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Email • jbeehner@umich.edu
Gelada Research Website • <http://geladaresearch.org>
Capuchin Research Website • <https://sites.lsa.umich.edu/capuchin/>
Laboratory Website • <http://www.lsa.umich.edu/psych/research/caf/>
Google Scholar Profile • <http://scholar.google.com/citations?user=hLCMecAAAAJ&hl=en>

EDUCATION

2003 Ph.D. Biological Anthropology, Washington University, St. Louis, MO
1994 B.S. Biology (*Magna cum laude*), Boston College, Chestnut Hill, MA

ACADEMIC POSITIONS

2013 – present Associate Professor, Departments of Psychology and Anthropology
University of Michigan, Ann Arbor, MI.

2017 – present Co-director (with Drs. Thore Bergman, Marcela Benítez, Elizabeth Tinsley Johnson),
Capuchins at Taboga, Costa Rica.

2005 – present Co-director (with Drs. Thore Bergman, Amy Lu, Noah Snyder-Mackler), *Simien
Mountains Gelada Research Project*, Simien Mountains National Park, Ethiopia.

2013 – present Co-director (with Dr. Thore Bergman), *Evolution and Human Adaptation Program*
University of Michigan, Ann Arbor, MI.

2007 – present Director, Core Assay Facility / Beehner Endocrine Laboratory, Department of
Psychology, University of Michigan, Ann Arbor, MI.

2006 – 2013 Assistant Professor, Departments of Psychology and Anthropology
University of Michigan, Ann Arbor, MI.

2004 – 2006 Postdoctoral Researcher, Department of Ecology & Evolutionary Biology
Princeton University, Princeton NJ (with Dr. Jeanne Altmann).

2001 – 2003 Postdoctoral Researcher, Department of Psychology, University of Pennsylvania &
Moremi Game Reserve, Botswana (with Drs. Dorothy Cheney & Robert Seyfarth).

RESEARCH INTERESTS

Reproductive suppression, behavioral endocrinology, reproductive and stress physiology, male and female reproductive strategies, infanticide, female counterstrategies, life history theory, sexually selected signals, comparative cognition

EXTERNAL RESEARCH FUNDING

2019 – 2024	National Science Foundation (pending to BCS, Role: Co-PI), LTREB Renewal: Social dynamics and fitness in a complex primate society. \$450,080.
2018 – 2019	National Geographic Society (Grant #NGS-1242, Role: PI) Lydia Hill Support for Women and Dependent Care. \$2,833.
2018 – 2019	National Geographic Society (Grant #NGS-50409R-18, Role: PI), The evolution of multi-level societies in a wild primate, the gelada. \$30,000.
2018 – 2019	The Leakey Foundation (Role: PI) The Primate Fund: Support for the Simien Mountains Gelada Research Project. \$22,800.
2015 – 2016	Sacramento Zoo Conservation Fund (Role: PI) Distribution, abundance and phylogenetics of geladas across the Ethiopian highlands. \$1980.
2014 – 2015	Fulbright Scholar Fellowship , Institute for International Education (IIE), Gondar University, Ethiopia. \$76,100.
2014 – 2019	National Science Foundation (IOS-1353110, Role: Co-PI), LTREB Renewal: Fitness consequences of pleiotropic androgen effects in free-living mammals. \$23,271.
2013 – 2018	National Science Foundation (IOS-1255974, Role: PI), LTREB: Social dynamics and fitness in a complex primate society. \$449,851.
2013 – 2015	National Science Foundation (BCS-1340911, Role: PI), Doctoral Dissertation Improvement Grant: A test of the vocal grooming hypothesis in the gelada. \$19,775.
2012 – 2014	National Science Foundation (BCS-1231790, Role: PI), Doctoral Dissertation Improvement Grant: Are gelada loud calls sexually selected signals? \$19,890.
2012 – 2013	National Geographic Society (Grant #8989-11, Role: PI), Optimizing the timing of maturation: The effect of novel males on gelada female development. \$32,945.
2011 – 2012	The Leakey Foundation (Role: PI) Factors affecting female maturation in wild geladas. \$19,500.
2010 – 2013	National Science Foundation (BCS-1029403, Role: PI) A multidisciplinary, field-based study of the little-known kinda baboon. \$9,394.
2010 – 2011	National Science Foundation (BCS-0962160, Role: PI) Doctoral Dissertation Improvement Grant: The reproductive trajectories of wild male geladas (<i>Theropithecus gelada</i>) living in all-male groups. \$19,870.
2008 – 2009	National Science Foundation (BCS-0824592, Role: PI) Doctoral Dissertation Improvement Grant: Behavioral endocrinology and reproductive strategies in wild female geladas. \$14,985.
2007 – 2010	National Science Foundation (BCS-0715179, Role: Co-PI) Sizing up potential rivals and mates in wild geladas: Visual, vocal, and hormonal signals. \$317,696.
2007 – 2008	The Leakey Foundation (Role: PI) Sizing up potential rivals and mates in wild geladas: Visual, vocal, and hormonal signals. \$13,740.

- 2006 – 2007 **National Geographic Society** (Role: PI) Committee for Research and Exploration grant (Gr. #8100-06) Sizing up potential rivals and mates in wild geladas: Visual, vocal, and hormonal signals. \$20,000.
- 2005 – 2006 **Wildlife Conservation Society** (Grant #67250, Role: Co-PI) Species Survival Fund conservation award. Assessing the effects of human activity on gelada populations in Simien Mountains National Park, Ethiopia. \$9,996.
- 1999 - 2001 **National Science Foundation** (BCS-9908465, Role: Co-PI) Doctoral Dissertation Improvement Grant. Female behavior and reproduction in a hybrid baboon group. \$11,922.
- 1999 - 2000 **The Wenner-Gren Foundation** (Gr. #6536, Role: PI), Female behavior and reproduction in a hybrid baboon group. \$14,084.

