

Brian Hare

Sofja Kovalevskaja Awardee

Hominoid Psychology Research Group
& Duke Canine Cognition Center
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EDUCATION

Harvard University Ph.D. Biological Anthropology, Jan. 2004.
Ph.D. Advisor: Dr. Richard Wrangham
Title: Using comparative studies of primate and canid social cognition to model our Miocene minds.
M.A. Anthropology, 2000.

Emory University B.A. in Anthropology and Psychology (*summa cum laude*), 1998.
Co-Major in Human and Natural Ecology, 1998.

PROFESSIONAL EXPERIENCE

Duke University, Evolutionary Anthropology & Center for Cognitive Neuroscience
Associate Professor, 2012-

Duke University, Evolutionary Anthropology & Center for Cognitive Neuroscience
Assistant Professor, 2008-2011

Max Planck Institute for Evolutionary Anthropology
Director of Hominoid Psychology Research Group, 2005-2007.

Max Planck Institute for Evolutionary Anthropology
Scientific Staff and Postdoctoral Associate, 2004.

RESEARCH EXPERIENCE

Africa

*Tchimpounga chimpanzee sanctuary, Pointe-Noire, *Republic of Congo*, research coordinator, 2005-
*Lola Ya Bonobo Sanctuary, Kinshasa, *Democratic Republic of Congo*, research coordinator, 2005-
*Ngamba Island Chimpanzee Sanctuary, Entebbe, *Uganda*, researcher, 2004-2008
*Kibale Chimpanzee Project, Kibale National Park, *Uganda*, student researcher, 1997.

Eurasia

- *Institute of Genetics, National Academy of Russian Science, *Russia*, visiting researcher, 2003.
- *Max Planck Institute for Evolutionary Anthropology, *Germany*, researcher, 2001-2007.
- *Institute for Psychology, National Council for Research, *Italy*, visiting researcher, 2000.

North America

- *Yerkes Regional Primate Research Center, *U.S.A.*, student researcher, 1995-1999.
- * Duke Lemur Center, *U.S.A.* researcher, 2008-
- * Duke Canine Cognition Center, Director, 2009 –

“Species” Studied in Publications (N=20)

Humans (infant and adult), chimpanzees (infant and adult), bonobos (infant and adult), gorillas, orangutans, pigtailed macaques, stumptailed macaques, rhesus macaques (infant and adult), sooty manglebeys, capuchin monkeys, ringtailed lemurs, mongoose lemurs, red ruffed lemurs, blue eyed black lemurs, shifaka, aye-aye, wolves, New Guinea singing dogs, domestic dogs (infant and adult), silver foxes (infants), domestic foxes (infants).

TEACHING EXPERIENCE

Previously Advised:

1 post doctoral fellow (Dr. Alicia Melis); advised 3 Ph.D. student (Dr. Evan Maclean; Dr. Alexandra Rosati; Dr. Jingzhi Tan); co-advised 3 Ph.D. students (Dr. Alicia Melis; Dr. Esther Herrmann; Dr. Victoria Wobber); 11 Duke undergraduate thesis students.

Currently advising:

2 post-doctoral fellows (Dr. Evan Maclean and Dr. Jingzhi Tan); 2 Ph.D. students (Chris Krupenye; Aleah Bowie); co-advising 2 Ph.D. students (Kara Schroepfer; Courtnea Rainey); 3 Duke undergraduate thesis students.

Teaching

Cognitive Evolution Lab, Evolutionary Anthropology, Duke U., lab course, 2008-
Human Cognitive Evolution, Evolutionary Anthropology, Duke U., lecture, 2008-
Evolution of Social Brain & Mind, Evolutionary Anthropology, Duke U., seminar, 2008-
Partnering and Parenting, Evolutionary Anthropology, Duke U., seminar, 2011

AWARDS

Duke Alumni Faculty Fellow. 2013
Pop Tech Science Fellow. 2010
Young Innovator Award, Smithsonian Institute. 2007.
Sofia Kovalevskaja Award, Alexander Humboldt Foundation. 2004.
Bok Center Award for Excellence in Teaching, Harvard University, 2000, 2002.

GRANT HISTORY

2004-08: P.I. Sofia Kovalevskaja Award, Alexander Humboldt Foundation: \$1,040,000.

2008-11: Co P.I. with Charlie Nunn “How Does Cognition Evolve?” National Evolutionary Synthesis Center (NESCent) Working Group: \$46,800.

