

# Thore Jon Bergman

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## EDUCATION

- 2000 **Ph.D.** in Population and Evolutionary Biology, Biology Department, Washington University, St. Louis, MO (*Thesis advisor:* Dr. Jane Phillips-Conroy)
- 1993 **B.S.** in Zoology and Biological Aspects of Conservation, University of Wisconsin, School of Arts and Sciences. Madison, WI.
- 1993 Certificate (Minor) in Environmental Studies, University of Wisconsin School of Arts and Sciences, Madison, WI.

## RESEARCH INTERESTS

Animal cognition, Animal communication, Evolution of social behavior, Signal honesty, Sexual selection, Mating and parental investment strategies, Hybrid zone theory

## RESEARCH POSITIONS

- 2006 - present **Assistant Professor**, Department of Psychology and Department of Ecology and Evolutionary Biology, University of Michigan, Ann Arbor, MI
- 2005 - present **Co-director**, University of Michigan Gelada Research Project, Simien Mountains National Park, Ethiopia
- 2001 - 2005 **NRSA Post-doctoral Fellow** Vocal communication and cognition in baboons, Moremi Game Reserve, Botswana. Directed by Drs. Dorothy Cheney and Robert Seyfarth.
- 1999 - 2000 **Graduate Student Lab Research.** Laboratory research using baboon microsatellite data to determine paternity and genetic hybrid indexes (for thesis). Directed by Dr. Clifford Jolly, New York University.
- 1997 - 1998 **Graduate Student Field Research.** Field study of hybrid baboon behavior in the Awash National Park, Ethiopia (for thesis). Directed by Drs. Jane Phillips-Conroy (Washington University) and Clifford Jolly (New York University).

## JOURNAL PUBLICATIONS

- In prep **Bergman TJ.** Experimental evidence for limited vocal recognition in gelada monkeys: implications for the social complexity hypothesis.
- Beehner JC, **Bergman TJ.** Chest patch color varies with status: Evidence for a sexually-selected signal in male geladas?
- In review Kitchen DM, **Bergman TJ**, Nicholson J, Cheney DL, Seyfarth RM. Responses of four ungulate species to experimental playback of baboon loud calls.
- Silk JB, Beehner JC, **Bergman TJ**, Crockford C, Engh AL, Moscovice LR, Wittig RM, Seyfarth RM, Cheney DL. Strong bonds among female baboons enhance offspring survival.
- 2009 **Bergman TJ**, Kitchen DM. Comparing responses to novel objects in *Papio* and *Theropithecus*. *Animal Cognition*. DOI 10.1007/s10071-008-0171-2
- 2008 **Bergman TJ**, Beehner JC. A simple method for measuring color variation in wild animals: Validation and use in geladas (*Theropithecus gelada*). *Biological Journal of the Linnean Society*. 94:231-240.

