

Heidi Lyn, PhD
Department of Psychology
University of Southern Mississippi, Gulf Coast
heidi.lyn@usm.edu, 228-214-3234

EDUCATION AND DEGREES:

- 2001 Georgia State University, Atlanta, Georgia
Ph.D Psychology, *focus*: comparative animal communication and cognition
Supervisor: Sue Savage-Rumbaugh; committee members: Duane Rumbaugh, Patricia Greenfield (UCLA), David Washburn, Roger Bakeman
- 1998 Georgia State University, Atlanta, Georgia
M.A. Psychology; *focus*: comparative cognition, animal behavior
Committee members: Sue Savage-Rumbaugh, Duane Rumbaugh, Michael Tomasello
- 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

CURRENT POSITION:

- 2016-present Department of Psychology, University of Southern Mississippi, Long Beach, MS
Associate Professor

PREVIOUS POSITIONS:

- 2010-2016 Department of Psychology, University of Southern Mississippi, Long Beach, MS
Assistant Professor
- 2008-2010 Department of Psychology, Agnes Scott University, Decatur, GA
Division of Psychobiology, Yerkes National Primate Research Center, Atlanta, GA
Post-Doctoral Research Fellow, Neurobiological and behavioral correlates in bonobos and chimpanzees.
- 2010-2010 Department of Psychology, Spelman College
Part Time Instructor – Theories of Learning
- 2008-2010 Department of Psychology, Georgia State University
Visiting Lecturer –Introduction to Statistics, Interpersonal Psychology, Intro to Psych
- 2006-2008 School of Biology, St. Andrews University, UK

- Research Fellow: field research at dolfinarium Harderwijk, the Netherlands, EU grant on referential communication - Bottlenose dolphin communication.
- 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.
- 2001-2003 Department of Psychology, University of California, Los Angeles
Post-graduate Researcher, half-time - research included: bonobo and chimpanzee comparative cognition, developmental, and language research.
- 2001-2002 Department of Psychology, Georgia State University, Atlanta, Georgia
Post-doctoral Research Associate, half-time: research included: chimpanzee and bonobo cognition and communication research.
- 2002-2005 Animal Behavior and Conservation Program, Department of Psychology, Hunter College
Adjunct Assistant Professor – taught Experimental Methodology and Lifespan Developmental Psychology.
- 1992-1995 Kewalo Basin Marine Mammal Laboratory, Sea Life Park, Honolulu, Hawaii
Designed and taught several community courses on marine ecology and biology.

RESEARCH AND RELATED APPOINTMENTS:

- 2011-present Institute for Marine Mammal Studies
Research Consultant – Designing and conducting a behavioral observation program for dolphins, sea turtles, and sea lions. Supervising and monitoring research projects on wild dolphin and sea turtle abundance and behavior.
- 2011-2012 Great Ape Trust of Iowa
Interim Director – Assisted in the transition from Research Institution to Sanctuary due to budgetary issues. Had final determination of research direction, budget, and staffing.
- 2008-2010 Georgia Aquarium
Consultant – Designing and running a behavioral observation program to monitor belugas' response to possible stress in their environment, including construction noise. Also monitoring effectiveness of enrichment devices.

HONORS AND AWARDS:

2015. USM College of Arts and Sciences Junior Faculty Award. \$500.
2014. USM Innovations Basic Research Award. Nominated.
2014. USM Faculty Senate Junior Faculty Award. Nominated.
2013. USM Innovations Basic Research Award. Nominated.

2013. USM Gulf Coast Junior Faculty Award. Nominated.

2013. University of Southern Mississippi Undergraduate Eagle Scholars Program for Undergraduate Research (Eagle SPUR) Award. Hannah Bahe, Heidi Lyn (mentor). Choice and Control of Enrichment for Captive Atlantic Bottlenose Dolphins (*Tursiops truncatus*). \$1000.

2013. University of Southern Mississippi Undergraduate Eagle Scholars Program for Undergraduate Research (Eagle SPUR) Award. Anna Roller, Heidi Lyn (mentor). Corpus Callosum Volume of Vervet Monkeys (*Chlorocebus aethiops sabaesus*) in Relation to Autism Spectrum Disorder. \$1000.

GRANTS AND CONTRACTS

2016. Gulf Coast ADVANCE Fellowship. Do apes depend on ostensive cues to comprehend pointing gestures? \$5000.

2016. University of Southern Mississippi Internal Faculty Research Proposal Development Grant. Zhou, W. and Lyn, H. \$2000

2014. University of Southern Mississippi Gulf Coast Faculty Development Award. Lyn, H. \$800

2014. University of Southern Mississippi Internal Faculty Research Proposal Development Grant. \$2000

2012. University of Southern Mississippi Gulf Coast Faculty Development Award. Lyn, H. \$1000

2012. University of Southern Mississippi Internal Faculty Research Proposal Development Grant. \$2000

2011a. Institute for Marine Mammal Studies. Enrichment in two sensory-comprised Bottlenose dolphins (*Tursiops truncatus*). \$2610.