2008-13: Co P.I. on NSF HOMINID Grant with Greg Wray and Christine Wall “Genes, traits, and the evolution of human diet: an integrative approach”: \$1,600,000.

2009-11: Consultant on European Research Council Grant with Svante Paabo (Max Planck Institute for Evolutionary Anthropology) “Genomic and Phenotypic Evolution of Bonobos, Chimpanzees and Humans”: \$100,000.

2010-13: P.I. NSF Award “Bonobos, Chimpanzees and the Developmental Origins of Human Cognition”: \$297,000.

2011-2012: P.I. on Leakey Grant “spatial memory development in chimpanzees and Bonobos” to support Ph.D. research of Alexandra Rosati: \$13,000.

2012-2014: P.I. on Office of Naval Research Grant “Identifying cognitive traits of successful IED detector dogs”: \$1,600,000.

2012-2013: P.I. on NIH R03 Grant “Identifying cognitive traits in successful companion dogs”: \$150,000.

2014-2015: co-P.I. on AKC Health Foundation Grant with Evan Maclean “Identifying cognitive and temperamental traits that predict service dog performance”: \$100,000.

EDITORIAL RESPONSIBILITIES

Consulting Editor for *Animal Behaviour*, 2006-2008.

Editorial Advisory Board for *Primates*, 2008-2011

Associate Editor for *Primates*, 2011-

SCIENTIFIC CONSULTATIONS & BOARD MEMBERSHIPS

Member of Research Council, Jane Goodall Institute, U.S.A. 2007-2009

Scientific Coordinator for Lola ya Bonobo, 2007-

Treasurer of Board, Friends of Bonobos, 2008-

Canines Inc., Founder, Board Member and Chief Scientific Officer, 2012-

AD HOC REFEREE

American Psychologist, Animal Behaviour (recognized as top reviewer in 2008), Animal Cognition, Behaviour, Behavioural Genetics, Behavioral Processes, Behavioral and Brain Science, Cambridge University Press, Chicago University Press, Cognitive Science, Cognition, Culture and Psychology, Current Anthropology, Current Biology, Current Directions in Psychological Sciences, Developmental Psychobiology, Developmental Psychology, Developmental Science, Evolutionary Anthropology, Human Evolution, Infancy, International Journal of Primatology, Journal of Comparative Psychology, Journal of Human Nature, Journal of Interaction Studies, Mammalia, Neuron, Primates, Proceedings of the National Academy of Sciences, Proceedings of the Royal Society: Biological Sciences, Psychological Bulletin, Psychological Science, Public Library of Science One, Science Magazine, Social Cognitive and Affective Neuroscience, Trends in Cognitive Sciences.

GRANT REFEREE

European Research Council, European Union.

MacArthur Foundation

National Institute of Mental Health, U.S.A.

National Institute of Health, U.S.A.

National Science Foundation, U.S.A.

The Leakey Foundation, U.S.A.

Austrian Science Fund, Austria

Swiss National Science Foundation, Switzerland

BOOKS

Hare, B. & Woods, V. 2013. *The Genius of Dogs*. Dutton: Penguin Group. (N.Y.T. Best Seller).

PUBLICATIONS

1998

Tomasello, M., Call, J. & Hare, B. 1998. Five primate species follow the visual gaze of conspecifics. *Animal Behaviour*. **55**, 1063-1069.

Call, J., Hare, B. & Tomasello, M. 1998. Chimpanzee gaze following in an object choice task. *Animal Cognition*. **1**, 89-99.

Hare, B., Call, J. & Tomasello, M. 1998. Communication of food location between human and dog (*Canis familiaris*). *Evolution of Communication*. **2**, 137-159.

1999

Hare, B. & Tomasello, M. 1999. Domestic dogs (*Canis familiaris*) use human and conspecific social cues to locate hidden food. *Journal of Comparative Psychology*. **113**, 1-5.

Itakura, S., Agnetta, B., Hare, B. & Tomasello, M. 1999. Chimpanzees use human and conspecific social cues to locate hidden food. *Developmental Science*. **2**, 448-456.

Tomasello, M., Hare, B. & Agnetta, B. 1999. Chimpanzees follow gaze direction geometrically. *Animal Behaviour*. **58**, 769-777.