INTERNAL FUNDING, FELLOWSHIPS, AWARDS

- 2019 – 2020 University of Michigan Office of Research (UMOR), *Social monitoring in wild capuchins* (Role: PI). \$15,000.
- 2018 – 2019 University of Michigan Office of Research, MCubed Award, *Training and research under a sustainable roof: A net-zero biological station at the Taboga Forest Reserve, Costa Rica*. (Role: Co-PI). \$15,000.
- 2017 – 2018 ADVANCE Program at the University of Michigan - Elizabeth Caroline Crosby Fund \$9,878.
- 2014 – 2016 University of Michigan – LSA Associate Professor Support Fund \$86,250.
- 2012 – 2013 ADVANCE Program at the University of Michigan - Elizabeth Caroline Crosby Fund. \$8,980.
- 2011 – 2012 University of Michigan - Office of Vice President for Research Faculty Grants and Awards Program, Socially-mediated reproduction in a wild primate \$14,850.
- 2010 University of Michigan - Rackham Graduate School / Office of Vice President for Research Spring/Summer Research Grants Award \$6,000.
- 2003 Washington University - Dean's Fellowship Award.
- 1999 - 2000 Fulbright Student Fellowship, Institute for International Education (IIE), Awash National Park, Ethiopia.
- 1995 - 1999 Washington University - Graduate School Full Tuition Fellowship / Scholarship.

PEER-REVIEWED JOURNAL PUBLICATIONS

Google Scholar Profile: <http://scholar.google.com/citations?user=hLCMecAAAAJ&hl=en>

* indicates student / postdoc authors

58. Tinsley Johnson E*, Snyder-Mackler N, Lu A, Bergman TJ, **Beehner JC**. (In Prep, on BioRxiv) The Goldilocks Effect: Females geladas in mid-sized groups have higher fitness. DOI: [10.1101/348383](https://doi.org/10.1101/348383).

57. Schneider-Crease I, Chiou KL, Snyder-Mackler N, Bergman TJ, **Beehner JC**, Lu A (Submitted) Beyond infant death: The hidden costs of male immigration in geladas. *Biology Letters*.
56. Fischer J, Higham JP, Alberts SC, Barrett L, **Beehner JC**, Bergman TJ, Carter A, Collins A, Dunbar R, Elton S, Fagot J, Ferreira da Silva M, Hammerschmidt K, Henzi P, Jolly CJ, Knauf S, Kopp G, Rogers J, Roos C, Ross C, Seyfarth RM, Silk J, Snyder-Mackler N, Städele V, Swedell L, Wilson ML, Zinner D. (Submitted) Baboons. *eLife*.
55. Zippel MN, Roberts EK*, Alberts SC, **Beehner JC** (Accepted) Male-mediated pregnancy termination: Function and mechanism. *Evolutionary Anthropology*.
54. Bergman TJ, **Beehner JC**, Painter MC, Gustison ML (Accepted) The speech-like properties of non-human primate vocalizations. *Animal Behaviour*.
53. Gustison ML*, Tinsley Johnson E*, **Beehner JC**, Bergman TJ. (2019) The social functions of complex vocal sequences in wild geladas. *Behavioral Ecology and Sociobiology*. 73:14. DOI: [10.1007/s00265-018-2612-5](https://doi.org/10.1007/s00265-018-2612-5).
52. Bergman TJ, Haile AA*, **Beehner JC** (2018) What is (not) a baboon? *International Journal of Primatology*. 39:1005-1008. DOI: [10.1007/s10764-018-0063-5](https://doi.org/10.1007/s10764-018-0063-5).
51. Zinner D, Dolotovskaya S, Urbaneck KA, Gippoliti S, Burke R, Moges A, Atickem A, Mekonnen A, **Beehner JC**, Bergman TJ, Fashing P, Roos C (2018) Geographic structure of mitochondrial DNA diversity in geladas (*Theropithecus gelada*). *PLoS ONE*. 13:e0202303. DOI: [10.1371/journal.pone.0202303](https://doi.org/10.1371/journal.pone.0202303).
50. Ramos-Fernandez G, King A, **Beehner JC**, Bergman TJ, Crofoot M, DiFiore A, Lehmann J, Schaffner C, Snyder-Mackler N, Aureli F, Boyer D. (2018) Quantifying uncertainty due to fission-fusion dynamics as a component of social complexity. *Proceedings of the Royal Society of London, Series B*. 285:20180532. DOI: [10.1098/rspb.2018.0532](https://doi.org/10.1098/rspb.2018.0532).
49. Jarvey JC*, Low BS, Pappano DJ*, Bergman TJ, **Beehner JC**. (2018) Graminivory and fallback foods: Annual diet profile of geladas (*Theropithecus gelada*) living in the Simien Mountains National Park, Ethiopia. *International Journal of Primatology*. 39:105-126. DOI: [10.1007/s10764-018-0018-x](https://doi.org/10.1007/s10764-018-0018-x).
48. Tinsley Johnson E*, Snyder-Mackler N, Bergman TJ, **Beehner JC**. (2018) Social and ecological seasonality in wild geladas. *Behavioral Ecology*. 29:574-588. DOI: [10.1093/beheco/ary008](https://doi.org/10.1093/beheco/ary008).
47. Schneider-Crease IA*, Griffin RH*, Dorny P, Noh JC, Handali S, Chastain HM, Wilkins PP, Nunn CL, Snyder-Mackler N, **Beehner JC**, Bergman TJ. (2017) Identifying wildlife reservoirs of neglected taeniid tapeworms: non-invasive diagnosis of endemic *Taenia serialis* infection in a wild primate population. *PLoS Neglected Tropical Diseases*. 11:e0005709. DOI: [10.1371/journal.pntd.0005709](https://doi.org/10.1371/journal.pntd.0005709).
46. Schneider-Crease IA*, Griffin RH*, Gomery MA*, Bergman TJ, **Beehner JC**. (2017) High mortality associated with tapeworm parasitism in geladas (*Theropithecus gelada*) in the Simien Mountains National Park, Ethiopia. *American Journal of Primatology*. 79:e22684. DOI: [10.1002/ajp.22684](https://doi.org/10.1002/ajp.22684).
45. Benítez ME*, Pappano DJ*, **Beehner JC**, Bergman TJ. (2017) Evidence for mutual assessment in a wild primate. *Scientific Reports*. 7:2952. DOI: [10.1038/s41598-017-02903-w](https://doi.org/10.1038/s41598-017-02903-w).
44. **Beehner JC**, Bergman TJ. (2017) The next step for stress research in primates: To identify relationships between glucocorticoid secretion and fitness. *Hormones and Behavior*. 91:68-83. DOI: [10.1016/j.yhbeh.2017.03.003](https://doi.org/10.1016/j.yhbeh.2017.03.003).
43. Roberts EK*, Lu A, Bergman TJ, **Beehner JC**. (2017) Reproductive parameters in wild female geladas (*Theropithecus gelada*). *International Journal of Primatology*. 38:1-20. DOI: [10.1007/s10764-016-9939-4](https://doi.org/10.1007/s10764-016-9939-4).