- 2008 cont. **Bergman TJ**, Phillips-Conroy JE, Jolly CJ. Behavioral variation and reproductive success of male baboons (*Papio anubis* x *P. hamadryas*) in a hybrid social group, *American Journal of Primatology*. 70:136-147.
- Beehner JC, **Bergman TJ**. Infant mortality following unit takeovers in wild geladas. *American Journal of Primatology*. 70:1-8.
- 2007 Beehner JC, Gebre B, **Bergman TJ**, McCann C. Population estimate for geladas (*Theropithecus gelada*) living in and around the Simien Mountains National Park, Ethiopia. *SINET Ethiopian Journal of Science*. 30:149-154.
- 2006 **Bergman TJ**, Beehner JC, Cheney DL, Seyfarth RM, Whitten PL. Interactions in male baboons: the importance of both males' testosterone, *Behavioral Ecology and Sociobiology*. 59:480-489.
- Beehner JC, **Bergman TJ**, Cheney DL, Seyfarth RM, Whitten PL. Testosterone predicts future dominance rank and mating activity among male chacma baboons, *Behavioral Ecology and Sociobiology*. 59:469-479.
- Engh AL, Beehner JC, **Bergman TJ**, Whitten PL, Hoffmeier RR, Seyfarth RM, Cheney DL. Behavioural and hormonal responses to predation in female chacma baboons (*Papio hamadryas ursinus*). *Proceedings of the Royal Society of London*. 273:707-712.
- Engh AL, Beehner JC, **Bergman TJ**, Whitten PL, Hoffmeier RR, Seyfarth RM, Cheney DL. Female hierarchy instability, male immigration and infanticide increase glucocorticoid levels in chacma baboons. *Animal Behaviour*, 71:1227-1237.
- 2005 **Bergman TJ**, Beehner JC, Cheney DL, Seyfarth RM, Whitten PL. Correlates of stress in free-ranging male chacma baboons. *Animal Behaviour*. 70:703-713.
- Seyfarth RM, Cheney DL, **Bergman TJ**. Primate social cognition and the origins of language, *Trends in Cognitive Sciences*, 9:264-266.
- 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.
- 2004 **Bergman TJ**, Beehner JC. The social system of a hybrid baboon group (*Papio hamadryas anubis* x *P. h. hamadryas*). *International Journal of Primatology*, 25:1313-1330.
- Wildman DE, **Bergman TJ**, al-Aghbari A, Sterner KN, Newman TK, Phillips-Conroy JE, Jolly CJ, Disotell TR. Mitochondrial evidence for the origin of hamadryas baboons. *Molecular Phylogenetics and Evolution*, 32:287-296.
- Cheney DL, Seyfarth RM, Fischer J, Beehner JC, **Bergman TJ**, Johnson SE, Kitchen DM, Palombit RA, Rendall D, Silk JB. Factors affecting reproduction and mortality among baboons in the Okavango Delta, Botswana. *International Journal of Primatology*, 25:401-428.
- 2003 **Bergman TJ**, Beehner JC, Cheney DL, Seyfarth RM. Hierarchical classification by rank and kinship in baboons. *Science*, 302:1234-1236.

#### BOOK CHAPTERS, COMMENTARIES, AND REVIEWS

- In prep **Bergman TJ**. The role of males in the Awash hybrid zone. JE Phillips-Conroy, CJ Jolly (eds.), Wiley InterScience.

- In press **Bergman TJ**. Social relationships and social knowledge. In B Thierry (ed): *Encyclopedia of Neuroscience and Behavior*. Elsevier Press.
- Bergman TJ**, Beehner JC. *Theropithecus gelada*. In J Kingdon, D Happold, T Butynski (eds.): *The Mammals of Africa*. Elsevier Press.
- Kitchen DM, **Bergman TJ**. Chacma baboons. In N Rowe (ed.): *All the World's Primates*, Pogonias Press: Charlestown, RI.
- 2009 Kitchen DM, Cheney DL, Seyfarth RM, Beehner JC, **Bergman TJ**, Crockford C, Engh AL, Fischer J, Wittig R. Costs and consequences of male aggression directed at female chacma baboons. In M Muller, R Wrangham (eds.): *Male Coercion in Primates*. Harvard University Press: Harvard.
- 2006 **Bergman TJ**. Hybrid baboons and the origin of the hamadryas male mating strategy. In L Swedell and S Leigh (eds.): *Reproduction and Fitness in Baboons: Behavioral, Ecological, and Life History Perspectives*. Springer: New York. pp 81-103.
- Bergman TJ**. Commentary on article by RM Sapolsky, Social cultures among Nonhuman primates. *Current Anthropology*, 47(4):648-649.
- Beehner JC, **Bergman TJ**. Social behavior among female hybrid baboons in the Awash National Park of Ethiopia. In L Swedell and S Leigh (eds.): *Reproduction and Fitness in Baboons: Behavioral, Ecological, and Life History Perspectives*. Springer: New York. pp 53-79.
- Cheney DL, Seyfarth RM, Fischer J, Beehner JC, **Bergman TJ**, Johnson SE, Kitchen DM, Palombit RA, Rendall D, Silk JB. 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.
- 2005 **Bergman TJ**. Book review of *Sexual Selection in Primates: New and Comparative Perspectives*, eds. Kappeler PM, van Schaik CP (2004), Cambridge University Press: Cambridge and New York. *The Quarterly Review of Biology*, 80:266.
- 2003 **Bergman TJ**, Beehner JC. 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, Norman, OK, pp. 502-537.
- 2000 Phillips-Conroy JE, **Bergman TJ**, Jolly CJ. Quantitative assessment of occlusal wear and age estimation in Ethiopian and Tanzanian baboons. In CJ Jolly and P Whitehead (eds.): *Old World Monkeys*. Cambridge University Press, Cambridge. pp. 321-340.
- 1998 Sexton OJ, Phillips CA, **Bergman TJ**, Wattenberg EB, Preston RE. Abandon not hope: The status of populations of the spotted salamander (*Ambystoma maculatum*) and the wood frog (*Rana sylvatica*). In MJ Lannoo (ed): *Status and Conservation of Midwestern Amphibians*. University of Iowa Press: Iowa City. pp. 340-344.