2000

Hare, B., Call, J., Agnetta, B. & Tomasello, M. 2000. Chimpanzees know what conspecifics do and do not see. *Animal Behaviour*. **59**, 771-786

Wrangham, R., Wilson, M., Hare, B. & Wolfe, N. 2000. Chimpanzee predation and the ecology of microbial exchange. *Microbial Ecology in Health and Disease*. **12**, 186-188.

Agnetta, B., Hare, B. & Tomasello, M. 2000. Cues to food locations that domestic dogs (*Canis familiaris*) of different ages do and do not use. *Animal Cognition*. **3**, 107-112.

2001

Tomasello, M., Hare, B. & Fogleman, T. 2001. The ontogeny of gaze following in chimpanzees (*Pan troglodytes*) and rhesus macaques (*Macaca mulatta*). *Animal Behaviour*. **61**, 335-343.

Hare, B., Call, J. & Tomasello, M. 2001. Do chimpanzees know what conspecifics know? *Animal Behaviour*. **61**, 139-151.

Hare, B. 2001. Can competitive paradigms increase the validity of social cognitive experiments on primates? *Animal Cognition*. **4**, 269-280.

2002

Hare, B., Brown, M., Williamson, C. & Tomasello, M. 2002. The domestication of social cognition in dogs. *Science*. **298**, 1636-1639.

Hare, B. & Wrangham, R. 2002. Integrating two evolutionary models for the study of social cognition. In: *The Cognitive Animal* (Ed. by Beckoff, M., Allen, C. & Burghardt, G.): The MIT Press. 363-369.

2003

Hare, B., Addessi, E., Call, J., Tomasello, M. & Visalberghi, E. 2003. Do capuchin monkeys (*Cebus apella*) know what conspecifics do and do not see? *Animal Behaviour*. **65**, 131-142.

Tomasello, M., Call, J., Hare, B. 2003. Chimpanzees understand psychological states- the question is which ones and to what extent. *Trends in Cognitive Science*. **7**, 153-156.

Tomasello, M., Call, J., Hare, B. 2003. Chimpanzees versus humans: its not that simple. *Trends in Cognitive Science*. **7**, 239-240.

2004

Hare, B. & Tomasello, M. 2004. Chimpanzees are more skillful in competitive than in cooperative cognitive tasks. *Animal Behaviour*. **68**, 571-581.

Call, J., Hare, B., Carpenter, M. & Tomasello, M. 2004. "Unwilling" versus "unable": chimpanzees understanding of human intentional action. *Developmental Science*. **7**, 488-498.

Hare, B. 2004. Dogs use humans as tools: is it the secret to their success? *Encyclopedia of Animal Behaviour*. Beckoff, M. (ed). Greenwood Publishing Group.

Hare, B. 2004. Using comparative studies of primate and canid social cognition to model our Miocene minds. Dissertation. Department of Anthropology, Harvard University.

2005

Hare, B., Plyusnina, I., Iganacio, N., Wrangham, R., Trut, L. 2005. Social cognitive evolution in captive foxes is a correlated by-product of experimental domestication. *Current Biology*. **16**, 226-230.

Hare, B. & Tomasello, M. 2005. Human-like social skills in dogs? *Trends in Cognitive Sciences*. **9**, 439-444.

Hare, B. & Tomasello, M. 2005. The emotional reactivity hypothesis and cognitive evolution. *Trends in Cognitive Sciences*. **10**, 464-465.

2006

Melis, A., Hare, B., Tomasello, M. 2006. Chimpanzees recruit the best collaborators. *Science*. **311**, 1297-1300.

Hare, B., Call, J., Tomasello, M. 2006. Chimpanzees deceive a human by hiding. *Cognition*. **101**: 495-514.

Melis, A, Hare, B., Tomasello, M. 2006. Engineering chimpanzee cooperation: social tolerance constrains cooperation. *Animal Behaviour*. **72**, 275-286.

Jensen, K., Hare, B., Call, J., Tomasello, M. 2006. Are chimpanzees spiteful or altruistic when sharing food? *Proceedings of the Royal Society B*. **273**, 1013-1021.

Hare, B. & Tomasello, M. 2006. Behavioral genetics of dog cognition: human-like social skills in dogs are heritable and derived. *The Dog and its Genome* (E. Ostrander, Urs Giger and Kerstin Lindblad-Toh, Eds). Cold Spring Harbor Laboratory Press, New York, 497-514.

2007

Hare, B. 2007. Patience reveals chimpanzee cognitive development. Review of *Cognitive Development in Chimpanzees*. Ed. by Matsuzawa, T., Tomonaga, M., & Tanaka, M. *Nature Neuroscience*. **10**, 1077.

