

Curriculum Vitae: Ian C. Gilby

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EDUCATION

2004	Ph.D., Zoology	University of Minnesota Department of Ecology, Evolution and Behavior
1996	B.A., Biology	Carleton College

PROFESSIONAL APPOINTMENTS

2014 –	Assistant Professor, Honors Faculty	Arizona State University School of Human Evolution & Social Change Evolutionary Anthropology Program
2010 – 13	Senior Research Scientist	Duke University Department of Evolutionary Anthropology
2007	Visiting Lecturer	Boston University Department of Anthropology
2005 – 09	Post-doctoral Research Fellow & Lecturer	Harvard University Department of Human Evolutionary Biology

PUBLICATIONS

2017 Lonsdorf, E. V., Gillespie, T.R., Wolf, T.M., Lipende, I., Raphael, J., Bakuza, J., Murray, C.M., Wilson, M.L., Kamenya, S., Mjungu, D., Collins, D.A., **Gilby, I.C.**, Stanton, M.A., Terio, K.A., Barbian, H.J., Li, Y., Ramirez, M., Krupnick, A., Seidl, E., Goodall, J., Hahn, B.H., Pusey, A.E., Travis, D.A. Socioecological correlates of clinical signs in two communities of wild chimpanzees (*Pan troglodytes*) at Gombe National Park, Tanzania. *American Journal of Primatology* *in press*.

2017 Wood, B., **Gilby, I.C.** From *Pan* to man the hunter: hunting and meat sharing by chimpanzees, humans, and our common ancestor. In: *Chimpanzees and Human Evolution* (Ed. by Muller, M.N., Wrangham, R.W., & Pilbeam, D.). pp 339-382. Cambridge: Harvard University Press.

2017 **Gilby, I.C.**, Machanda, Z.P., O'Malley, R.C., Murray, C.M., Lonsdorf, E.V., Walker, K., Mjungu, D.C., Otali, E., Muller, M.N., Emery Thompson, M., Pusey, A.E., Wrangham, R.W. Predation by female chimpanzees: toward an understanding of sex differences in meat acquisition in the last common ancestor of *Pan* and *Homo*. *Journal of Human Evolution* 110: 82-94. DOI: 10.1016/j.jhevol.2017.06.015

- 2016 Bray, J., Pusey, A.E., **Gilby, I.C.** Incomplete control and concessions explain mating skew in male chimpanzees. Proceedings of the Royal Society Series B 283: 20162071. DOI: 10.1098/rspb.2016.2071
- 2016 Borries, C., Sandel, A.A., Koenig, A., Fernandez-Duque, E., Kamilar, J.M., Amoroso, C., Barton, R.A., Bray, J., Di Fiore, A., **Gilby, I.C.**, Gordon, A.D., Mundry, R., Port, M., Powell, L., Pusey, A.E., Spriggs, A., Nunn, C.L. Transparency, usability, and reproducibility: guiding principles for improving comparative databases using primates as examples. Evolutionary Anthropology 25: 232-238.
- 2016 Foerster, S., Franz, M., Murray, C.M., **Gilby, I.C.**, Feldblum, J.T., Walker, K.K., Pusey, A.E. Chimpanzee females queue but males compete for social status. Scientific Reports 6: 35404.
- 2016 Stevens, J.R., Marewski, J.N., Schooler, L.J., **Gilby, I.C.** Reflections of the social environment in chimpanzee memory: applying rational analysis beyond humans. Royal Society Open Science 3:160293.
- 2016 O'Malley, R.C., Stanton, M.A., **Gilby, I.C.**, Lonsdorf, E.V., Pusey, A.E., Markham, A.C., Murray, C.M. Reproductive state and rank influence patterns of meat consumption in wild female chimpanzees (*Pan troglodytes schweinfurthii*). Journal of Human Evolution 90: 16-28.
- 2015 **Gilby, I.C.**, Machanda, Z.P., Mjungu, D.C., Rosen, J., Muller, M.N., Pusey, A.E., Wrangham, R.W. Impact hunters catalyse cooperative hunting in two wild chimpanzee communities. Philosophical Transactions of the Royal Society Series B 370: 20150005.
- 2015 Foerster, S., McLellan, K., Schroepfer-Walker, K., Murray, C. M., Krupenye, C., **Gilby, I.C.**, Pusey, A. E. Social bonds in the dispersing sex: partner preferences among adult female chimpanzees. Animal Behaviour 105: 139-152.
- 2014 Feldblum, J. T., Wroblewski, E. E., Rudicell, R. S., Hahn, B. H., Paiva, T., Cetinkaya-Rundel, M., Pusey, A. E., **Gilby, I. C.** Sexually coercive male chimpanzees sire more offspring. Current Biology 24: 2855-2860.
- 2014 Wilson, M.L., Boesch, C., Fruth, B., Furuichi, T., **Gilby, I.C.** Hashimoto, C., Hobaiter, C., Hohmann, G., Itoh, N., Koops, K., Lloyd, J., Matsuzawa, T., Mitani, J.C., Mjungu, D.C., Morgan, D., Muller, M.N., Mundry, R., Nakamura, M., Pruett, J., Pusey, A.E., Riedel, J., Sanz, C., Schel, A., Simmons, N., Waller, M., Watts, D.P., White, F.J., Wittig, R.M., Zuberbühler, K., Wrangham, R.W. Lethal aggression in *Pan* is better explained by adaptive strategies than human impacts. Nature 513: 414-417.
- 2014 Tennie, C., O'Malley, R.C., **Gilby, I. C.** Why do chimpanzees hunt? Considering the benefits and costs of acquiring and consuming vertebrate versus invertebrate prey. Journal of Human Evolution 71: 38-45.
- 2014 Machanda, Z.P., **Gilby, I.C.**, Wrangham, R.W. Mutual grooming among adult male chimpanzees: The immediate investment hypothesis. Animal Behaviour 87: 165–174.
- 2014 Miller, J.A., Pusey, A.E., **Gilby, I.C.**, Schroepfer-Walker, K., Markham, A.C., Murray, C.M. Competing for space: female chimpanzees are more aggressive inside than outside their core areas. Animal Behaviour 87: 147-152.

