

Ian C. Gilby, Ph.D.

Curriculum Vitae, 25 September 2008

Department of Anthropology
Biological Anthropology Wing
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EDUCATION

- 2004 Ph.D. Zoology UNIVERSITY OF MINNESOTA, Minneapolis, MN
Department: Ecology, Evolution and Behavior
Dissertation: Hunting and meat sharing among the Gombe chimpanzees
Advisor: Dr. Anne E. Pusey
- 1996 B.A. Biology CARLETON COLLEGE, Northfield, MN
Cum Laude

PROFESSIONAL APPOINTMENTS

- Postdoctoral Researcher HARVARD UNIVERSITY, Anthropology Department, Cambridge, MA.
(2005 – present)
- Lecturer HARVARD UNIVERSITY, Anthropology Department, Cambridge, MA.
(2008 – present)
- Instructor HARVARD UNIVERSITY EXTENSION SCHOOL, Cambridge, MA.
(2006 – 2008)
- Visiting Lecturer BOSTON UNIVERSITY, Anthropology Department, Boston, MA.
(2007)

PUBLICATIONS

Journal articles

- Tennie, C., **Gilby, I.C.**, & Mundry, R. *In press*. The meat-scrap hypothesis: small quantities of meat may promote cooperative hunting in wild chimpanzees. Behavioral Ecology and Sociobiology
- Foster, M.W., **Gilby, I.C.**, Murray, C.M., Johnson, A., Wroblewski, E.E. & Pusey, A.E. *In press*. Alpha male chimpanzee grooming patterns: implications for dominance 'style'. American Journal of Primatology.
- Gilby, I.C.**, & Wrangham, R.W. 2008. Association patterns among wild chimpanzees (*Pan troglodytes schweinfurthii*) reflect sex differences in cooperation. Behavioral Ecology and Sociobiology 62: 1831-1842.
- Gilby, I.C.**, Eberly, L.E., & Wrangham, R.W. 2008. Economic profitability of social predation among wild chimpanzees: individual variation promotes cooperation. Animal Behaviour 75: 351-360.
- Crofoot, M.C., **Gilby, I. C.**, Wikelski, M.C., & Kays, R.W. 2008. Interaction location outweighs the competitive advantage of numerical superiority in *Cebus capucinus* intergroup contests. Proceedings of the National Academy of Sciences, USA 105: 577-581.

- Murray C.M., **Gilby I.C.**, Mane S.V., & Pusey A.E. 2008. Adult male chimpanzees inherit maternal ranging patterns. Current Biology 18: 20-24.
- Wrangham, R.W., Crofoot M.C., Lundy R., & **Gilby I.C.** 2007. Use of overlap zones in group-living primates: a test of the risk hypothesis. Behaviour 144: 1599-1619.
- Gilby, I.C.**, & Wrangham, R.W. 2007. Risk-prone hunting by chimpanzees (*Pan troglodytes schweinfurthii*) increases during periods of high diet quality. Behavioral Ecology and Sociobiology 61: 1771-1779.
- Emery Thompson, M., Kahlenberg, S.M., **Gilby, I.C.**, & Wrangham, R.W. 2007. Within-community variation in habitat quality accounts for variance in reproductive success among female chimpanzees at Kibale National Park, Uganda. Animal Behaviour 73: 501-512.
- Gilby, I.C.**, Eberly, L.E., Pintea, L., & Pusey, A.E. 2006. Ecological and social influences on the hunting behaviour of wild chimpanzees, *Pan troglodytes schweinfurthii*. Animal Behaviour 72: 169-180.
- Gilby, I.C.** 2006. Meat sharing among the Gombe chimpanzees: Harassment and reciprocal exchange. Animal Behaviour 71: 953-963.
- Stevens, J.R., & **Gilby, I.C.** 2004. A conceptual framework for non-kin food sharing: timing and currency of benefits. Animal Behaviour 67: 603-614.

Book chapters

- Gilby, I. C.** & Connor, R. C. *In press*. The role of intelligence in group hunting: Are chimpanzees different from other social predators? In: *The Mind of the Chimpanzee: Ecological and Experimental Perspectives* (Ed. by Lonsdorf, E. V., Ross, S. R. & Matsuzawa, T.). Chicago, IL: University of Chicago Press. (Expected publication: 2009).

Book Reviews

- Gilby, I.C.** 2007. Review of *Cooperation in Primates and Humans: Mechanisms and Evolution*. P. Kappeler and C. van Schaik, editors. (Springer-Verlag, 2006). American Journal of Physical Anthropology 132: 486-487.

Articles in active preparation

- Gilby, I. C.**, Emery Thompson, M., Ruane, J., Wrangham, R. W. *In prep*. Challenging a biased food sharing hypothesis: chimpanzees do not trade meat for sex.
- Gilby, I.C.**, *In prep*. Cooperation among non-kin and market effects. In: *Evolution of Primate Societies* (Ed. by Mitani, J., Call, J., Kappeler, P., Palombit, R., & Silk, J.).
- Machanda, Z.P., **Gilby, I.C.**, Wrangham, R.W. *In prep*. Male-female chimpanzee association patterns at Kanyawara.