Hare, B. 2007. From nonhuman to human mind: what changed and why. *Current Directions in Psychological Science*. **16**, 60-64.

Burnham, T. & Hare, B. 2007. Does involuntary neural activation increase public goods contributions in human adults? *Human Nature*. **18**. 88-108.

Tomasello, M., Hare, B., Call, J., Leehman, H. 2007. Reliance on head versus eye gaze in great apes and human infants. *Journal of Human Evolution*. **52**, 314-320.

Hare, B., Melis, A., Woods, V., Hastings, S., Wrangham, R. 2007. Tolerance allows bonobos to outperform chimpanzees in a cooperative task. *Current Biology*. **17**, 619-623.

Warnaken, F., Hare, B., Melis, A., Hanus, D., Tomasello, M. 2007. Spontaneous altruism by chimpanzees and children. *Public Library of Science: Biology*. **5**, 1-7.

Herrmann, E., Call, J., Hernández-Lloreda, M., Hare, B., Tomasello, M. 2007. The cultural intelligence hypothesis: humans evolved specialized skills of social cognition. *Science*. **317**, 1360-1365.

Rosati, A., Stevens, J., Hare, B., Hauser, H. 2007. The origins of human patience. *Current Biology*. **17**, 1-6.

2008

- Herrmann, E., Call, J., Hernández-Lloreda, M., Hare, B., Tomasello, M. 2008. Humans are valid experimenters for human-nonhuman ape comparisons. *Science*. **319**, 570.
- Hare, B. 2008. Review of *Baboon Metaphysics*. By Cheney, D. & Seyfarth, R. *Animal Behaviour*. **76**, 253-255.
- Heilbronner, S., Rosati, A., Stevens, J., Hare, B., Hauser, M. 2008. A fruit in the hand or two in the bush? Ecological pressures select for divergent risk preferences in chimpanzees and bonobos. *Proceedings of the Royal Society: Biology Letters*. **4**, 246-249.
- Hare, B. 2008. Review of *Dogs: Behavior, Cognition and Evolution*. By Miklosi, A. *Current Biology*. **18**, R543-R544.
- Wobber, V., Hare, B., Wrangham, R. 2008. Great apes prefer cooked foods. *Journal of Human Evolution*. **55**, 340-348.
- Melis, A., Hare, B., Tomasello, M. 2008. Do chimpanzees reciprocate received favors? *Animal Behaviour*. **76**, 951-962.
- Andre, C., Kamate, C., Mabonzo, P., Morel, D., Hare, B. 2008. The conservation value of Lola ya Bonobo Sanctuary. Furuichi, T., Thompson, J. (Eds) *The Bonobos: behavior, ecology and conservation*. Springer, New York. 303-322.
- Ross, S. Lukas, K., Lonsdorf, E., Stoinski, T., Hare, B., Shumaker R., and Goodall, J. 2008. Inappropriate use and portrayal of chimpanzees. *Science*. **319**, 1487.

2009

- Hare, B. 2009. What is the effect of affect on bonobo and chimpanzee problem solving? *The Neurobiology of the Umwelt: how living beings perceive the world* (A. Berthoz & Y. Christen, Eds.). Springer Press. 89-102.
- Wobber, V. Hare, B. 2009. Testing the social dog hypothesis: are dogs also more skilled than chimpanzees in non-communicative social tasks? *Behavioral Processes*. **81**, 423-428.
- Rosati, A. & Hare, B. 2009. Beyond the model species: diversity in gaze following skills across primates. *Current Opinion in Neurobiology*. **19**, 45-51.
- Woods, V. & Hare, B. 2009. Out of our minds: how did *Homo sapiens* come down from the trees, and why did no one follow? In: *Whats Next?: Dispatches from the future of science*. In: *Innovative Science* (Brockman, M. Ed). Vintage Books. p. 170-184.
- Wobber, V., Koler-Matznick, J., Hare, B., Wrangham, R., Tomasello, M. 2009. Breed differences in domestic dogs' comprehension of human communicative signals. *Interaction Studies*. **10**, 206-224.

Melis, A., Hare, B., Tomasello, M. 2009. Chimpanzees negotiate in a bargaining game. *Evolution and Human Behaviour*. **30**, 381-392.