- 2013 Machanda, Z.P., **Gilby, I.C.**, Wrangham R.W. Male-female association patterns among free-ranging chimpanzees (*Pan troglodytes schweinfurthii*). International Journal of Primatology 34: 917-938.
- 2013 **Gilby, I.C.**, Wilson, M.L., Pusey, A.E. Ecology rather than psychology explains co-occurrence of predation and border patrols in male chimpanzees. Animal Behaviour 86: 61-74.
- 2013 **Gilby, I.C.**, Brent, L.J.N., Wroblewski, E.E., Rudicell, R.S., Hahn, B.H., Goodall, J., Pusey, A.E. Fitness benefits of coalitionary aggression in male chimpanzees. Behavioral Ecology and Sociobiology 67: 373-381.
- 2012 Crofoot, M.C., **Gilby, I.C.** Cheating monkeys undermine group strength in enemy territory. Proceedings of the National Academy of Sciences, USA 109: 501-505.
- 2012 **Gilby, I.C.**, Nonkin cooperation: reciprocity, markets and mutualism. In: *Evolution of Primate Societies* (Ed. by Mitani, J., Call, J., Kappeler, P., Palombit, R., & Silk, J.). pp 514-530. Chicago, IL: University of Chicago Press.
- 2012 Pintea, L., Pusey, A.E., Wilson, M.L., **Gilby, I.C.**, Collins, D.A., Kamenya, S., Goodall, J. Long-term ecological changes affecting the chimpanzees of Gombe National Park, Tanzania. In: *Long Term Changes in Africa's Rift Valley: impacts on biodiversity and ecosystems* (Ed. by Plumptre, A.J.). pp 194-210. New York: Nova Science Publishers.
- 2011 Lonsdorf, E.V., Murray, C.M., Lonsdorf, E.V., Travis, D.A., **Gilby, I.C.** Chosy, J., Pusey, A.E., Goodall, J. A retrospective analysis of factors correlated to chimpanzee (*Pan troglodytes schweinfurthii*) respiratory health at Gombe National Park. EcoHealth 8:26-35.
- 2010 **Gilby, I.C.**, Emery Thompson, M., Ruane, J., Wrangham, R.W. No evidence of short-term exchange of meat for sex among chimpanzees. Journal of Human Evolution 59: 44-53.
- 2010 **Gilby, I.C.**, Pokempner, A. A., Wrangham, R. W. A direct comparison of scan and focal sampling methods for measuring wild chimpanzee feeding behaviour. Folia Primatologica 81: 254-264.
- 2010 **Gilby, I.C.**, Connor, R.C. 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.). pp 220-233. Chicago, IL: University of Chicago Press.
- 2009 Foster, M.W., **Gilby, I.C.**, Murray, C.M., Johnson, A., Wroblewski, E.E., Pusey, A.E. Alpha male chimpanzee grooming patterns: implications for dominance 'style'. American Journal of Primatology 71: 136-144.
- 2009 Tennie, C., **Gilby, I.C.**, Mundry, R. The meat-scrap hypothesis: small quantities of meat may promote cooperative hunting in wild chimpanzees. Behavioral Ecology and Sociobiology 63: 421-431.
- 2008 **Gilby, I.C.**, Wrangham, R.W. Association patterns among wild chimpanzees (*Pan troglodytes schweinfurthii*) reflect sex differences in cooperation. Behavioral Ecology and Sociobiology 62: 1831-1842.