42. Benítez ME*, le Roux A*, Fischer J, **Beehner JC**, Bergman TJ. (2016) Acoustic and temporal variation in gelada loud calls advertise male quality. *International Journal of Primatology*. 37:568-585. DOI: [10.1007/s10764-016-9922-0](https://doi.org/10.1007/s10764-016-9922-0).
41. Lu A*, McCann C, Stinespring-Harris A*, Bergman TJ, **Beehner JC**. (2016) Growth trajectories in wild geladas (*Theropithecus gelada*). *American Journal of Primatology*. 78:707-719. DOI: [10.1002/ajp.22535](https://doi.org/10.1002/ajp.22535).
40. **Beehner JC**, Gesquiere L, Cheney DL, Seyfarth RM, Altmann J. (2015) Corrigendum to Testosterone related to age and life-history stages in male baboons and geladas. *Hormones and Behavior*. DOI: [10.1016/j.yhbeh.2015.08.004](https://doi.org/10.1016/j.yhbeh.2015.08.004).
39. Barale CL*, Rubenstein DI, **Beehner JC**. (2015) Juvenile social relationships reflect adult patterns of behavior in wild geladas. *American Journal of Primatology*. 77: 1086-1096. DOI: [10.1002/ajp.22443](https://doi.org/10.1002/ajp.22443).
38. Bergman TJ, **Beehner JC**. (2015) Measuring social complexity. *Animal Behaviour*. 103:203-209. DOI: [10.1016/j.anbehav.2015.02.018](https://doi.org/10.1016/j.anbehav.2015.02.018).
37. Pappano DJ*, **Beehner JC**. (2014) Harem males do not rise to the challenge: Androgens respond to social but not seasonal challenges in wild geladas. *Royal Society Open Science*. 1: 140081. DOI: [10.1098/rsos.140081](https://doi.org/10.1098/rsos.140081).
36. Tinsley Johnson E*, Snyder-Mackler N*, **Beehner JC**, Bergman TJ. (2014) Kinship and dominance rank influence the strength of female social bonds in geladas. *International Journal of Primatology*. 35:288-304. DOI: [10.1007/s10764-013-9733-5](https://doi.org/10.1007/s10764-013-9733-5).
35. **Beehner JC**, Lu A*. (2013) Reproductive suppression in female primates – A review. *Evolutionary Anthropology*. 22:226-238. DOI: [10.1002/evan.21369](https://doi.org/10.1002/evan.21369).
34. Le Roux A*, Snyder-Mackler N*, Roberts E*, **Beehner JC**, Bergman TJ. (2013) Evidence for tactical concealment in a wild primate. *Nature Communications*. DOI: [10.1038/ncomms2468](https://doi.org/10.1038/ncomms2468).
33. Roberts EK*, Lu A*, Bergman TJ, **Beehner JC**. (2012) The Bruce effect in wild geladas. *Science*. 335:1222-1225. DOI: [10.1126/science.1213600](https://doi.org/10.1126/science.1213600).
32. Pappano DJ*, Snyder-Mackler N*, Bergman TJ, **Beehner JC**. (2012) Social “predators” within a multilevel primate society. *Animal Behaviour*. 84:653-658. DOI: [10.1016/j.anbehav.2012.06.021](https://doi.org/10.1016/j.anbehav.2012.06.021).
31. Snyder-Mackler N*, **Beehner JC**, Bergman TJ. (2012) Defining higher levels in a gelada multilevel society. *International Journal of Primatology*. 33:1054-1068. DOI: [10.1007/s10764-012-9584-5](https://doi.org/10.1007/s10764-012-9584-5).
30. Lu A*, **Beehner JC**, Czekala NM, Borries C. (2012) Juggling priorities: Female mating tactics in Phayre’s leaf monkeys. *American Journal of Primatology*. 74:471-481. DOI: [10.1002/ajp.22004](https://doi.org/10.1002/ajp.22004).
29. Le Roux A*, **Beehner JC**, Bergman TJ. (2011) Female philopatry and dominance patterns in wild geladas. *American Journal of Primatology*. 73:422-430. DOI: [10.1002/ajp.20916](https://doi.org/10.1002/ajp.20916).
28. Lu A*, **Beehner JC**, Czekala NM, Koenig A, Larney E, Borries C. (2011) Phytochemicals and reproductive function in wild female Phayre’s leaf monkeys (*Trachypithecus phayrei*). *Hormones and Behavior*. 59:28-36. DOI: [10.1016/j.yhbeh.2010.09.012](https://doi.org/10.1016/j.yhbeh.2010.09.012).
27. Silk JB, **Beehner JC**, Bergman TJ, Crockford C, Engh AL, Moscovice LR, Wittig RM, Seyfarth RM, Cheney DL. (2010) Female chacma baboons form strong, equitable, and enduring social bonds. *Behavioral Ecology and Sociobiology*. 64:1733-1747. DOI: [10.1007/s00265-010-0986-0](https://doi.org/10.1007/s00265-010-0986-0).