McIntyre, M., Herrmann, E., Wobber, V., Halbax, M., Mohamba, C., deSousa, N., Atenica, R., Cox, D. & Hare, B. 2009. Bonobos have more human-like second-to-fourth finger length ratio (2D:4D) than chimpanzees: a hypothesized indication of lower prenatal androgens. *Journal of Human Evolution*. **56**, 361-365.

2010

Hare, B., Rosati, A., Breaur, J., Kaminski, J., Call, J., Tomasello, M. 2010. Dogs are more skilled than wolves with human social cues: a response to Udell et al (2008) and Wynne et al. (2008). *Animal Behaviour*. **79**, e1-e6.

Vlemmings, P., Hare, B., Call, J. 2010. Reaching around barriers: The performance of great apes and 3- to 5-year-old children on an inhibitory control task. *Animal Cognition*. **13**, 273-285.

Rosati, A., Santos, L., Hare, B. 2010. Primate social cognition: Thirty years after Premack and Woodruff. In: *Cognitive Neuroethology* (Gazenifar A. & Platt M. Eds). Oxford University Press. 117-142

Hare, B. Kwetuenda, S. 2010. Bonobos voluntarily share their own food with others. *Current Biology*. **20**, R230-231.

Wobber, V., Wrangham, R., Hare, B. 2010. Evidence for delayed development of social behavior and cognition in bonobos relative to chimpanzees. *Current Biology*. **20**, 226-230.

Herrmann, E., Call, J., Hernández-Lloreda, M., Hare, B., Tomasello, M. 2010. Cognition in chimpanzees and children has different factor structure. *Psychological Science*. **21**, 102-110

Wobber, V., Wrangham, R. & Hare, B. 2010. Application of the heterochrony framework to the study of behavior and cognition. *Communicative and Integrative Biology*. **3**, 1-2.

Wobber, V., Hare, B., Maboto, J., Lipson, S. Wrangham, R., Ellison, P. 2010. Differential reactivity of steroid hormones in chimpanzees and bonobos when anticipating food competition. *Proceedings of the National Academy of Sciences*. **107**, 12457-12462.

Herrmann, E., Hare, B. Call, J., Tomasello, M. 2010. Differences in the Cognitive Skills of Bonobos and Chimpanzees. *PLoS One*. **5**, e12438.

Woods, V. & Hare, B. 2010. African sanctuaries as a new resource for non-invasive research on great apes. *Encyclopedia of Applied Animal Behavior and Welfare*. Ed. D. Mills. CABI publishing.

Rosati, A., & Hare, B. 2010. From social behavior to social cognition in primates. *Encyclopedia of Behavioral Neuroscience*, edited by George Koob, Michel Le Moal and Richard Thompson. Erlbaum.

Melis, A., Warneken, F., Hare, B. 2010. Collaboration and helping in chimpanzees. *The Chimpanzee Mind* (Elizabeth Longsdorf & Steve Ross & Tetsuro Matsuzawa, Eds.), Springer. 166-183.

Rosati, A. & Hare, B. 2010. Chimpanzee and bonobos distinguish between risk and ambiguity. *Proceedings of Royal Society: Biology Letters*. 7, 15-18.

2011

Woods, V. & Hare, B. 2011. Bonobo but not chimpanzee infants use socio-sexual contact with peers. *Primates*. **52**, 111-116.

Hare, B. 2011. From hominoid to hominid mind: what changed and why? *Annual Review of Anthropology*, **40**. 293-309.

Sandel, A., Maclean, E., Hare, B. 2011. Convergent evolution in the social cognitive abilities of lemurs. *Animal Behaviour*. **81**, 925-931.

Wobber, T., Hare, B. 2011. Psychological health of orphan bonobos and chimpanzees in African sanctuaries. *PLoS One*, **6**, e17147.

Hare, B. & Tan, J. 2011. What cooperative abilities did we inherit as an ape? *The Primate Mind*. De Waal, F. & Ferrari, P. (eds). Harvard Press.

Herrmann, E., Hare, B. Cisseski, J., Tomasello, M. 2011. The origins of human temperament: children avoid novelty more than other apes. *Developmental Science*. **14**, 1393-1405.

Schroepfer, K., Rosati, A., Chartrand, T., Hare, B. 2011. Commercial's with chimpanzees "actors" negatively impact conservation and welfare attitudes. *PLoS One*. **6**, e26048.