RESEARCH EXPERIENCE

- Postdoctoral Researcher
2005 – present
- HARVARD UNIVERSITY, Department of Anthropology
Supervisor: Richard Wrangham.
Chimpanzee behavioral ecology: Social bonds, hunting, space use, male coalitions, design and management of Kibale Chimpanzee Database.

- Research Assistant
1998 – 2005
UNIVERSITY OF MINNESOTA, Ecology, Evol. & Behavior Dept.
Supervisor: Dr. Anne Pusey.
Chimpanzee behavioral ecology: Hunting, meat-sharing, male social bonds, management of Gombe Chimpanzee Database.
- Field Experience
KIBALE CHIMPANZEE PROJECT, Kibale National Park, Uganda, 2006. 2 months supervising and evaluating long-term data collection.
GOMBE STREAM RESEARCH CENTRE, Gombe N.P., Tanzania, 1999-2002. 12 months of Ph.D. dissertation research on chimpanzee meat sharing.
THE ORGANIZATION FOR TROPICAL STUDIES, Costa Rica, 1998. Graduate field course in tropical ecology.
NORTH CAROLINA STATE UNIVERSITY, Pisgah Forest, N.C., 1995. Supervisor: Dr. Roger Powell.
Black bear ecology: trapping, radio-telemetry, habitat sampling.
- Laboratory Experience
CARLETON COLLEGE, Northfield, MN, 1994.
Supervisor: Dr. Julia Emerson.
Developmental biology: differential-display PCR.

RESEARCH GRANTS

Meat sharing among the Gombe chimpanzees

L.S.B. Leakey Foundation, May, 2001	\$12,000
L.S.B. Leakey Foundation, May, 2000	\$ 8,000
Grants for Research Abroad (Univ. Minnesota)	\$ 4,000
The Dayton-Wilkie Natural History Fund, 5 awards, 1998-2002	\$ 3,700
The Explorers Club	\$ 1,200
The Animal Behavior Society	\$ 1,000
The Sigerfoos Fund (Univ. Minnesota)	\$ 700
Sigma Xi	\$ 700

Post-doctoral funding

- The National Science Foundation, Award # 0416125 to R. Wrangham. "Ecology and endocrinology of chimpanzee aggression", \$298,891.
- The National Science Foundation, Award # IIS-0431141 to S. Shekar, J. Srivastava, A. Pusey and R. Wrangham. "Spatio-temporal data analysis techniques for behavioral ecology", \$576,375.

TEACHING EXPERIENCE

- Lecturer
HARVARD UNIVERSITY (2008 – present)
HEB 1330: *Primate Social Behavior*. Co-taught with R. Wrangham.
- Visiting Lecturer
BOSTON UNIVERSITY, Department of Anthropology (2007)
AN331: *Human Origins*

Instructor	HARVARD UNIVERSITY, Department of Anthropology (2007 - present) HEB 97y: <i>Sophomore Tutorial in Human Evolutionary Biology</i>
Instructor	HARVARD UNIVERSITY EXTENSION SCHOOL (2006 - 2008) Anth E116/W: <i>Why be nice? The biological basis of cooperation</i>
Teaching Assistant	UNIVERSITY OF MINNESOTA, Ecology, Evol, & Behavior Dept. EEB 4329: <i>Primate Ecology and Evolution</i> (2003) BIOL 2012: <i>General Zoology</i> (1998, 1999, 2002)
	CARLETON COLLEGE, Biology Department. <i>Vertebrate Histology</i> (1995) <i>Evolution</i> (1994) <i>Introductory Biology</i> (1993)

TEACHING AWARDS

Harvard University	Derek Bok Center for Teaching and Learning, Certificate of Distinction in Teaching, 2007 Letters of Commendation for Distinguished Teaching Performance. Harvard University Extension School, 2007, 2008
University of Minnesota	College of Biological Sciences Award for Outstanding Performance as a Teaching Assistant, 2002

UNDERGRADUATE THESES ADVISED

- McLean, C.M. 2007. Arboreal behaviors of colobines and the slow flight hypothesis: exploring the ecology of chimpanzee prey selection. Harvard University Anthropology Department.
- Foster, M. 2005. Differential grooming patterns among alpha male chimpanzees. University of Minnesota Anthropology Department.
- Hughes, K. 2003. Chimpanzee food-sharing behavior: a closer look at individuals. University of Minnesota Anthropology Department.
- Beyer, J. 2003. Social impacts on chimpanzee hunting behavior. University of Minnesota, Department of Ecology, Evolution and Behavior.
- Johnson, J. 2001. Alliances between male chimpanzees at Gombe National Park. University of Minnesota, Department of Ecology, Evolution and Behavior.

INVITED TALKS & LECTURES

- THE UNIVERSITY OF MASSACHUSETTS, BOSTON, November, 2007. Guest lecturer. "Simple explanations for complex cooperation in free-ranging chimpanzees". ANTH 425, "Cooperation and Conflict".
- THE MIND OF THE CHIMPANZEE CONFERENCE, March, 2007. Invited speaker. "Does cognitive ability separate chimpanzees from social carnivores?"
- AMHERST COLLEGE BIOLOGY DEPARTMENT, October, 2006. Invited speaker. "Ecological and social influences on hunting by wild chimpanzees".

