Eli D. Strauss

Department of Integrative Biology Michigan State University straus46@msu.edu http://straussed.github.io

Research Interests

Social behavior, social evolution, dominance hierarchies, fission-fusion dynamics, quantitative methods in behavioral ecology

Education

2012 - 2018	Candidate for dual PhD at Michigan State University
	Integrative Biology and Ecology, Evolutionary Biology & Behavior
2007 - 2011	B.A. at University of California Berkeley (cum laude)

Awards and Honors

atwaras and Honors		
2017	Best Student Talk at Göttinger Freilandtage, Germany (\$180)	
2012	NSF Graduate Research Fellowship (\$138,000)	
2012	University Distinguished Fellowship (\$80,000)	
2011	Undergraduate Thesis in Cognitive Science with Highest Honors	

Publications

Peer-Reviewed

Strauss ED, Holekamp KE. (In revision) Identifying stable and dynamic rank relationships in longitudinal dominance hierarchies. *Journal of Animal Ecology*.

Smith JE, Lehmann KDS, Montgomery TM, **Strauss ED**, Holekamp KE. (2017) Insights from long-term field studies of mammalian carnivores. *Journal of Mammalogy*, 98:631-641.

Holekamp KE, **Strauss ED**. (2016) Aggression and dominance: An interdisciplinary overview. *Current Opinion in Behavioral Sciences*, 12:44-51.

Strauss ED, Schloss KB, Palmer SE. (2013) Color preferences change after experience with liked/disliked colored objects. *Psychonomic Bulletin & Review*, 20:935-943.

Schloss KB, **Strauss ED**, Palmer SE. (2013) Object color preferences. *Color Research & Application*, 38:393-411.

Book Chapters

Jones SC, **Strauss ED**, Holekamp KE. (2015) "Ecology of African Carrion." *Carrion Ecology, Evolution and Their Applications*. CRC Press.

Published Conference Proceedings

Johnson AE, **Strauss ED**, Pickett R, Adami C, Dworkin I, Goldsby HJ. (2014) More bang for your buck: Quorum-sensing capabilities improve the efficacy of suicidal altruism. *ALIFE 14: Proceedings of the Fourteenth International Conference on the Synthesis and Simulation of Living Systems*, New York, NY.

Manuscripts in preparation

- **Strauss ED,** Holekamp KE. Coalitionary alliances, rank reversals, and fitness among females in a matriarchal society.
- **Strauss ED,** Holekamp KE. The causes and consequences of variability in maternal rank inheritance.

Invited Seminars

2017. **Strauss ED,** Holekamp KE. The dynamics of social status in a long-term study of nepotistic spotted hyenas. Talk presented at University of Nebraska, Lincoln.

Conference Posters and Presentations

- 2017. **Strauss ED**, Holekamp KE. Social bonds predict dynamics of dominance status in societies of spotted hyenas. Talk presented at *Göttinger Freilandtage*.
- 2017. **Strauss ED**, Holekamp KE. Social rank reversals in a long-term study of spotted hyenas. Talk presented at *Animal Behavior Society Meeting*.
- 2017. **Strauss ED**, Holekamp KE. The structure of nepotistic dominance hierarchies: The role of kinshp and dominance. Talk presented at *BEACON Center for Evolution in Action*.
- 2016. **Strauss ED**, Holekamp KE. Social rank reversals in a long-term study of spotted hyenas. Talk presented at *MSU EEBB Symposium*.
- 2014. **Strauss ED**, Holekamp KE. Intraspecific variation in the society of a social carnivore. Poster presented at *Animal Behavior Society Meeting*.
- 2014. Mirmomeni M, Hintze A, **Strauss ED**, Adami C. The collective hunting game: A new game to model social behavior in animals. Talk presented at *Evolution*.
- 2011. **Strauss ED**, Schloss KB, Palmer SE. 2011. The effects of imagined experiences of objects on preferences for colors. Talk presented at *Annual Meeting of the Vision Science Society*.
- 2010. **Strauss ED**, Schloss KB, Palmer SE. 2010. The good, the bad, and the ugly: Effects of object exposure on color preferences. Poster presented at *10th Annual Meeting of the Vision Science Society*.
- 2010. Schloss KB, Fortenbaugh FC, **Strauss ED**, Palmer SE. 2010. CSI Berkeley Episode II: Perceptual organization and selective attention. Talk presented at *10th Annual Meeting of the Vision Science Society*.
- 2009. Schloss KB, Fortenbaugh FC, **Strauss ED**, Palmer SE. 2009. CSI Berkeley Episode II: Perceptual organization and selective attention. Talk presented at *4th Annual Configural Processing Consortium*.

Research Grants and Fellowships

2017	BEACON Travel Fellowship (\$1000)
2017	MSU EEBB Travel Fellowship (\$600)
2016	MSU IBIO Shaver Award (\$1,125)
2016	MSU EEBB Summer Fellowship (\$1,800)
2014	MSU EEBB Summer Fellowship (\$1,800)
2013	MSU EEBB Travel Fellowship (\$400)
2012	BEACON Top-up Fellowship (\$3,000)
2010	UC Berkeley Undergraduate Research Apprenticeship Summer Award
2009	UC Berkeley Undergraduate Research Apprenticeship Summer Award

Past Res	earch Ex	perience
-----------------	----------	----------

2011 - 2012	Research Assistant at Mara Hyena Research Project, Kenya (Dr. Kay Holekamp)
2010 - 2011	Research Assistant in Animal Behavior at UC Berkeley (Dr. Eileen Lacey)
2008 - 2011	Research Assistant in Visual Aesthetics Lab at UC Berkeley (Dr. Stephen Palmer)

Mentoring

2015 - 2018	Mentored six students conducting behavioral data extraction and analysis
2014 - 2015	Mentored five students in field methods for behavior through NSF IRES program
2013 - 2014	Mentored two students from underrepresented minorities through SROP program

Teaching

2016 (spring)	Evolution (Discussion Instructor)
2015 - 2017	Behavioral Ecology of African Mammals (Lead Instructor)

Service and Outreach

2017 - 2018	MSU Hacky Hour founder & organizer (coding group for graduate students)
2017 - 2018	MSU EEBB Recruitment Liaison
2017 - 2018	MSU Science Festival volunteer
2016 - 2018	Biology on Tap founder & organizer (public outreach event for adults)
2016 - 2018	MSU EEBB Quantitative Methods Committee (revamping stats curriculum)
2015 - 2016	MSU IBIO Seminar Committee
2014 - 2015	Weekly public presentations about spotted hyenas at Serena Lodge in Kenya
2014 - 2015	MSU Hyena Project field blog
2013 - 2014	MSU Museum Darwin Day volunteer