2012

MacLean, E., Matthews, L., Hare, B., Nunn, C., Anderson, R., Aureli, F., Brannon, E., Call, J., Drea, C., Emery, N., Haun, D., Herrmann, E., Jacobs, L., Platt, M., Rosati, A., Sandel, A., Schroepfer, K., Seed, A., Tan, J., van Schaik, C., Wobber, V. 2011. How does cognition evolves?: phylogenetic comparative psychology. *Animal Cognition*. **15**, 223-238.

Maclean, E & Hare, B. 2012. Bonobos and chimpanzees infer the target of an actor's attention. *Animal Behaviour*. **83**, 345-353.

Hare, B., Wobber, T. & Wrangham, R. 2012. The self-domestication hypothesis: bonobo psychology evolved due to selection against male aggression. *Animal Behaviour*. **83**, 573-585.

- Rosati, A. & Hare, B. 2012. Decision-making across social contexts: competition increases risk-prone choices in chimpanzees and bonobos. *Animal Behaviour*. **84**, 869-879.
- Rosati, A. & Hare, B. 2012 . Chimpanzees and bonobos exhibit divergent spatial memory development. *Developmental Science*. **15**, 840-853.
- Nunn, C. & Hare, B. 2012. Pathogen flow: what we need to know. *American Journal of Primatology*. **74**, 1084-1087.
- Herrmann, E., Keupp, S., Hare, B., Vaish, A., ²⁰¹³Tomasello, M. 2013. Direct and Indirect reputation formation in great apes and human children. *Journal of Comparative Psychology*, **127**, 63-75.
- Maclean, E. & Hare, B. 2013. spontaneous triadic play in bonobos and chimpanzees. *Journal of Comparative Psychology*. doi: [10.1037/a0030935](https://doi.org/10.1037/a0030935)
- Tan, J. & Hare, B. 2013. bonobos share with strangers. *PLoS One*. **8(1)**: e51922.
- Wobber, V. Hare, B., Lipson, S. Wrangham, R. Ellison, P. 2013. Different ontogenetic patterns of testosterone production reflect divergent male reproductive strategies in chimpanzees and bonobos. *Physiology & Behavior*, **116**, 44-53.
- Rosati, A. & Hare, B. 2013. Emotion and motivation in chimpanzee decision making. *PLoS One*, **8 (5)**, e63058.
- Rosati, A., Wobber, V., Warneken, F., Melis, A., Herrmann, E., Kaminski, J., Tan, J., Krupenye, C., Schroepfer, K., Hare, B. 2013. Assessing the psychological health of captive and wild apes: a response to Ferdowsian et al. in press. *Journal of Comparative Psychology*. doi: [10.1037/a0029144](https://doi.org/10.1037/a0029144).
- Wobber, T., Herrmann, E., Hare, B., Wrangham, R., Tomasello, M. in press. The evolution of cognitive development in *Pan* and *Homo*. *Developmental Psychobiology*.
- Bray, E., Maclean, E., Hare, B. in press. Context-specificity of inhibitory control in dogs. *Animal Cognition*.
- Maclean, E., Sandel, A., Bray, J., Oldenkamp, R., Hare, B. in press. Group size predicts social but not nonsocial cognition in lemurs. *PLoS One*.
- Wobber, V. & Hare, B. in press. The evolution of human socio-cognitive development. *In: The Development of Social Cognition*. Banaji, M. & Gelman, S. (eds). Harvard Press.
- Hare, B. in press. Is human free will prisoner to primate, ape and hominin preferences and biases? *In: Moral Psychology: Free Will and Moral Responsibility*. Edited by W. Sinnott-Armstrong. MIT Press.

Bray, J., Kruprenye, C., Hare B., in press. Are *Lemur catta* sensitive to the visual and auditory perspective of others? *Animal Cognition*.

Pontzer, H., Raichlen, D., Gordon, A., Schroepfer-Walker, K., Hare, B., Dunsworth, H., Wood, B., Isler, K., Burkart, J., Irwin, M., Shumaker, R., Lonsdorf, E., Ross, S. in press. Primate energy expenditure and life history. *Proceedings of the National Academy of Sciences*.

SUBMITTED MANUSCRIPTS (N= 11)

Rosati, A., Rodriguez, K. & Hare, B. Comparisons of spatial memory in six lemur species.

Maclean, E., Krupenyne, C. & Hare, B. submitted. Do dogs understand human attention?

Cieri, R., Churchill, S., Franciscus, R., Tan, J., Hare, B., submitted. Craniofacial feminization, social tolerance and the origins of behavioral modernity.