INTERNATIONAL PRIMATOLOGICAL SOCIETY PRECONGRESS WORKSHOP ON CHIMPANZEE SOCIAL INTELLIGENCE, June, 2006. Invited speaker. "Do the Gombe chimpanzees cooperate to hunt and share meat?"

YALE UNIVERSITY ANTHROPOLOGY DEPARTMENT, November, 2005. Invited speaker. "Hunting and meat sharing among the Gombe chimpanzees".

DARTMOUTH COLLEGE DEPARTMENT OF BIOLOGICAL SCIENCES, November, 2005. Invited speaker. "Ecological and social influences on hunting and meat sharing among wild chimpanzees".

CHIMPANZEE SSP CARE AND MANAGEMENT WORKSHOP, June, 2005. Invited speaker. "Natural history of the common chimpanzee, *Pan troglodytes*".

HAMLIN UNIVERSITY BIOLOGY DEPARTMENT, December, 2004. Invited speaker. "Hunting and meat sharing among wild chimpanzees: Simple explanations for complex phenomena".

CARLETON COLLEGE BIOLOGY DEPARTMENT, November, 2003. Invited speaker. "Hunting and meat sharing among wild chimpanzees: Costs, benefits and decision making".

CONFERENCE PRESENTATIONS (*indicates podium presentation)

- ***Gilby, I.C.**, Murray, C.M., Mane, S.V., & Pusey A.E. 2008. Solitary space use in male chimpanzees: inheritance of maternal range and avoidance of feeding competition. 77th Annual Meeting of the American Association of Physical Anthropologists. American Journal of Physical Anthropology 135 (S46): 103-104.
- ***Gilby, I.C.** 2007. Chimpanzees do not trade meat for sex. 106th Annual Meeting of the American Anthropological Association.
- ***Gilby, I.C.** & Wrangham, R.W. 2007. Risk-prone hunting by chimpanzees increases during periods of high diet quality. 44th Annual Meeting of the Animal Behavior Society.
- Gilby, I.C.**, Pusey, A.E., & Wrangham, R.W. 2007. Hunting by chimpanzees at Kanyawara and Gombe: a test of the 'meat-for-allies' hypothesis. 76th Annual Meeting of the American Association of Physical Anthropologists. American Journal of Physical Anthropology 132 (S44): 114.
- ***Gilby, I.C.**, Wrangham, R.W., & Pusey, A.E. 2006. Temporal stability of cooperative alliances among male chimpanzees at Gombe and Kanyawara. 21st Congress of the International Primatological Society. International Journal of Primatology 27(S1): 163.
- ***Gilby, I.C.** 2005. Why do wild chimpanzees share meat? At Gombe, persistent beggars prevail. 42nd Annual Meeting of the Animal Behavior Society.
- ***Gilby, I.C.** 2005. The influence of social and ecological factors on hunting decisions of the Gombe chimpanzees. The New England Biological Anthropology Symposium.
- ***Gilby, I.C.** 2004. Meat or sex? A fresh look at hunting and meat sharing among the Gombe chimpanzees (*Pan troglodytes*), using 25 years of long-term data and new field observations. 27th Annual Meeting of the American Society of Primatologists. American Journal of Primatology 62 (S1): 71.
- ***Gilby, I.C.** 2000. Why do wild male chimpanzees share meat with females? One alternative to the 'Meat for sex' hypothesis. The Apes: Challenges for the 21ST Century, Brookfield Zoo, Chicago, IL.

AD-HOC REFEREE

American Journal of Physical Anthropology
American Journal of Primatology
Animal Behaviour
Behavioral Ecology
Behavioral Ecology and Sociobiology
Current Anthropology
Ethology
Primates
Proceedings of the Royal Society of London, Series B: Biological Sciences

GRANT PROPOSAL REFEREE

The L.S.B. Leakey Foundation

PROFESSIONAL MEMBERSHIP

Animal Behavior Society
Sigma Xi, The Scientific Research Society
International Primatological Society
American Association of Physical Anthropologists
American Anthropological Association

COMPUTER SKILLS

Database management: Microsoft Access, Corel Paradox
Statistics: SAS, SPSS, JMP, MATMAN
Behavioral analysis: Noldus Observer
Web: Macromedia DreamWeaver, Adobe Photoshop

TELEVISION APPEARANCES

2005: The Dark Side of Chimps, National Geographic Channel. Interview/commentary
2005: Dragonfly TV, PBS. Featured researcher
2001: Daily Planet, Discovery Channel Canada. Interview/commentary

REFERENCES

Dr. Richard W. Wrangham
Department of Anthropology, Harvard University
wrangham@fas.harvard.edu

Dr. Anne E. Pusey
Department of Ecology, Evolution and Behavior, University of Minnesota
pusey001@umn.edu

Dr. David W. Stephens
Department of Ecology, Evolution and Behavior, University of Minnesota
dws@forager.cbs.umn.edu