- 2008 **Gilby, I.C.**, Eberly, L.E., Wrangham, R.W. Economic profitability of social predation among wild chimpanzees: individual variation promotes cooperation. Animal Behaviour 75: 351-360.
- 2008 Crofoot, M.C., **Gilby, I.C.**, Wikelski, M.C., Kays, R.W. 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.
- 2008 Murray C.M., **Gilby I.C.**, Mane S.V., Pusey A.E. Adult male chimpanzees inherit maternal ranging patterns. Current Biology 18: 20-24.
- 2007 Wrangham, R.W., Crofoot M.C., Lundy R., **Gilby I.C.** Use of overlap zones in group-living primates: a test of the risk hypothesis. Behaviour 144: 1599-1619.
- 2007 **Gilby, I.C.**, Wrangham, R.W. Risk-prone hunting by chimpanzees (*Pan troglodytes schweinfurthii*) increases during periods of high diet quality. Behavioral Ecology and Sociobiology 61: 1771-1779.
- 2007 Emery Thompson, M., Kahlenberg, S.M., **Gilby, I.C.**, Wrangham, R.W. 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.
- 2006 **Gilby, I.C.**, Eberly, L.E., Pintea, L., Pusey, A.E. Ecological and social influences on the hunting behaviour of wild chimpanzees, *Pan troglodytes schweinfurthii*. Animal Behaviour 72: 169-180.
- 2006 **Gilby, I.C.** Meat sharing among the Gombe chimpanzees: Harassment and reciprocal exchange. Animal Behaviour 71: 953-963.
- 2004 Stevens, J.R. **Gilby, I.C.** A conceptual framework for non-kin food sharing: timing and currency of benefits. Animal Behaviour 67: 603-614.

BOOK REVIEWS & COMMENTARIES

- 2012 **Gilby, I.C.** Comment on Tomasello et al., "Two key steps in the evolution of human cooperation: The interdependence hypothesis". Current Anthropology 53: 686-687.
- 2007 **Gilby, I.C.** 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.

CONFERENCE PROCEEDINGS

- 2001 **Gilby, I.C.** Why do wild male chimpanzees share meat with females? One alternative to the 'Meat for sex' hypothesis. In *The Apes: Challenges for the 21ST Century*, Chicago: Chicago Zoological Society. pp 321-323.

RESEARCH GRANTS

- 2016-2018 The National Science Foundation, Award DBI #1624552. PI: D.C. Mjungu; Co-PIs: **I.C. Gilby**, A.E. Pusey, C.M. Murray, D.A. Collins. "FSML: Improving collaborative research infrastructure at Gombe National Park, Tanzania", \$329,173.

- 2016-2021 The National Science Foundation, Award IOS #1457260. Co-PIs: A. Pusey & **I.C. Gilby**. "LTREB: Female settlement patterns and social relationships in chimpanzees, a male-philopatric species", \$447,939.
- 2011-15 The National Science Foundation, Award #1052693. Co-PIs: A. Pusey & **I. C. Gilby**. "LTREB: Female settlement patterns and social relationships in chimpanzees, a male-philopatric species", \$422,300.
- 2004-09 The National Science Foundation, Award #0416125. PI: R. Wrangham. "LTREB: Ecology and endocrinology of chimpanzee aggression", \$298,891. (Key personnel).
- 2004-07 The National Science Foundation, Award # IIS-0431141. Co-PIs: S. Shekar, J. Srivastava, A. Pusey, R. Wrangham. "Spatio-temporal data analysis techniques for behavioral ecology", \$576,375. (Key personnel).
- 1998-2002 Multiple awards for Ph.D. dissertation research: L.S.B. Leakey Foundation (\$20,000); University of Minnesota (\$4,000); Dayton-Wilkie Natural History Fund (\$3,700); The Animal Behavior Society (\$1000); The Explorers Club (\$1,200); Sigma Xi (\$700).