Reddy, R., Maclean, E., Sandel, A., Hare, B. Comparison of social and non-social inhibitory control in six lemur species.

MacLean, E., Hare, B., Nunn, C., Addessi, E., Amici, F., Anderson, R., Aureli, F., Baker, J., Bania, A., Barnard, A., Boogert, N., Brannon, E., Bray, E., Bray, J., Brent, L., Burkart, J., Call, J., Cantlon, J., Cheke, L., Clayton, N., Delgado, M., DiVincenti, L., Fujita, K., Hiramatsu, C., Jacobs, L., Jordan, K., Laude, J., Leimgruber, K., Messer, E., Moura, A., Ostojić, L., Picard, A., Platt, M., Plotnik, J., Range, F., Reader, S., Reddy, R., Sandel, A., Santos, L., Schumann, K., Seed, A., Sewall, K., Shaw, K., Slocombe, K., Su, Y., Takimoto, A., Tan, J., Tao, J., van Schaik, C., Virányi, Z., Visalberghi, E., Wade, J., Watanabe, A., Widness, J., Zentall, T., Zhao, T. submitted. The evolution of self-control.

Maclean, E., & Hare, B. Bonobos and chimpanzees read helpful gestures better than prohibitive gestures.

Tan, J., & Hare, B. Preference or Paradigm? Bonobos do not share in “the” prosocial choice task.

Hare, B. submitted. A culture of compassion relies on a preference based approach to animal welfare.

Nelson, E., McIntyre, M., Rakhovskaya, M., Wobber, V., Herrmann, E., Hare, B. Differences in 2D:4D between captive-born and wild born/free-born bonobos, chimpanzees and rhesus macaques.

Rosati, A., & Hare, B. Risk-taking preferences in humans with biologically relevant currencies.

BOOKS IN PREPERATION

Hare, B., & Yamamoto, S. (Eds.) *Bonobos: Unique in Mind, Brain and Behaviour*. Oxford University Press.

MANUSCRIPTS IN PREPARATION (N=8)

Tan, J., Kwtuenda, S., Hare, B. in prep. evidence for empathy and xenophilia in bonobos.

Schroepfer, K., Wobber, T., Hare, B. in prep. Bonobos and chimpanzees prefer those who groom and play with them more.

Tan, J. Schroepfer, K. & Hare. in prep. Do dogs differ in their ability to trust humans?

Schroepfer, K., Kwtuenda, S., Workman, C., Morel, D., Hare, B., Andre, C. Status report of bonobos released back into the wild from Lola ya Bonobo sanctuary.

Maclean, E. & Hare, B. in prep. Comparative development in bonobos and chimpanzees on a social cognitive test battery.

Rosati, A., Wobber, V., Hare, B. The relationship between risk-taking and testosterone in human, chimpanzee and bonobo males.

Rosati, A., Prasanna, S. & Hare, B. Is punishment or communication preferred in human economic games?

Sandel, A., Maclean, Hare, B. in prep. Species differences in the use of human social cues in five species of lemurs.

Hare, B., Woods, V. in prep. Chimpanzees but not bonobos are afraid of strangers.

INVITED CONFERENCE PRESENTATIONS

1. Hare, B., Call, J. & Tomasello, M. 2000. Chimpanzees know what conspecifics can and cannot see. *COE International Symposium on Phylogeny of Cognition and Language*. Kyoto University, Japan.
2. Hare, B. & Tomasello, M. 2001. Use of social cues to find hidden food: comparing our closest relative to our best friend. *The XVIIIth Congress of the International Primatological Society*. Adelaide, Australia.
3. Hare, B. 2002. The domestication of social cognition in dogs. *Tufts University Animal Expo*. Boston, U.S.A.
4. Hare, B., Call, J., Tomasello, M. 2002. Intentional deception in chimpanzees. *COE2/SAGA5 international Symposium*. Kyoto University, Japan.
5. Hare, B. 2003. The effect of domestication on dog cognition. *International Guide Dog Federation Genetics Research Workshop*. The Seeing Eye, Morristown, NJ, U.S.A.
6. Hare, B. 2004. Dogs use humans as tools: is it the secret to their success? *American Association for the Advancement of Science*. Seattle, U.S.A.

