

# VICTORIA HORNER

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## EDUCATION

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### **B.Sc. Biology**

University of St Andrews, Scotland, U.K. 1<sup>st</sup> Class Honors

Jun 1999

### **Ph.D. Psychology**

University of St Andrews, Scotland, U.K. Social learning in chimpanzees and children

Jun 2004

### **B.S. Nursing**

Emory University, Nell Hodgson Woodruff School of Nursing, Atlanta, G.A., USA

May 2011

## EMPLOYMENT

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**Post-Doctoral Research Fellow**, Yerkes Primate Center, Emory University, G.A.

Sep 2006 - present

Conduct research on the social cognition of children and chimpanzees.

**Assistant Professor** (Adjunct), Dept of Psychology, Emory University, Atlanta, G.A.

Sep 2005 - present

Teach parts of graduate and undergraduate courses in Psychology.

Supervise graduate and undergraduate research projects.

**Post-Doctoral Research Fellow**, University of St Andrews, U.K.

Oct 2003 – Sep 2006

Conducted chimpanzee behavior studies at Yerkes National Primate Research Center, in collaboration with Drs. Whiten (St Andrews) & de Waal (Emory)

**Ph.D. Student**, University of St Andrews, U.K.

Sep 2000 – Jun 2003

Thesis title: Causal Information and Social Learning in Chimpanzees and Children

Research conducted at Ngamba Island Chimpanzee Sanctuary, Uganda

## PUBLICATIONS

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### **Peer reviewed journal publications**

Horner, V., Carter, J.D., Suchak, M. & de Waal, F.B.M. (2011). Spontaneous prosocial choice by chimpanzees. *Proceedings of the National Academy of Sciences, U.S.A.*: In press.

Horner, V., Proctor, D., Whiten, A., Bonnie, K.E. & de Waal, F.B.M. (2010). Prestige affects cultural learning in chimpanzees. *PLoS ONE* 5(5): e10625. doi:10.1371/journal.pone.0010625

Horner, V. & de Waal, F. B. M. (2009). Controlled studies of chimpanzee cultural transmission. *Progress in Brain Research*, 178: 3-16.

- de Waal, F.B.M., Boesch, C., Horner, V., & Whiten, A. (2008). Comparing social skills of children and apes. *Science* 319: 569.
- Horner, V. & Whiten, A. (2007). Learning from others' mistakes? Limits on understanding a trap-tube task by young chimpanzees and children. *Journal of Comparative Psychology*. 121: 12-21.
- Whiten, A., Spiteri, A., Horner, V., Bonnie, K.E., Lambeth, S.P., Schapiro, S.J., & de Waal, F.B.M. (2007). Transmission of multiple traditions within and between chimpanzee groups. *Current Biology*. 17: 1038-1043.
- McGuigan, N., Whiten, A., Flynn, E., & Horner, V. (2007). Imitation of causally opaque versus causally transparent tool use by 3 & 5-Year-old children. *Cognitive Development* 22: 353-64.
- Hopper, L., Spiteri, A., Lambeth, S.P., Schapiro, S.J., Horner, V., & Whiten, A. (2007). Experimental studies of traditions and the underlying transmission processes in chimpanzees. *Animal Behaviour*. 73: 1021-1032.
- Horner, V., Whiten, A., Flynn, E. & de Waal, F.B.M. (2006). Faithful replication of foraging techniques along cultural transmission chains by chimpanzees and children. *Proceedings of the National Academy of Sciences, U.S.A.* 103: 13878-13883.
- Bonnie, K.E., Horner, V., Whiten, A. & de Waal, F.B.M. (2006). Spread of arbitrary customs among chimpanzees: a controlled experiment. *Proceedings of the Royal Society of London, Series B*. 274: 367-372.
- Horner, V. & Whiten, A. (2005). Causal knowledge and imitation/emulation switching in chimpanzees (*Pan troglodytes*) and children (*Homo sapiens*). *Animal Cognition*. 8: 164-181.
- Horner, V., Bonnie, K.E., & de Waal, F.B.M. (2005). Identifying the motivations of chimpanzees: Culture and collaboration. *Behavioral and Brain Sciences*. 28: 704-705.
- Whiten, A., Horner, V. & de Waal, F.B.M (2005). Conformity to cultural norms of tool use in chimpanzees. *Nature*. 437: 737-740.
- Whiten, A., Horner, V., Litchfield, C.A. & Marshall-Pescini, S. (2004) How do apes ape? *Learning and Behavior*. 32: 36-52.
- Whiten, A., Horner, V., & Marshall-Pescini, S. (2003) Cultural Panthropology. *Evolutionary Anthropology*. 12: 92-105.

### **Edited Book Chapters**

- Horner, V. (2010). The Cultural Mind of Chimpanzees: How social tolerance can shape the transmission of culture. In *The Mind of the Chimpanzee: Ecological and Experimental Perspectives*. Lonsdorf, E.V., Ross, S.R. and Matsuzawa, T. (Eds), Chicago University Press.
- Horner, V. (2010). Definition of imitation. In *Encyclopedia of applied animal behaviour and welfare*. Mills, D. (Ed). CABI Publishing, Wallingford, UK
- Perlman, J., Horner, V., Bloomsmith, M., Lambeth, S.P. & Schapiro, S.J. (2010). Positive

reinforcement training, welfare, and chimpanzee social learning. In *The Mind of the Chimpanzee: Ecological and Experimental Perspectives*. Lonsdorf, E.V., Ross, S.R. and Matsuzawa, T. (Eds), Chicago University Press

Whiten, A. Horner, V. & Marshall-Pescini, S. (2005). Selective imitation in child and chimpanzee: A window on the construal of others' actions. In *Perspectives on imitation: From cognitive neuroscience to social science*. Hurley, S. & Chater, N. (Eds), MIT Press, Cambridge, MA. Volume 1,