26. Silk JB, **Beehner JC**, Bergman TJ, Crockford C, Engh AL, Moscovice LR, Wittig RM, Seyfarth RM, Cheney DL. (2010) Strong and consistent social bonds enhance the longevity of female baboons. *Current Biology*. 20:1359-1361. DOI: [10.1016/j.cub.2010.05.067](https://doi.org/10.1016/j.cub.2010.05.067).
25. Lu A*, Borries C, Czekala NM, **Beehner JC**. (2010) Reproductive characteristics of wild female Phayre's leaf monkeys. *American Journal of Primatology*. 72:1073-1081. DOI: [10.1002/ajp.20866](https://doi.org/10.1002/ajp.20866).
24. Pappano DJ*, Roberts EK*, **Beehner JC**. (2010) Testing extraction and storage parameters for a fecal hormone method. *American Journal of Primatology*. 72:934-941. DOI: [10.1002/ajp.20859](https://doi.org/10.1002/ajp.20859).
23. Stanton S*, LaBar K, Saini E*, Kuhn C, **Beehner JC**. (2010) Stressful politics: Cortisol responses to the outcome of the 2008 U.S. presidential election. *Psychoneuroendocrinology*. 35:768-774. DOI: [10.1016/j.psyneuen.2009.10.018](https://doi.org/10.1016/j.psyneuen.2009.10.018).
22. Stanton S*, **Beehner JC**, Saini E*, Kuhn C, LaBar K. (2009) Dominance, politics, and physiology: Voters' testosterone changes on the night of the 2008 U.S. Presidential election. *PLoS ONE*. 4(10): e7543. DOI: [10.1371/journal.pone.0007543](https://doi.org/10.1371/journal.pone.0007543).
21. **Beehner JC**, Gesquiere L, Cheney DL, Seyfarth RM, Altmann J. (2009) Fecal testosterone related to age and life-history stages in male baboons and geladas. *Hormones and Behavior*. 56:472-480. DOI: [10.1016/j.yhbeh.2009.08.005](https://doi.org/10.1016/j.yhbeh.2009.08.005).
20. Bergman TJ, Ho L*, **Beehner JC**. (2009) Chest color and social status in male geladas (*Theropithecus gelada*). *International Journal of Primatology*. 30:791-806. DOI: [10.1007/s10764-009-9374-x](https://doi.org/10.1007/s10764-009-9374-x).
19. Silk JB, **Beehner JC**, Bergman TJ, Crockford C, Engh AL, Moscovice LR, Wittig RM, Seyfarth RM, Cheney DL. (2009) The benefits of social capital: Close social bonds among female baboons enhance offspring survival. *Proceedings of the Royal Society of London, Series B*. 276:3099-3104. DOI: [10.1098/rspb.2009.0681](https://doi.org/10.1098/rspb.2009.0681).
18. **Beehner JC**, Bergman TJ. (2008) Infant mortality following unit takeovers in wild geladas. *American Journal of Primatology*. 70:1-8. DOI: [10.1002/ajp.20497](https://doi.org/10.1002/ajp.20497).
17. **Beehner JC**, McCann C. (2008) Seasonal and altitudinal effects on glucocorticoid metabolites in a wild primate (*Theropithecus gelada*). *Physiology & Behavior*. 95:508-514. DOI: [10.1016/j.physbeh.2008.07.022](https://doi.org/10.1016/j.physbeh.2008.07.022).
16. Bergman TJ, **Beehner JC**. (2008) A simple method for measuring colour variation in wild animals: Validation and use in geladas (*Theropithecus gelada*). *Biological Journal of the Linnean Society*. 94:231-240. DOI: [10.1111/j.1095-8312.2008.00981.x](https://doi.org/10.1111/j.1095-8312.2008.00981.x).
15. **Beehner JC**, Gebre B, Bergman TJ, McCann C. (2007) Population estimate for geladas (*Theropithecus gelada*) living in and around the Simien Mountains National Park, Ethiopia. *SINET Ethiopian Journal of Science*. 30:149-154.
14. Kitchen DM, **Beehner JC**. (2007) Factors affecting individual participation in group-level aggression. *Behaviour*. 144:1551-1581. DOI: [10.1163/156853907782512074](https://doi.org/10.1163/156853907782512074).
13. **Beehner JC**, Onderdonk DA, Alberts SC, Altmann J. (2006) The ecology of conception and pregnancy failure in wild baboons. *Behavioral Ecology*. 17:741-740. DOI: [10.1093/beheco/arl006](https://doi.org/10.1093/beheco/arl006).
12. **Beehner JC**, Nguyen N, Wango EO, Alberts SC, Altmann J. (2006) The endocrinology of pregnancy and fetal loss in wild baboons. *Hormones and Behavior*. 49:688-699. DOI: [10.1016/j.yhbeh.2005.12.016](https://doi.org/10.1016/j.yhbeh.2005.12.016).
11. **Beehner JC**, Bergman TJ, Cheney DL, Seyfarth RM, Whitten PL. (2006) Testosterone predicts future dominance rank and mating activity among male chacma baboons. *Behavioral Ecology and Sociobiology*. 59:469-479. DOI: [10.1007/s00265-005-0071-2](https://doi.org/10.1007/s00265-005-0071-2).

10. Engh AL, **Beehner JC**, Bergman TJ, Whitten PL, Hoffmeier RR, Seyfarth RM, Cheney DL. (2006) Behavioural and hormonal responses to predation in female chacma baboons (*Papio hamadryas ursinus*). *Proceedings of the Royal Society of London, Series B*. 273:707-712. DOI: [10.1098/rspb.2005.3378](https://doi.org/10.1098/rspb.2005.3378).
9. Engh AL, **Beehner JC**, Bergman TJ, Whitten PL, Hoffmeier RR, Seyfarth RM, Cheney DL. (2006) Female hierarchy instability, male immigration and infanticide increase glucocorticoid levels in chacma baboons. *Animal Behaviour*. 71:1227-1237. DOI: [10.1016/j.anbehav.2005.11.009](https://doi.org/10.1016/j.anbehav.2005.11.009).
8. Bergman TJ, **Beehner JC**, Cheney DL, Seyfarth RM, Whitten PL. (2006) Interactions in male baboons: the importance of both males' testosterone. *Behavioral Ecology and Sociobiology*. 59:480-489. DOI: [10.1007/s00265-005-0072-1](https://doi.org/10.1007/s00265-005-0072-1).
7. **Beehner JC**, Bergman TJ, Cheney DL, Seyfarth RM, Whitten PL. (2005) Effects of male social instability on female glucocorticoid levels in chacma baboons. *Animal Behaviour*. 69:1211-1221. DOI: [10.1016/j.anbehav.2005.11.009](https://doi.org/10.1016/j.anbehav.2005.11.009).
6. **Beehner JC**, Phillips-Conroy JE, Whitten PL. (2005) Female testosterone, dominance rank, and aggression in an Ethiopian population of hybrid baboons. *American Journal of Primatology*. 67:101-119. DOI: [10.1002/ajp.20172](https://doi.org/10.1002/ajp.20172).
5. Bergman TJ, **Beehner JC**, Cheney DL, Seyfarth RM, Whitten, PL. (2005) Correlates of stress in free-ranging male chacma baboons. *Animal Behaviour*. 70:703-713. DOI: [10.1016/j.anbehav.2004.12.017](https://doi.org/10.1016/j.anbehav.2004.12.017).
4. **Beehner JC**, Whitten PL. (2004) Modifications of a field method for fecal steroid analysis in baboons. *Physiology & Behavior*. 82:269-277. DOI: [10.1016/j.physbeh.2004.03.012](https://doi.org/10.1016/j.physbeh.2004.03.012).
3. Bergman TJ, **Beehner JC**. (2004) Social system of a hybrid baboon group (*Papio hamadryas anubis* x *P. h. hamadryas*). *International Journal of Primatology*. 25:1313-1330. DOI: [10.1023/B:IJOP.0000043964.01085.dc](https://doi.org/10.1023/B:IJOP.0000043964.01085.dc).
2. Cheney DL, Seyfarth RM, Fischer J, **Beehner JC**, Bergman TJ, Johnson SE, Kitchen DM, Palombit RA, Rendall D, Silk JB. (2004) Factors affecting reproduction and mortality among baboons in the Okavango Delta. *International Journal of Primatology*. 25:401-428. DOI: [10.1023/B:IJOP.0000019159.75573.13](https://doi.org/10.1023/B:IJOP.0000019159.75573.13).
1. Bergman TJ, **Beehner JC**, Cheney DL, Seyfarth RM. (2003) Hierarchical classification by rank and kinship in baboons. *Science*. 302:1234-1236. DOI: [10.1126/science.1087513](https://doi.org/10.1126/science.1087513).

