published Abstracts

Winans, J.C., Alberts, S.C., & Markham, A.C. (2022). High lactational synchrony decreases survival odds and increases infanticide risk for infant baboons. 2022 Annual Meeting of the Animal Behavior Society. San José, Costa Rica. (Podium).

Winans, J.C., Alberts, S.C., & Markham, A.C. (2021). High synchrony of female lactation within groups decreases survival odds for infant savannah baboons. 7th Meeting of the Northeastern Evolutionary Primatologists (NEEP), Boston, MA. (Podium).

Winans, J.C., & Markham, A.C. (2020). Social factors predict global and local measures of female olive baboon (*Papio anubis*) spatial position. 6th Meeting of the Northeastern Evolutionary Primatologists (NEEP), Virtual. (Podium).

Winans, J.C., & Markham, A.C. (2019). Predictors of spatial proximity in wild female savannah baboons: The effect of habitat openness. 5th Meeting of the Northeastern Evolutionary Primatologists (NEEP), Amherst, MA. (Poster).

Invited Talks

“Integrating long-term observation with new technologies to understand the evolution of animal social behavior.” (2022). 10XBeta. Brooklyn, NY.

“Integrating long-term observation with new technologies to understand the evolution of animal social behavior.” (2022). Mighty Business’ “Lunch and Learn” series. Brooklyn, NY.

Teaching Experience

Co-Instructor Spring 2023
Stony Brook University
▪ Science and Technology Entry Program (STEP): Introduction to Biological Anthropology

Teaching Assistant 2018 - 2019
Stony Brook University
▪ ANT 260: How We Eat Fall 2019
▪ ANT 102: What Makes Us Human? Spring 2019
▪ EBH 200: The Evolution of Human Behavior Fall 2018

Field Experience

Amboseli Basin, Kenya (Amboseli Baboon Research Project) Fall 2022
▪ Deploy 3 GPS/accelerometer collars on adult female savannah baboons (*Papio cynocephalus*)

- Implement novel, image-based method to simultaneously record high-resolution movement data of multiple neighboring savannah baboons during focal animal samples of 15 adult female baboons

Amboseli Basin, Kenya (Amboseli Baboon Research Project) Summer 2021

- Deploy 7 GPS/accelerometer collars on adult female savannah baboons
- Introduce novel, noninvasive, image-based method of tracking baboon movements to long-running field site

Amboseli Basin, Kenya (Amboseli Baboon Research Project) Summer 2019

- Video record an adult female savannah baboon fitted with a GPS/accelerometer collar in all major behavioral states to ground truth machine-learning methods of behavioral state classification from accelerometer data

Amboseli Basin, Kenya (Amboseli Baboon Research Project) Spring 2019

- Test noninvasive field methods of collecting socio-spatial data on five wild groups of savannah baboons

Primate Studies Field School, Rwanda (University of Arizona) Summer 2016

- Observational data collection on wild mountain gorillas (*Gorilla beringei*), olive baboons (*Papio anubis*), and vervet monkeys (*Chlorocebus pygerythrus*)
- Fecal sample collection from wild olive baboons (*Papio anubis*)

Laboratory Experience

Research Assistant Spring 2020

Competition Within and Between Primate Social Groups (Collaborative research project, P.I.s Catherine Markham & Susan Alberts)

Amboseli Baboon Research Project

- Data collection on wild savannah baboons (*Papio cynocephalus*) including fecal samples and GPS/accelerometer collar data
- Data processing & management at SBU

Senior Research Assistant 2016 - 2018

Primate Behavioral Ecology Lab (P.I. Carson Murray)

Center for the Advanced Study of Human Paleobiology, George Washington University

- Manage online SQL database housing 40 years of chimpanzee behavioral data
- Mentor incoming lab members and teach data translation & entry protocols
- Coordinate lab meetings & activities

Research Assistant 2015 - 2016

Primate Behavioral Ecology Lab (P.I. Carson Murray)

Center for the Advanced Study of Human Paleobiology, George Washington University

- Translate Kiswahili data on mother-infant chimpanzee behaviors into English
- Participate in group discussions of rationale and metrics behind ongoing lab projects
- Present relevant behavioral ecology articles at weekly journal clubs

Research Assistant 2014
Social Cognition Lab (P.I. Francys Subiaul)
Speech, Language and Hearing Sciences, George Washington University

- Perform cognitive learning tests with children aged 3 - 5 and record data
- Recruit participants and inform parents about experimental procedures
- Entertain and engage children between trials

Mentoring Experience

Graduate student mentoring:
Jessica Rivera, University of Zurich 2021 - 2022
Kalyan Garigapati, Stony Brook University 2021 - *Pres.*

Undergraduate student mentoring:
Megan McNamara, Stony Brook University 2023 - *Pres.*
Nicole Pyun, Stony Brook University 2019

Outreach

Social Media Volunteer 2019 - 2020
Interdepartmental Doctoral Program in Anthropological Sciences, Stony Brook University

- Participate in creation and maintenance of the IDPAS Twitter account
- Coordinator: Katheryn Twiss

Member 2018 - *Pres.*
Shutterbug Science

- Science education outreach
- Coordinator: Catherine Markham

Service

Ad hoc Reviewer 2022 - *Pres.*
Proceedings of the Royal Society B: Biological Sciences

Master's Admissions Committee Member 2020 - 2021
Department of Anthropology, Stony Brook University

Treasurer 2019 - 2022
Behavioral Ecology Group, Stony Brook University

Memberships

American Society of Primatologists, Animal Behavior Society, International Primatological Society, Phi Beta Kappa, Sigma Xi