CONFERENCE PRESENTATIONS

*PODIUM

- 2016 ***Gilby, I.C.**, Machanda, Z.P., O'Malley, R.C., Murray, C.M., Mjungu, D.C., Schroepfer-Walker, K., Otali, E., Muller, M.N., Emery Thompson, M., Wrangham, R.W., Pusey, A.E. Sex differences in meat acquisition in three wild chimpanzee communities. 26th Congress of the International Primatological Society, Chicago, IL.
- 2016 ***Gilby, I.C.**, Machanda, Z.P., O'Malley, R.C., Murray, C.M., Mjungu, D.C., Otali, E., Muller, M.N., Emery Thompson, M., Wrangham, R.W., Pusey, A.E. Predation by female chimpanzees at Gombe and Kibale: toward an understanding of sex differences in meat acquisition among early hominins. *American Journal of Physical Anthropology*. 159 (S62): 154.
- 2015 **Gilby, I.C.**, Machanda, Z.P., Mjungu, D.C., Muller, M.N., Pusey, A.E., Wrangham, R.W. Inter-individual variation in communal hunting in three wild chimpanzee communities. *American Journal of Physical Anthropology* 156 (S60): 144.
- 2014 ***Gilby, I.C.**, Krupenye, C., Lee, H., Feldblum, J.T., Pusey, A.E. Whom to trust? Social bonds and allegiance fickleness among the Gombe chimpanzees. *American Journal of Physical Anthropology* 153 (S58): 124-125.
- 2012 ***Gilby, I.C.**, Wilson, M.L. Catalytic cooperators: Individual effects on hunting and patrolling among male chimpanzees. *American Journal of Physical Anthropology* 147 (S54): 150-151.
- 2011 ***Gilby, I.C.** Consequences of alpha male chimpanzee dominance strategies. *American Journal of Physical Anthropology* 144 (S52): 141.
- 2010 ***Gilby, I.C.** Alpha male chimpanzees at Gombe: Consequences of dominance style. 23rd Congress of the International Primatological Society, Kyoto, Japan.
- 2009 ***Gilby, I.C.**, Wilson, M.W., Mohlenhoff, K.A., Pusey, A.E. The function of coalitionary aggression among wild chimpanzees. *American Journal of Physical Anthropology* 138 (S48): 133.

- 2008 ***Gilby, I.C.**, Murray, C.M., Mane, S.V., Pusey A.E. Solitary space use in male chimpanzees: inheritance of maternal range and avoidance of feeding competition. *American Journal of Physical Anthropology* 135 (S46): 103-104.
- 2007 ***Gilby, I.C.** Chimpanzees do not trade meat for sex. 106th Annual Meeting of the American Anthropological Association, Washington D.C.
- 2007 ***Gilby, I.C.** & Wrangham, R.W. Risk-prone hunting by chimpanzees increases during periods of high diet quality. 44th Annual Meeting of the Animal Behavior Society, Burlington, VT.
- 2007 **Gilby, I.C.**, Pusey, A.E., Wrangham, R.W. Hunting by chimpanzees at Kanyawara and Gombe: a test of the 'meat-for-allies' hypothesis. *American Journal of Physical Anthropology* 132 (S44): 114.
- 2006 ***Gilby, I.C.**, Wrangham, R.W., & Pusey, A.E. Temporal stability of cooperative alliances among male chimpanzees at Gombe and Kanyawara. *International Journal of Primatology* 27(S1): 163.
- 2005 ***Gilby, I.C.** Why do wild chimpanzees share meat? At Gombe, persistent beggars prevail. 42nd Annual Meeting of the Animal Behavior Society, Salt Lake City, UT..
- 2004 ***Gilby, I.C.** 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. *American Journal of Primatology* 62 (S1): 71.

TEACHING

Arizona State University	ASM 104: <i>Bones, Stones and Human Evolution</i> ASB 210: <i>Human Sexuality – Anthropological Perspectives</i> ASM 300: <i>Anthropological Sciences Seminar</i> ASM 443/543: <i>Primatology</i> ASM 497/591: <i>Our Inner Ape: Great ape behavioral ecology</i>
Duke University	EA-280s: <i>Why be nice? The biological basis of cooperation</i>
Harvard University	HEB 1330: <i>Primate Social Behavior</i> HEB 1383: <i>Why be nice? The biological basis of cooperation</i>
Boston University	AN331: <i>Human Origins</i>

TEACHING AWARDS

Harvard University	Derek Bok Center for Teaching and Learning <i>Certificate of Distinction in Teaching (x3)</i> Harvard University Extension School <i>Commendation, Distinguished Teaching Performance (x2)</i>
University of Minnesota	<i>Outstanding Performance as a Teaching Assistant</i>