

Heidi Lyn, PhD
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CURRENT POSITIONS:

2008-present Department of Psychology, Agnes Scott University, Atlanta, GA
Department of Psychobiology, Yerkes Nario
Post-doctoral Research Fellow: Communication and neurobiology of nonhuman primates

EDUCATION AND DEGREES:

2001 Georgia State University, Atlanta, Georgia
Ph.D Psychology, *focus*: comparative cognition
Supervisor: Sue Savage-Rumbaugh; committee members: Duane Rumbaugh, Patricia Greenfield (UCLA), David Washburn, Roger Bakeman
Dissertation: Vocabulary Errors as Evidence of Semantic Knowledge in Bonobos

1998 Georgia State University, Atlanta, Georgia
M.A. Psychology; *focus*: comparative cognition, animal behavior
Committee members: Sue Savage-Rumbaugh, Duane Rumbaugh, Michael Tomasello
Thesis: Observational Word Learning in bonobos

1993-1995 University of Hawaii at Manoa, Honolulu, Hawaii
Field of concentration: marine mammal cognition and behavior
Supervisor: Louis Herman

1992 University of Pennsylvania. Philadelphia, Pennsylvania
B.A. in Linguistics
B.S. Engineering in Computer Science Engineering

PREVIOUS POSITIONS:

2006-2008 Sea Mammal Research Unit, School of Biology, St. Andrews University, UK
Research Fellow: EU grant on referential communication. Bottlenose dolphin communication and cognition, field research at dolfinarium Harderwijk, the Netherlands

2002-2006 Marine Mammal Research Program, New York Aquarium, New York, New York
Research Scientist, Post-doctoral Research Scientist - research included: animal cognition and precursors of language, enrichment and management of animals in zoos.

2002-2005 Animal Behavior and Conservation Program, Department of Psychology, Hunter College
Adjunct Assistant Professor

2001-2003 Department of Psychology, University of California, Los Angeles
Post-graduate Researcher - research included: bonobo and chimpanzee comparative cognition, developmental, and language research.

2001-2003 Department of Psychology, Georgia State University, Atlanta, Georgia
Post-doctoral Research Associate: research included: chimpanzee and bonobo cognition and communication research.

PUBLICATIONS:

Lyn, H. (2008) Artificial symbol systems in dolphins and apes: analogous communicative evolution or evidence for basic communicative rules? In: Smith A, Smith K, Hurford J, editors. Evolution of language: proceedings from the 2008 conference.

Lyn, H., Franks, B., and Savage-Rumbaugh, E. S. (2008) Precursors of morality in the use of the symbols "good" and "bad" in two bonobos (*Pan paniscus*) and a chimpanzee (*Pan troglodytes*). *Language and Communication*.

Greenfield, P. G., Lyn, H., and Savage-Rumbaugh, E. S. (in press) Protolanguage in ontogeny and phylogeny: combining deixis and representation. *Interaction Studies* - special issue on holophrasis.

Lyn, H. (2007) Mental representations of symbols as revealed by vocabulary errors in two bonobos (*Pan paniscus*), *Animal Cognition*. 10(4), 461-475. DOI 10.1007/s10071-007-0086-3

Lyn, H., Greenfield, P. G., and Savage-Rumbaugh, E. S. (2006) The development of pretend play in chimpanzees and bonobos: evolutionary implications, pretense, and the role of interspecies communication, *Cognitive Development* 21, 199-213.

Greenfield, P. G. and Lyn, H. (2006) Symbol combination in *Pan*: language, action, culture. In Washburn, D. (Ed.) *Primate perspectives on behavior and cognition*, APA.