### Conference Proceedings

Perlman, J.E., Lambeth, S.P., Horner, V., Martin, A.L., Neu, K., McMillan, J. & Bloomsmith, M.A. (2010). Videotaped demonstrator improves efficiency of training chimpanzees to urinate on cue. American Society of Primatologists, Kentucky, U.S.A., 16<sup>th</sup> – 19<sup>th</sup> June 2010

Horner, V. (2008). Cultural transmission by chimpanzees and dolphins. International Workshop on Comparative Cognitive Science, Nagoya, Japan, 12<sup>th</sup> September 2008

Horner, V. (2008). Chimpanzee Trendsetters: Does inventor status affect the probability of cultural transmission? XXII Congress of the International Primatological Society, Edinburgh, Scotland, 3<sup>rd</sup> - 8<sup>th</sup> August 2008

Horner, V. (2007). Chimpanzee Culture: Reports from captivity and the field. The American Society of Primatologists, Winston-Salem, NC, U.S.A., 20<sup>th</sup>-23<sup>rd</sup> June 2007

Horner, V. (2007). Cultural chimpanzees? Society for Philosophy and Psychology Conference, Toronto, Canada, 14<sup>th</sup> – 17<sup>th</sup> June 2007

Horner, V., Whiten, A. & de Waal, F.B.M. (2006). Faithful multigenerational transmission of foraging techniques by chimpanzees and children. XXI Congress of the International Primatological Society, Entebbe, Uganda, 24<sup>th</sup>-30<sup>th</sup> June 2006

Horner, V. & Whiten, A. (2004). Causal information and social learning in chimpanzees and children. *Folia Primatologica* Vol. 75, supplemental 1, page 278. Congress of the International Primatological Society, Torino, Italy, 22<sup>nd</sup>-28<sup>th</sup> August 2004

## ACADEMIC ACTIVITIES

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- Taught parts of Dr. de Waal's course on Psychology at Emory University 2007 - present
- Taught parts of Dr. Bonnie's course on Comparative Cognition at Emory University
- Taught guest lectures at Georgia State University in Dr. Stoinski's class on Animal Behavior
- Co-supervised three students from Emory's 'Summer Undergraduate Research Experience'
- Chaired two undergraduate and graduate discussion seminars on Learning and Social Cognition at Emory University with Drs. de Waal and Gouzoules
- Supervised day-to-day research in Dr. de Waal's research group at Emory University and coordinate with other departments at Yerkes Primate Center
- Gave lunchtime talks to Animal Care staff at Yerkes about ongoing research projects

- Teaching and supervisory responsibilities same as above 2004 - 2006
- Additionally, taught part of Dr. Bonnie's class on Animal Cognition at Oglethorpe University
- Set-up and ran 'Culture Club' - an interdisciplinary journal club involving researchers from Emory University, Georgia Technical Institute and Zoo Atlanta
  
- Supervised research assistants and volunteers at Ngamba Island Chimpanzee Sanctuary, Uganda, during fieldwork for Ph.D. 2000 - 2003

## INVITED TALKS AND PRESENTATIONS

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- International Workshop on Comparative Cognitive Science, Japan: 12<sup>th</sup> Sep 2008
- American Society of Primatologists, Winston-Salem, NC, U.S.A.: 20<sup>th</sup> – 23<sup>rd</sup> June 2007
- Society for Philosophy and Psychology, Toronto, Canada: 14<sup>th</sup> – 17<sup>th</sup> June 2007
- The Mind of the Chimpanzee, Chicago, Illinois, U.S.A.: 22<sup>nd</sup> – 25<sup>th</sup> March 2007
- Chimpanzee Cognition workshop at 21<sup>st</sup> Congress of the International Primatological Society, Ngamba Island, Uganda: 23<sup>rd</sup> - 24<sup>th</sup> June 2006
- Public Lecture "Chimpanzee Cultures" at Zoo Atlanta, U.S.A.: 4<sup>th</sup> April 2006
- Evolution and Human Behavior Spring Seminar Series, Department of Anthropology, Emory University, U.S.A.: 1<sup>st</sup> March 2006
- Symposium on Social Learning in Chimpanzees and Children at Biannual meeting of the Society for Research in Child Development, Atlanta, U.S.A.: 7<sup>th</sup> – 11<sup>th</sup> April 2005
- Royal Society of Edinburgh, "Chimpanzee Cultures" at New Frontiers in Science exhibition, Edinburgh, U.K: June 2000

## PEER REVIEWING EXPERIENCE

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- Acta Zoologica Sinica
- Animal Behaviour
- Animal Cognition
- Child Development
- Journal of Experimental Child Psychology
- Journal of Human Evolution
- PLoS Biology

## COMMUNICATING SCIENCE

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### Magazine Pieces

- National Geographic, Scientific American, New Scientist, der Spiegel, The Scientist, National Geographic Kids, Yes: Children's Science Magazine

### Newspaper Reports

- Washington Post, New York Times, Atlanta Journal Constitution, Guardian, Scotsman, Independent, Financial Times, Daily Mirror

### Television Documentaries

- BBC Horizon (Chimps Are People Too), National Geographic (Human Ape), NOVA (Ape Genius), PBS (The Human Spark), The Today Show (NBC)

## SCHOLARSHIPS

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- Biotechnology & Biological Science Research Council (UK) research scholarship 2003 - 2006
- Biotechnology & Biological Science Research Council (UK) graduate scholarship 2000 - 2003

## PROFESSIONAL AFFILIATIONS

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- Association for Psychological Science
- Association for the Study of Animal Behaviour
- International Primatological Society
- Primate Society of Great Britain
- Scottish Primate Research Group