7. Hare, B. 2004. Emotional Chimpanzees, domesticated foxes, and the evolution of human social cognition. *Human and Behavioral Evolution Society*. Berlin, Germany.
8. Hare, B. 2004. **(Keynote Address)** The dog's mind and what it can tell us about human evolution. *Advances in Canine and Feline Genomics*. Utrecht, Netherlands.
9. Hare, B. 2005. Have we identified heritable components of dog social cognition? Wenner-Gren Foundation. Gotenburg, Sweden.
10. Hare, B. 2006. Comparisons of Bonobo and Chimpanzee Cooperation. *The XXI Congress of the International Primatological Society*. Entebbe, Uganda.
11. Hare, B. 2007. Tolerance allows bonobos to outperform chimpanzees in a cooperative task. The Mind of the Chimpanzee Conference. Lincoln Park Zoo, Chicago, U.S.A.
12. Hare, B. 2007. From nonhuman to human mind: what changed and why? *The European Cognitive Science Conference II*. Delphi, Greece.
13. Hare, B. 2007. Bayleav's foxes suggest one path by which social problem solving may evolve. *Russian Academy of Sciences: Current evolutionary thinking in biology, medicine and sociology*. Novosibirsk, Russia.
14. Hare, B. 2008. From ape to human: what is the effect of affect on the hominoid Umwelt. Ipsen Foundation Series in Neuroscience. Paris, France.
15. Hare, B. 2008. **(Keynote Address)** Social Cognition in humans and apes. University College of London. Social and Affective Neuroscience Symposium. London, United Kingdom.
16. Hare, B. 2008. **(Plenary Speaker)** Emotional reactivity and the evolution of ape cognition. Kyoto University, Japan.
17. Hare, B. 2008. How much of our cooperations is human? *Human and Behavioral Evolution Society* Kyoto University, Japan.
18. Hare, B. 2008. How much of our cooperation is human? Trilience Research Group on Human Nature, California Institute of Technology, U.S.A.
19. Hare, B. 2008. **(Keynote Address)**. How the minds of our best friends were made. Assistance Dog Training Society Conference, Orlando Florida.
20. Hare, B. 2009. **(Keynote Address)**. If Darwin could have been a cognitive scientist today. Darwin Day Celebration. U. of California San Diego, U.S.A.
21. Hare, B. 2009. What is really human cooperation? Primate Mind Conference, Ettore Majorana Foundation, Erice, Italy.
22. Hare, B. 2009. **(Keynote Address)** The evolution of the cognitive dog. Association of Pet Dog Trainers, Oakland California, U.S.A.

23. Hare, B. 2009. What if Freud knew he was an ape? Department of Psychiatry, Vermont University, U.S.A.
24. Hare, B. 2010. The juvenilization of bonobo cognition. *The XXIII Congress of the International Primatological Society. Kyoto University, Japan.*
25. Hare, B. 2010. Non-invasive cognition research in nonhuman primates and other animals. *American Medical Association: Animals, Research, and Alternatives Conference.* George Washington University.
26. Hare, B. 2010. **(Keynote Address)** How does trust develop in dogs? Association of Pet Dog Trainers, Atlanta GA, U.S.A.
27. Hare, B. 2010. Let's make welfare cool and create a culture of compassion. NIH Conference celebrating 25th anniversary of the Animal Welfare Act. National Institute of Health. Bethesda, Maryland.
28. Hare, B. 2010. Thinking wrong: humans as the most intelligent species? Pop Tech Conference 2010: Brilliant accidents, necessary failures and improbably breakthroughs. Camden, Maine.
29. Hare, B. 2011. The win-win solution for humans and apes: the future of research is in zoos and sanctuaries. Institute of Medicine, National Academy of Sciences, Washington D.C.
30. Hare, B. 2011. What is it like to be an ape? 34th Meeting of the American Society of Primatologist. Austin, Texas.
31. Hare, B. 2012. The self-domestication hypothesis of bonobo evolution. *The XXV Congress of the International Primatological Society. Cancun, Mexico.*
32. Hare, B. 2012. **(Plenary Speaker)** How does a more pro-social ape evolve? *The 24th Annual Human Behavior and Evolution Society. University of New Mexico, New Mexico.*
33. Hare, B. 2013. **(Keynote Speaker).** How do we improve canine health with dognition? AKC Health Foundation Annual Meeting. Saint Louis, Missouri.
34. Hare, B. 2013. **(Keynote Speaker).** The challenge of promoting humane behavior. American Humane Association: Be Humane Summit. Orlando, Florida.
35. Hare, B. 2013. How can dognition help applied canine sciences? Association of Pet Dog Trainers Annual Meeting. Spokane, Washington.