Sickler, Jessica ; Fraser, John ; Weblor, Thomas ; Reiss, Diana ; Boyle, Paul ; Lyn, Heidi ; Lemcke, Katherine ; Gruber, Sarah (2006) Social narratives surrounding dolphins: Q Method study. *Society and Animals*. 14(4) 351-382. DOI 10.1163/156853006778882457

Lyn, H. and Rumbaugh, D. M. (2003) Early environmental influences on apes and the development of cognitive and language skills. In J. M. Miller, R. M. Lerner, L. B. Schiamberg, & P. M. Anderson (Eds.), *Human ecology: an encyclopedia of children, families, communities, and environments*. Santa Barbara, CA: ABC-Clío.

Lyn, H. and Savage-Rumbaugh, E. S. (2000) Observational word learning in two bonobos (*Pan paniscus*): Ostensive and non-ostensive contexts. *Language & Communication*. Vol 20(3) 255-273.

(in submission)

Lyn, H. and Janik, V. M. (in review) Chromatic versus achromatic video perception in bottlenose dolphins (*Tursiops truncatus*)

Lyn, H., Shaw, P., and Janik, V. M. (in review) The limitations of video monitors in animal behaviour research: light intensity and spectra measurements

Lyn, H., Greenfield, P. G., and Savage-Rumbaugh (in revision) Semiotic combinations in *Pan*. a comparison of communication in a chimpanzee and two bonobos.

Lyn, H., Reiss, D., and Savage-Rumbaugh, E. S. (in revision) Early stages of keyboard use in apes and dolphins: analogies in cognition.

Lyn, H., Klein, L., Franks, B., and Reiss, D. (in review) The effect of enrichment objects on the behavior of pacific walrus (*Odobenus rosmarus divergens*).

Franks, B., Lyn, H., Klein, L., and Reiss, D. (in review) Behavioral patterns of the pacific walrus in a zoological setting: stereotypes or microterritories?

INVITED PRESENTATIONS:

Lyn, H. (August, 2007) Artificial symbol systems and very distant relatives: what apes and dolphins can tell us about language evolution. Evolutionary Approaches to Culture, Cognition and Communication. ESRC Research Seminar Series. St. Andrews, UK.

Greenfield, P.G. and Lyn, H. (January, 2001) Semiotic combinations in *Pan*: A cross-species comparison of communication in a chimpanzee and a bonobo. Communication workshop; International Primatological Society, Adelaide, Australia.

Lyn, H. (June, 2000) Vocabulary errors as evidence of semantic knowledge in bonobos (comparisons to human development) University of California, Los Angeles, developmental department workshop.

GRANTS:

November, 2007. Conference Grant: Royal Society, UK. Grant to attend the Society of Marine Mammology Conference on the Biology of Marine Mammals, Cape Town, South Africa.

PRESS COVERAGE:

Erard, M. (2007) Read my slips: speech errors show how language is processed. *Science*. 317 pp. 1674-1676.

Kenneally, C. (2007) *The first word: the search for the origins of language*. Viking Penguin.

Erard, M. (2007) *Um. . . : slips, stumbles, and verbal blunders, and what they mean*. Pantheon.

RELATED AND TEACHING EXPERIENCE:

2002-2005 Animal Behavior and Conservation Program, Department of Psychology, Hunter College
Adjunct Assistant Professor - teaching graduate level Experimental Methodology and undergraduate Developmental Psychology.

2005 Huntingdon Life Sciences
Consultant: Nonparametric Statistics

1999 Georgia State University, Atlanta, Georgia
Teaching Assistant: - assisted Professor E. Sue Savage-Rumbaugh with her biology course "Primate Behavior". Lectured, helped lead class discussions, helped design class research project, graded exams and determined final grades. Lectured in Professor Duane Rumbaugh's course, "Introduction to Psychology". Designed and taught section of course and exam on "intelligence".

1992-1995 Kewalo Basin Marine Mammal Laboratory, Sea Life Park, Honolulu, Hawaii
Designed and taught several community courses on marine ecology and biology.

NATIONALITY: US

LANGUAGES: Spanish

MEMBERSHIPS:

Society of Marine Mammalogy
International Primatological Society
Comparative Cognition Society