BOOK CHAPTERS & OTHER PUBLICATIONS

10. Foster SA, Beehner JC (2016) On tool use, and becoming human. *Animal Behaviour*. DOI:10.1016/j.anbehav.2016.02.012.
9. Silk JB, **Beehner JC**, Holekamp KE, Perry S. (2015) Unpaid researchers: Fieldwork grants would up diversity. *Nature*. 523:158 (09 July 2015). DOI: [10.1038/523158b](https://doi.org/10.1038/523158b).
8. **Beehner JC**, Bergman TJ. (2014) Stress in the wilds. In KB Strier (ed): *Primate Ethnographies*. Prentice Hall: Upper Saddle River, NJ. pp. 92-106.
7. Bergman TJ, **Beehner JC**. *Theropithecus gelada*, Gelada. (2013) In T Butynski, J Kingdon, J Kalina, (eds.): *The Mammals of Africa. Volume II. Primates*. Bloomsbury Press: London. pp. 240-244.
6. Mau M, **Beehner JC**, Johann A. (2011) Nutritional aspects of *Theropithecus gelada*: From the wild to captive breeding. In SR Borgearo (ed.): *Animal Feed: Types, Nutrition, and Safety*. Nova Science Publishers, Inc. pp. 195-206.

5. Kitchen DM, **Beehner JC**, Bergman TJ, Cheney DL, Crockford C, Engh AL, Fischer J, Seyfarth RM, Wittig R. (2009) The causes and consequences of male aggression directed at female chacma baboons. In M Muller, R Wrangham (eds.): *Sexual Coercion in Primates and Humans: An Evolutionary Perspective on Male Aggression Against Females*. Harvard University Press: Cambridge, MA. pp. 128-156.
4. **Beehner JC**, Bergman TJ. (2006) Female behavioral strategies of hybrid baboons in the Awash National Park, Ethiopia. In L Swedell, S Leigh (eds.): *Reproduction and Fitness in Baboons: Behavioral, Ecological, and Life History Perspectives*. Springer: New York, pp. 53-79.
3. Cheney DL, Seyfarth RM, Fischer J, **Beehner JC**, Bergman TJ, Johnson SE, Kitchen DM, Palombit RA, Rendall D, Silk JB. (2006) Factors affecting reproduction and mortality among baboons in the Okavango Delta, Botswana. In L Swedell, S Leigh (eds.): *Reproduction and Fitness in Baboons: Behavioral, Ecological, and Life History Perspectives*. Springer: New York, pp. 147-176.
2. Bergman TJ, **Beehner JC**. (2003) Hybrid zones and sexual selection: Insights from the Awash baboon hybrid zone (*Papio hamadryas anubis* x *P.h. hamadryas*). In CB Jones (ed.): *Sexual Selection and Reproductive Competition in Primates: New Perspectives and Directions*. American Society of Primatologists, OK, pp. 502-537.
1. **Beehner JC**. (2003) Female behavior and reproductive success in a hybrid baboon group (*Papio hamadryas anubis* x *P. h. hamadryas*), Ph.D. dissertation, Washington University, St. Louis, MO.

INVITED TALKS

- 2019 **Northwestern University**, Department of Biological Anthropology.
- 2018 **Boise State University**, Department of Ecology, Evolution, and Behavior Seminar.
University of Michigan, Decision Consortium, Department of Psychology.
German Primate Center, Workshop for RTG students
- 2017 **University of Göttingen**, Leibniz-Science-Campus Annual Student Retreat.
University of Zurich, Evolutionary Anthropology Symposium (*declined*).
- 2016 **Max Planck Institute**, Sociality and Health in Primates Workshop.
Dartmouth College, Biological Anthropology Seminar Series.
- 2015 **Max Planck Institute**, Keynote Speaker, German Primatology Conference.
Arizona State University, Evolutionary Anthropology Group.
- 2014 **Princeton University**, Animal Behavior Society, President's Symposium Series.
University of California - Santa Barbara, Broom Demography Center Seminar Series.
University of California - Los Angeles, UCLA Behavior, Evolution & Culture series.
- 2013 **Western Michigan University**, Department of Biological Sciences, Colloquium Series.
University of Göttingen, Courant Research Center for the Evolution of Social Behavior.
University of Michigan, Dearborn, Animal Behavior Speaker Series.
- 2012 **University of California - Davis**, Department of Biological Anthropology.
- 2011 **Princeton University**, Department of Ecology and Evolutionary Biology.
Princeton University, Ecology and Evolutionary Biology Colloquium Series.
Duke University, Department of Evolutionary Anthropology.
- 2008 **University of Chicago**, Animal Behavior Seminar Series.
University of Michigan, Ecology and Evolutionary Biology Seminar Series.