## FELLOWSHIPS, HONORS, GRANTS

- 2008 **University of Michigan OVPR**, *Vocalizations in purebred and hybrid howler monkeys in Mexico*, (Role: collaborator).

- 2007 – 2010 **National Science Foundation** (Gr.# 0715179), *Sizing up potential rivals and mates in wild geladas: Visual, vocal, and hormonal signals*, (Role: PI).
- 2007 – 2008 **L.S.B. Leakey Foundation**, *Sizing up potential rivals and mates in wild geladas: Visual, vocal, and hormonal signals*, (Role: Co-PI).
- 2006 – 2007 **National Geographic Society**, Committee for Research and Exploration grant (Gr.# 8100-06) *Sizing up potential rivals and mates in wild geladas: Visual, vocal, and hormonal signals*, (Role: Co-PI).
- 2005 - 2006 **Wildlife Conservation Society**, Species Survival Fund conservation award (Gr.# 67250), *Assessing the effects of human activity on gelada baboons in Ethiopia*, (Role: Co-PI).
- 2002 - 2005 **National Institutes of Health**, National Research Service Award (NRSA), postdoctoral research fellowship, *Social cognition in wild chacma baboons*.
- 1999 - 2000 **Wenner-Gren Foundation** supplemental grant for dissertation fecal hormone analysis (Gr.# 6371).
- 1998 - 1999 **Wenner-Gren Foundation** grant for dissertation field and laboratory research, *Reproductive success of hybrid male baboons in Awash National Park, Ethiopia* (Gr.# 6371).
- 1997 - 1998 **National Science Foundation** Dissertation Improvement Grant, Reproductive success of hybrid male baboons in Awash National Park, Ethiopia (SBR-9711216).
- 1997 - 1998 **National Geographic Society** grant for dissertation field research (Gr.# 6091-97).
- 1997 - 1998 **Boise Fund** grant for dissertation field research.
- 1997 - 1998 **Sigma Xi** grant for dissertation field research.
- 1994 - 2000 Graduate Fellowship/Full-Tuition Scholarship, Washington University.

## PROFESSIONAL PRESENTATIONS

- 2009 Jolly CJ, Phillips-Conroy JE, Kaplan J, **Bergman TJ**, Mann JJ. Monoamine metabolites in the CSF of male anubis (*Papio anubis*) and hamadryas (*P. hamadryas*) baboons parallel their species-specific behavioral ontogeny. Accepted.
- Beehner JC, **Bergman TJ**. The 'bleeding heart baboon': Does chest patch color signal male quality in geladas? *American Journal of Physical Anthropology*. Accepted.
- Dobson SD, **Bergman TJ**, Beehner JC. On the facial display repertoire of geladas. *American Journal of Physical Anthropology*. Accepted.
- 2008 Kitchen DM, **Bergman TJ**. Comparing responses to novel objects in *Papio* and *Theropithecus*. American Association of Physical Anthropologists, Columbus, OH.
- 2007 **Bergman TJ**, Beehner JC, Gebre B, McCann C. Gelada conservation: Human-gelada conflict and tourism in the Simien Mountains National Park. The Biological Society of Ethiopia, Addis Ababa, Ethiopia.
- 2004 **Bergman TJ**, Beehner JC, Cheney DL, Seyfarth RM, Whitten PL. Field experiments on testosterone, rank, and male-male interactions in baboons. Animal Behaviour Society, Oaxaca, Mexico.
- Beehner JC, **Bergman TJ**, Cheney DL, Seyfarth RM, Whitten PL. Male takeovers, infanticide risk, and stress in male and female chacma baboons. American Society of Primatologists, Madison, WI.
- 2003 Beehner JC, **Bergman TJ**. Social behavior among female hybrid baboons in the Awash National Park. American Association of Physical Anthropologists, Tempe, AZ.

Seyfarth RM, **Bergman TJ**, Cheney DL, Beehner JC. Survival and reproduction in chacma baboons. American Association of Physical Anthropologists, Tempe, AZ.

