Sofia C. Carrera

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University of Michigan Department of Psychology 530 Church St., Ann Arbor, MI 48104

Education

2016 - present	PhD Candidate, Biopsychology, University of Michigan Advisor: Jacinta Beehner Committee: Amy Lu, Ben Dantzer, Andrew Marshall, Eduardo Villamor Dissertation: "Early-life adversity: Maternal effects in a wild primate"
2018	MS, Psychology, University of Michigan
2015	BS with distinction, Ecology and Evolutionary Biology, Yale University Advisor: Richard Bribiescas Thesis: "Diurnal variation of testosterone in wild adult male owl monkeys of Formosa, Argentina"
2014	Organization for Tropical Studies, Duke University Study abroad program in South Africa – Field Biology

Field Experience

Field Experie	rieid Experience		
2019 - present	Simien Mountain Gelada Research Project, Ethiopia PIs: Jacinta Beehner & Thore Bergman PhD dissertation fieldwork on geladas		
2017 - 2019	Simien Mountain Gelada Research Project, Ethiopia <u>PIs</u> : Jacinta Beehner & Thore Bergman Pilot fieldwork on geladas (May - July 2017; November 2017 - March 2019)		
2015 - 2016	Owl Monkey Project PI: Eduardo Fernandez-Duque Field research assistant for wild owl monkey behavioral endocrinology (Argentina: September 2015 - January 2016) Research assistant for captive owl monkey olfactory communication and pair-bonding behavior (Bastrop, TX: May 2015 - August 2015)		
2014	Organization for Tropical Studies, Kruger National Park, South Africa NSF International Research Experience for Students (IRES) intern – Biodiversity analysis of small mammals in relation to elephant populations (June - July 2014)		
2013	Asociación Fauna Forever, Puerto Maldonado, Peru PI: Chris Kirby Head research intern for behavioral observations of eight wild neotropical primate species (May - July 2013)		

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Laboratory E	Laboratory Experience		
2016 - present	Core Assay Facility, University of Michigan PI: Jacinta Beehner Gelada female glucocorticoid analysis across pregnancy and lactation Validation of an EIA for glucocorticoid metabolites in gelada fecal samples (March 2018) Validation of an EIA for testosterone metabolites in gelada fecal samples (September 2018)		
2018	Endocrinology Laboratory, German Primate Center <u>PI</u> : Michael Heistermann Measuring testosterone metabolites in gelada fecal samples (March 2018)		
2013 - 2015	Yale Reproductive Ecology Laboratory, Yale University PIs: Richard Bribiescas & Claudia Valeggia BS thesis work analyzing wild owl monkey fecal testosterone samples		
2014	Veterinary Wildlife Services, Kruger National Park, South Africa Research assistant validating a cortisol ELISA kit for African buffalo fecal samples (July - August 2014)		
2013	Hull Lab, Yale University PI: Pincelli Hull Head student researcher identifying foraminifera species in deep ocean sediments (January - December 2013)		
Fellowships			

<u>Fellowships</u>

2016 - 2021	NSF Graduate Research Fellowship Program (GRFP)
2014	NSF International Research Experience for Students (IRES)
2013	Thomas C. Barry Travel Fellowship
2013 - 2015	Michele Dufault Endowment Fund for Yale Women in Science

Grants and Awards

2019	Leakey Foundation, Research Grant (\$14,910)
2019	University of Michigan, Leonard Small Award (\$7,200)
2019	University of Michigan – Psychology , Pillsbury Graduate Research Award (\$1,000)
2019	Animal Behavior Society, Diversity Travel Award (\$145)
2018	University of Michigan, Rackham Professional Development Grant (\$400)
2018	University of Michigan – African Studies Center (\$2,000)
2017	University of Michigan, Rackham Graduate Student Research Grant (\$1,500)

Peer-Reviewed Publications

In review	Carrera SC , Sen S, Heistermann M, Lu A, & Beehner, JC. Low rank and primiparity increase fecal glucocorticoid metabolites across gestation in wild geladas.
2019	Lu A, Petrullo L, Carrera SC , Feder J, Schneider-Crease I, & Snyder-Mackler N. Developmental responses to early life adversity: Evolutionary and mechanistic perspectives. <i>Evolutionary Anthropology</i> , 2019. https://doi.org/10.1002/evan.21791

Published Abstracts

2019	Carrera SC , Lu A, & JC Beehner. In a non-seasonal primate, off-peak births require more time foraging during pregnancy. 56th Annual Conference of the Animal Behavior Society, Chicago, IL.
2018	Carrera SC , Lu A, & JC Beehner. Variation in time to weaning in wild geladas. 87th Annual Meeting of the American Association of Physical Anthropologists, Austin, TX.
2016	Carrera SC, Corley MK, Bribiescas RG, Valeggia C, & E Fernandez-Duque. Investigating how collection time affects fecal testosterone in a cathemeral species: <i>Aotus azarae</i> . Joint meeting of the International Primatological Society and the American Society of Primatologists, Symposium on Owl Monkeys, Chicago, IL.

Science Communication

•	2019 - present	Scientist Spotlights – Southeast Michigan Teach children how to use an ethogram for animal behavior research
	2017 - present	Simien Lodge Annual Conservation Classes, Ethiopia Help teach local children about conservation and geladas
	2019	Nerd Nite – Ann Arbor District Library Presented my dissertation research at a local bar
	2018	Portal to the Public: University of Michigan Museum of Natural History Science Communication Fellowship Participated in multiple workshops to design an activity for science communication
	2018	ComSciCon-MI Participated in a 2-day workshop to improve oral and written science communication skills
	2018	Females Excelling More in Math, Research, and the Sciences, University of Michigan Co-designed and co-led activities for young girls to learn about animal behavior
	2016	Huron Valley High School, Ann Arbor, MI Presented a class on primate behavior and endocrinology research to high school students
	2015	Splash at Yale University, New Haven, CT Developed and co-taught a class on animal behavior for high school students

Mentoring	
2017 - present	Undergraduate Research Opportunity Program – University of Michigan Research mentor for undergraduate students working in the Core Assay Facility (CAF)
2017 - present	Association for Women in Science – University of Michigan Group leader – in charge of leading discussions on various topics about being a woman in STEM
Teaching	
Spring 2018	Graduate Student Instructor (GSI): Introduction to Biopsychology – University of Michigan Lead grader for the entire class; held discussion sections to introduce new material and led review sessions for exams
Fall 2017	GSI: Statistical Modeling and Data Visualization in R – University of Michigan Designed and led lab sections to provide students with more information and practice using the R programming language; lead grader for all assignments; held problem-solving sessions
Service	
2019	Conservation Physiology Peer reviewer
2018	Biopsychology area 10-year review Student committee member
Additional Pr	resentations
2015	Yale Ecology and Evolutionary Biology Symposium, Yale University Diurnal variation of testosterone in wild adult male owl monkeys of Formosa, Argentina
2015	Paskus-Mellon Forum, Jonathan Edwards College, Yale University Diurnal variation of testosterone in wild adult male owl monkeys of Formosa, Argentina
2014	NSF International Research Experience for Students (IRES) Symposium, South Africa Drivers of small mammal communities in Kruger National Park, South Africa
2014	Organization for Tropical Studies Symposium, South Africa Understanding, preventing, and mitigating vervet - human conflict in Kruger National Park, South Africa