- 2007 **Cleveland Zoological Park**, Annual Gelada Conference.
Michigan State University, Behavioral Biology Group, Department of Zoology.
- 2006 **University of Michigan**, Reproductive Sciences Program Seminar Series.
University of Michigan, Evolution & Human Adaptations Program Seminar Series.
- 2005 **University of Michigan**, Biopsychology Colloquium.
University of Texas, Austin, Anthropology Colloquium.
- 2003 **New York University**, Consortium in Evolutionary Primatology Lecture Series.
University of Pennsylvania, Stress and Behavior Lecture Series.

CONTRIBUTED TALKS

* indicates students or postdoc authors

- Beehner JC, Zippel MN, Roberts EK, Alberts SC (2019) A tale of three monkeys: male-mediated prenatal loss explained. American Association of Physical Anthropology Annual Meetings. Cleveland, OH.
- DeLacey PM*, Bergman TJ, Beehner JC (2019). Temperature alters chest redness in geladas. American Association of Physical Anthropology Annual Meetings. Cleveland, OH.
- Feder JA*, Beehner JC, Lu A (2019). Social influences on reproductive development and maturation in female geladas. American Association of Physical Anthropology Annual Meetings. Cleveland, OH.
- Janiak MC, Chiou KL, Lu A, Bergman TJ, Beehner JC, Snyder-Mackler N, Melin AD (2019) Digestive and sensory adaptations for the grass-eating niche: Insights from the gelada (*Theropithecus gelada*) genome. American Association of Physical Anthropology Annual Meetings. Cleveland, OH.
- Benítez ME*, Bergman TJ, Beehner JC (2017). Evidence for mutual assessment in a wild primate. Animal Behavior Society Meetings. Toronto, June 2017.
- Benítez ME*, Bergman TJ, Beehner JC (2017). Sizing up strangers: sexual selection and vocal signals in male geladas (*Theropithecus gelada*). American Association of Physical Anthropology Annual Meetings. New Orleans, April 2017.
- Sen S*, Barale CL*, Lu A*, Beehner JC (2017). Testosterone as a predictor of dispersal strategies in wild geladas. American Association of Physical Anthropology Annual Meetings. New Orleans, April 2017.
- Tinsley Johnson E*, Snyder-Mackler N*, Bergman TJ, Beehner JC. (2017) Socializing by vocalizing: a test of the vocal grooming hypothesis in the gelada (*Theropithecus gelada*). American Association of Physical Anthropology Annual Meetings. New Orleans, April 2017.
- Reitsema LJ, Snyder-Mackler N*, Beehner JC, Bergman TJ, Lu A*. (2017) Elemental ratios of carbon and nitrogen track weaning in a graminivorous primate (*Theropithecus gelada*). American Association of Physical Anthropology Annual Meetings. New Orleans, April 2017.
- Lu A*, Reitsema LJ, Beehner JC, Bergman TJ, Snyder-Mackler*. (2017) Triangulating weaning in wild geladas (*Theropithecus gelada*) using observational, isotopic, and gut microbial evidence. American Association of Physical Anthropology Annual Meetings. New Orleans, April 2017.
- Bergman TJ, Beehner JC. (2016) Complexity and cognition in baboons and geladas. Joint Meeting of the International Primatological Society and the American Society of Primatologists, Chicago, August 2016.
- Lu A*, Pappano D*, Bergman TJ, Beehner JC. (2016) Equal costs of raising sons and daughters in wild geladas (*Theropithecus gelada*) from the Simien Mountains National Park, Ethiopia. Joint Meeting of the International Primatological Society and the American Society of Primatologists, Chicago, August 2016.

- Benítez ME*, Bergman TJ, Beehner JC. (2016) Multimodal signaling in geladas. Joint Meeting of the International Primatological Society and the American Society of Primatologists, Chicago, August 2016.
- Tinsley Johnson E*, Snyder-Mackler N*, Bergman TJ, Beehner JC. (2016) Through thick and thin: social flexibility in geladas. Joint Meeting of the International Primatological Society and the American Society of Primatologists, Chicago, August 2016.
- Jarvey JC*, Low BS, Bergman TJ, Beehner JC. (2016) Within-unit female competition is greater than between-unit female competition in wild geladas. Joint Meeting of the International Primatological Society and the American Society of Primatologists, Chicago, August 2016.
- Jarvey JC*, Low BS, Bergman TJ, Beehner JC. (2016) The roots of all evil: aggression and below-ground feeding in female geladas. Annual meeting of the American Association of Physical Anthropologists, Atlanta 2016.
- Jarvey JC*, Low BS, Beehner JC. (2016) Identifying habitat suitability requirements for an Afro-montane primate in Northern Ethiopia. Midwest Fish & Wildlife Conference, Grand Rapids, MI.
- Pappano DJ*, Bergman TJ, Beehner JC. (2015) Leadership patterns within gelada reproductive units. *American Journal of Physical Anthropology*, S60:26.
- Benítez ME*, Bergman TJ, Beehner JC. (2015) Testosterone mediates loud calls in gelada males. *American Journal of Physical Anthropology*, S60:84-85.
- Tinsley Johnson E*, Snyder-Mackler N*, Beehner JC, Bergman TJ. (2015) You can't bogart that grass: Dominance and resources in geladas. *American Journal of Physical Anthropology*, S60:305.
- Patterson SK*, Bergman TJ, Cheney DL, Seyfarth RM, Beehner JC. (2015) Rises in testosterone predict rises in dominance rank for male chacma baboons. *American Journal of Physical Anthropology*, S60:248.
- Benítez ME*, Beehner JC, Bergman TJ. (2014) Gelada males attend to acoustic differences in loud calls. *Animal Behavior Society Meetings*. Princeton University, Princeton, NJ.
- Greenberg JR*, Holekamp KE, Beehner JC. (2014) Prey hair does not affect fecal steroid hormone values in carnivores. *Annual Conference of the Association of Zoos & Aquariums*. Orlando, FL.
- Beehner JC, Rogers J, Jolly CJ, Phillips-Conroy JE. (2013) What can testosterone tell us about the life history of male kinda baboons? *American Journal of Physical Anthropology*, S56.
- Tinsley Johnson E*, Snyder-Mackler N*, Beehner JC, Bergman TJ. (2013) Female geladas form strong bonds with close kin. *American Journal of Physical Anthropology*, S56.
- Pappano DJ*, Bergman TJ, Beehner JC. (2013) Seasonal and social influences on androgen secretion in male geladas. *American Journal of Physical Anthropology*, S56.
- Benítez ME*, le Roux A*, Beehner JC, Bergman TJ. (2012) Acoustic properties of gelada loud calls may advertise male quality. XXIV Congress of the International Primatological Society. Cancun August 2012.
- Roberts EK*, Beehner JC. (2012) Avoiding infanticide: The role of deception. *Animal Behavior Society annual conference*, Albuquerque, New Mexico.
- Tinsley Johnson E*, Beehner JC. (2012) Birth seasonality in wild female geladas. XXIV Congress of the International Primatological Society. Cancun August 2012.
- Pappano DJ*, Snyder-Mackler N*, Beehner JC. (2012) Social bonds and genetic relatedness of bachelor geladas (*Theropithecus gelada*) living in all-male groups. XXIV Congress of the International Primatological Society. Cancun August 2012.