- 2000 **Bergman TJ**, Whitten PL. Fecal cortisol and testosterone in relation to ancestry and behavior in hybrid male baboons. *American Journal of Physical Anthropology*, Suppl. 30:106-107.
- 1999 **Bergman TJ**, Phillips-Conroy JE, Jolly CJ, Disotell TR. Reproductive success of hybrid male baboons: Implications for gene flow in Ethiopia's Awash National Park. Society for the Study of Evolution, Madison, WI, June 1999.
- Bergman TJ**. Mating behavior and success of hybrid male baboons (*Papio hamadryas hamadryas* x *P. h. anubis*) in the Awash National Park. *American Journal of Primatology*, 49(1):34-35.
- Beehner JC, Phillips-Conroy JE, **Bergman TJ**, Jolly CJ, Whitten PL. A field method for the assessment of gonadal, adrenal, and ovarian function in baboons using fecal steroid analysis. *American Journal of Physical Anthropology*, Supplement 28:89.
- 1997 **Bergman TJ**. Relationships within and among Awash baboon forms based on mtDNA sequence data. *American Journal of Physical Anthropology*, Supplement 24:75-76.
- 1996 **Bergman TJ**, Phillips-Conroy JE. Quantitative assessment of dental macro-wear in wild baboons: age prediction and intergroup comparisons. Joint Conference, International Primatological Society and American Society of Primatologists, Madison, WI.

#### INVITED LECTURES

- 2008 *Comparing communication and cognition in geladas and baboons*. Behavioral Biology Seminar Series, Eastern Michigan University, Ypsilanti, MI.
- 2007 *Comparative studies in communication and cognition in wild primates*. Neuroscience Group, Wayne State University, Detroit, MI.
- Curiosity, communication and cognition: Comparative studies of baboons and geladas*. Behavioral Biology Group, Department of Zoology, Michigan State University, East Lansing, MI.
- Geladas - past and present: The natural history and behavioral ecology of geladas*. Wildlife Training Seminar, Amhara National Regional State Parks Development and Protection Authority, Debark, Ethiopia.
- 2006 *Curiosity, communication and cognition: Comparative studies of baboons and geladas*. Department of Ecology and Evolutionary Biology seminar series, University of Michigan, Ann Arbor, MI.
- Population monitoring and Ethiopia's endemic species*. Wildlife Training Seminar, Amhara National Regional State Parks Development and Protection Authority, Debark, Ethiopia.
- 2005 *Cognition in free-ranging baboons*. Psychology Colloquium, Psychology Dept. University of Iowa, Iowa City, IA.
- Cognition in free-ranging baboons*. Biopsychology Colloquium, Psychology Dept. University of Michigan, Ann Arbor, MI.
- 2004 *Using playback experiments to study behavior and cognition*. New York Regional Primatology Colloquium, NYCEP, New York City, NY.
- 2003 *Sexual selection in hybrid baboons of the Awash National Park*. Rutgers University, NJ.
- 2001 *The behavior of hybrid male baboons*. University of Capetown, South Africa.

## TEACHING

- 2008 **Psych 335: Introduction to Animal Behavior**, Department of Psychology, University of Michigan.
- 2007 **Psych 335: Introduction to Animal Behavior**, Department of Psychology, University of Michigan.  
**Psych 530/808: Comparative Animal Cognition**, Department of Psychology, University of Michigan
- 2006 **Psych 335: Introduction to Animal Behavior**, Department of Psychology, University of Michigan.
- 2006 **Workshop in Cognitive Science and Cognitive Neuroscience**, Instructor, Institute for Research in Cognitive Science, University of Pennsylvania.
- 2005 **Animal Communication, Animal Cognition, and Linguistics**, Periodic lecturer, Department of Psychology, University of Pennsylvania.
- 1995 **Bio 101: Fundamentals of Biology**, Teaching assistant, Department of Biology, Washington University, St. Louis.

## AD-HOC REFEREE

Granting agencies: National Science Foundation, Leakey Foundation

Peer-reviewed Journals: *Molecular Ecology*, *Current Biology*, *Current Anthropology*, *Animal Behaviour*, *Behavioral Ecology and Sociobiology*, *Behaviour*, *Hormones and Behavior*, *American Journal of Physical Anthropology*, *American Journal of Primatology*, *Primates*

## PROFESSIONAL SOCIETY MEMBERSHIPS

Animal Behavior Society

American Society of Primatologists