- Roberts EK*, Beehner JC. (2012) A mother's intuition: The perception of infanticide risk. Society of Behavioral Neuroendocrinology annual conference, Madison, Wisconsin.
- Lu A*, Beehner JC. A Vandenberg effect in wild geladas? (2012) American Journal of Physical Anthropology. S54:196-197.
- Roberts EK*, Lu A*, Bergman TJ, Beehner JC. (2012) The Bruce effect in a wild primate. American Journal of Physical Anthropology. S54:250.
- Pappano DJ*, Beehner JC. (2012) Bachelor gelada association and ranging patterns: implications for multi-level societies. American Journal of Physical Anthropology. S54:232.
- Pappano DJ*, Beehner JC. (2012) Social bonding and physiological stress in wild bachelor geladas. Animal Behavior Society.
- Roberts EK*, Beehner JC. (2011) A tale of deception: pseudo-sexual swellings in a wild primate. Society for Behavioral Neuroendocrinology.
- Pappano DJ*, Synder-Mackler N*, Bergman TJ, Beehner JC. (2011) All-male groups affect grouping and spacing in a multi-level primate society. Animal Behavior Society.
- Beehner JC. (2011) How to measure dominance? Percentile vs. ordinal ranking systems. American Journal of Physical Anthropology. S52:85
- Benítez M*, Anestis S, Santos L, Bribiescas R, Beehner JC. (2011) A non-invasive method for collecting salivary testosterone in socially-housed captive monkeys. American Journal of Physical Anthropology. S52:87-88.
- Lu A*, Benítez M*, Beehner JC. (2011) Quantifying urinary C-peptides in wild geladas (*Theropithecus gelada*). American Journal of Physical Anthropology. S52:201.
- Lieberman SA*, Bergman TJ, Beehner JC. (2010) Testosterone and life-history stages in adult male chacma baboons. American Journal of Physical Anthropology. S50:155.
- Beehner JC, Gesquiere L, Cheney DL, Seyfarth RM, Alberts SC, Altmann J. (2009) Fecal testosterone related to age and life-history stages in male geladas and baboons. Society for Behavioral Neuroendocrinology.
- Beehner JC, Bergman TJ. (2009) The 'bleeding heart baboon': Does chest patch color signal male quality in geladas? American Journal of Physical Anthropology. S48:87.
- Dobson SD, Bergman TJ, Beehner JC. (2009) On the facial display repertoire of geladas. American Journal of Physical Anthropology. S48:120
- Kitchen DM, Cheney DL, Seyfarth RM, Beehner JC. (2009) A link between fecal testosterone and an honest signal – the loud 'wahoo' vocalizations of chacma baboons. American Journal of Physical Anthropology. S48:166.
- Lu A*, Borries C, Czekala NM, Beehner JC. (2009) Reproductive characteristics of wild female Phayre's leaf monkeys (*Trachypithecus phayrei crepusculus*). American Society of Primatologists.
- Lu A*, Borries C, Czekala NM, Beehner JC. (2009) Natural birth control: seasonal increases in fecal progestins affect reproductive function in wild female Phayre's leaf monkeys (*Trachypithecus phayrei*). American Journal of Physical Anthropology. S48:178. Won award for best student presentation

- Pappano DJ*, Roberts EK*, Beehner JC. (2009) Modifications to a fecal hormone extraction method: implications for storage of fecal hormone metabolites. *American Journal of Physical Anthropology* 134:206.
- Bergman TJ, Beehner JC, Gebre B, McCann C. (2007) Gelada conservation: Human-gelada conflict and tourism in the Simien Mountains National Park. *The Biological Society of Ethiopia, Addis Ababa, Ethiopia*.
- Beehner JC, Bergman TJ, Cheney DL, Seyfarth RM, Whitten PL. (2004) The effect of new alpha males on female stress in free-ranging baboons. *Animal Behavior Society Meeting, Oaxaca, Mexico*.
- Bergman TJ, Beehner JC, Seyfarth RM, Cheney DL, Whitten PL. (2004) Field experiments on testosterone, rank, and male-male interactions in baboons. *Animal Behavior Society Meeting, Oaxaca, Mexico*.
- Beehner JC, Bergman TJ, Cheney DL, Seyfarth RM, Whitten PL. (2004) Male takeovers, infanticide risk, and stress in male and female chacma baboons. *American Journal of Primatology* 62:121-122.
- Beehner JC, Bergman TJ. (2003) Reproductive strategies among female hybrid baboons in the Awash National Park. *American Journal of Physical Anthropology* 36:63.
- Seyfarth RM, Bergman TJ, Cheney DL, Beehner JC. (2003) Survival and reproduction in chacma baboons. *American Journal of Physical Anthropology* 36:189.
- Beehner JC, Phillips-Conroy JE, Bergman TJ, Jolly CJ, and Whitten PL. (1999) A field method for the assessment of gonadal, adrenal, and ovarian function in baboons using fecal steroid analysis. *American Journal of Physical Anthropology* 28:89.

MENTORING

Postdocs (*Beehner as principle advisor*)

- 2010-2013 Dr. Amy Lu, Ph.D. Postdoctoral research on life history in wild female geladas.
Current position: Assistant Professor, Department of Anthropology, SUNY Stony Brook.

Graduate Students (*Beehner as principle advisor*)

- 2007-2012 Dr. Eila Roberts, Ph.D. Research on female reproductive strategies in wild geladas.
Funding received: NSF dissertation improvement grant, Leakey Foundation grant
Postdoctoral position: Dept of Anthropology, Arizona State University (with Dr. Joan Silk).
Current position: Specialist Advisor, College of Natural Sciences, Dept. Integrative Biology, Michigan State University.
- 2007-2013 Dr. David Pappano, Ph.D. Research on male reproductive strategies in wild geladas.
Funding received: NSF graduate student fellowship, Fulbright student fellowship, NSF dissertation improvement grant, Leakey Foundation grant.
Current position: Data scientist working for McKinsey & Co., based out of Waltham, MA.
- 2009-2016 Dr. Marcela Benítez, Ph.D. Research on sexually-selected signals in wild geladas.
Funding received: NSF graduate student fellowship, Fulbright student fellowship (declined), NSF dissertation improvement grant, Leakey Foundation grant.
Current position: Postdoctoral researcher, NSF-funded postdoctoral fellowship, Georgia Tech University (with Dr. Sarah Brosnan, Dr. Meg Crofoot).
- 2010-2018 Elizabeth Johnson, Ph.D. Research on the 'vocal grooming hypothesis' in geladas.
Funding received: NSF graduate student fellowship, NSF dissertation improvement grant, Leakey Foundation grant.

Current position: Assistant professor, College of Natural Sciences, Dept. Integrative Biology, Michigan State University.

- 2015-present Sharmi Sen, Ph.D. Candidate. In the field for fieldwork.
- 2016-present Sofia Carrera, Ph.D. Candidate. In the field for fieldwork.
- 2017-present Patsy DeLacey, Ph.D. pre-candidate. Doing coursework and laboratory training.

TEACHING

- 2019 Hormones and Behavior (Psych 337)
- 2018 Evolutionary Endocrinology (Anthro 468 / Psych 439)
- 2017 Hormones and Behavior (Psych 337)
- 2016 Primate Behavioral Ecology (Anthro 478)
Hot Topics in Primatology (Anthro 668 / Psych 630)
Hormones and Behavior (Psych 337)
- 2015 Grant Writing in the Life Sciences (Anthro 569/Psych 539)
Two faculty writing workshops at the University of Gondar, Ethiopia
- 2014 Hormones and Behavior (Psych 438)
Nature, Culture, Now! (Anthro 342)
- 2013 Hormones and Behavior (Psych 438)
Primate Behavioral Ecology (Anthro 478)
Grant Writing in the Life Sciences (Anthro 668/Psych 630)
- 2012 Primate Behavioral Ecology (Anthro 478)
Life History Theory seminar (Anthro 668/Psych 630)
- 2011 Primate Behavioral Ecology (Anthro 478)
Grant Writing in the Life Sciences (Anthro 668/Psych 630)
Hormones and Behavior (Psych 438)
- 2010 Primate Behavioral Ecology (Anthro 568)
- 2009 Mechanisms of Animal Behavior (Anthro 668/Psych 630)
- 2011 Primate Behavioral Ecology, Anthro 568)
Methods in Scientific Writing and Presenting (Anthro 668/Psych 630)
- 2007 Hormones and Behavior (Psych 438)
Hormones and Animal Social Behavior (Psych 808)
- 2006 Primate Behavioral Ecology (Anthro 568)
Evolution of Social Behavior and Cognition (Anthro 668/Psych 630)

SERVICE

International and National Service

- 2017-present Associate Editor, *Evolutionary Anthropology*
- 2015-present Editorial Board, *Hormones and Behavior*
- 2013-2018 Associate Editor, *Animal Behaviour*
- 2015 NSF Panel member, National Science Foundation, Division of Behavioral and Cognitive Sciences
- 2005-present Ad hoc Reviewing, Funding Organizations
National Science Foundation (NSF Animal Behavior Program, NSF Biological Anthropology Program), National Fellowships Committee for Graduate Women in Science (GWIS), The Leakey Foundation, National Geographic Society, American Philosophical Society – Lewis and Clark Fund, Natural Sciences and Engineering Research Council of Canada (NSERC).
- 2005-present Ad hoc Reviewing, Journals
American Journal of Physical Anthropology, American Journal of Primatology, Animal Behaviour, Behavioral Ecology, Behavioral Ecology and Sociobiology, Behaviour, Behavioural Processes, Biology Letters, Current Biology, Ecology Letters, Evolution, Evolutionary Anthropology, General and Comparative Endocrinology, Hormones and Behavior, International Journal of Primatology, Journal of Anthropological Archaeology, Journal of Neuroscience Research, Nature (Scientific Reports), Physiology & Behavior, Primates, Proceedings of the National Academy of Sciences (PNAS), Proceedings of the Royal Society of London - Series B, Public Library of Science (PLoS) One.

University of Michigan Service

- 2018-2019 Faculty Search Committee, Anthropology
Curriculum Committee, Anthropology
Annual Review Committee, Biopsychology
- 2016-2017 International Institute Student Fellowships Committee
Third-Year Review Committee, Psychology
Jaffe “Symposium on Scarcity and Security” Steering Committee
Awards Committee, Psychology
Annual Review Committee, Biopsychology
Graduate Admissions Committee, Biopsychology
Colloquium Committee, Biopsychology
Faculty Search Committee (opportunity hire), Psychology
- 2015-2016 Fellowships Committee, Anthropology
Graduate Curriculum Committee, Psychology
- 2013-2014 Chair, Faculty Search Committee, two positions in Biopsychology
Augmented Executive Committee (AEC), Psychology
Executive Committee (EC), Anthropology
- 2012-2013 Awards Committee, Psychology
Faculty Search Committee, two positions in Biopsychology
Space Committee, Psychology
Lecturer Ad-hoc Search Committee, Biopsychology
Curriculum Committee, Biopsychology
- 2011-2012 Colloquium Committee, Anthropology
Faculty Search Committee, Biopsychology
Faculty Search Committee, Anthropology

Acting Subfield Chair, Anthropology
Executive Committee (EC), Anthropology

2008-2009 Colloquium Committee, Biopsychology
Faculty Search Committee, Anthropology

2007-2008 Faculty Search Committee, two positions in Psychology and Women's Studies
Augmented Executive Committee (AEC), Psychology