2012. Institute for Marine Mammal Studies. Acoustic and Behavioral Integration of a young Bottlenose dolphin. (*Tursiops truncatus*). \$2039.

2008. Leakey Foundation Small Grant. Lyn, H. and Greenfield, P. M. Human Origin of Language and Communication: A Cross-Species Approach. \$20,000

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. \$4800

PUBLICATIONS:

Journal Articles:

McBride-Kebert, S., Taylor, J. S., Lyn, H., Moore, F. R., Sacco, D. F., Kar, B., and Kuzcaj, S. A. (in press) How Can Spatial Bias Affect Bottlenose Dolphin (*Tursiops truncatus*) Habitat Use

Results: Comparing Standardized Photographic-identification Surveys to Opportunistic Surveys. Aquatic Mammals.

- Broadway, M., Samuelson, M., Christopher, J. Jett, S., and Lyn, H. (2017). Does size really matter? Investigating cognitive differences in spatial memory ability based on size. *Behavioural Processes*.
- Lyn, H.** (2017). The Question of Capacity: Why Enculturated and Trained Animals have much to Tell Us about the Evolution of Language. *Psychonomic Bulletin and Review*. 24(1) p. 85-90 doi:10.3758/s13423-016-1129-z
- Samuelson, M., Lauderdale, L., Pulis, K., Solangi, M., Hoffland, T., and **Lyn, H.** (2016) Olfactory enrichment in California sea lions (*Zalophus californianus*): An effective tool for captive welfare? *Journal of Applied Animal Welfare Science*.
- Gillespie-Lynch, K., Greenfield, P. M., **Lyn, H.**, & Savage-Rumbaugh, S. (2014). Gestural and symbolic development among apes and humans: support for a multimodal theory of language evolution. *Frontiers in Psychology*. 5:1228. doi: 10.3389/fpsyg.2014.01228
- Lyn, H.**, Russell, J. L., Leavens, D., Bard, K. A., Boysen, S. T., Schaeffer, J. A., & Hopkins, W. D. (2014). Apes communicate about absent and displaced objects: methodology matters. *Animal Cognition*. 17, 85-94 DOI 10.1007/s10071-013-0640-0
- Gillespie-Lynch, K., Feng, Y., Greenfield, P. M., Savage-Rumbaugh, S., & **Lyn, H.** (2013). A cross-species study of gesture and its role in symbolic development: Implications for the gestural theory of language evolution. *Frontiers in Psychology*. 4, 160. DOI: 10.3389/fpsyg.2013.00160
- Lyn, H.**, Coleman, A., Broadway, M., Klaus, J., Finerty, S., Shannon, D., & Solangi, M. (2012). Displacement and Site Fidelity of Rehabilitated Immature Kemp's Ridley Sea Turtles (*Lepidochelys kempii*). *Marine Turtle Newsletter*, 135, 10-13.
- Gillespie-Lynch, K., Greenfield, P. M., **Lyn, H.**, & Savage-Rumbaugh, S. (2011). The role of dialogue in the ontogeny and phylogeny of early word combinations : A cross-species comparison of bonobo, chimpanzee, and human learners. *First Language*, 31(4), 442-460. doi: 10.1177/0142723711406882
- Russell, J. L., **Lyn, H.**, Schaeffer, J. A., & Hopkins, W. D. (2011). The Role of Socio-Communicative Rearing Environments on the Development of Social and Physical Cognition in Apes. *Developmental Science*, 14(6), 1459-1470. DOI: 10.1111/j.1467-7687.2011.01090.x
- Lyn, H.**, Greenfield, P. M., & Savage-Rumbaugh, E. S. (2011). Semiotic combinations in Pan: A cross-species comparison of communication in a chimpanzee and a bonobo. *First Language*, 31(3), 300-325. doi: 10.1177/0142723710391872
- Lyn, H.**, Pierre, P., Bennett, A. J., Fears, S., Woods, R., & Hopkins, W. D. (2011). Planum Temporale Grey Matter Asymmetries in Chimpanzees (*Pan troglodytes*), Vervet (*Chlorocebus aethiops sabaues*), Rhesus (*Macaca mulatta*) and Bonnet (*Macaca radiata*)

monkeys. *Neuropsychologia*, 49, 2004-2012. DOI: [10.1016/j.neuropsychologia.2011.03.030](https://doi.org/10.1016/j.neuropsychologia.2011.03.030)

- Lyn, H.**, Greenfield, P. M., Savage-Rumbaugh, S., Gillespie-Lynch, K., & Hopkins, W. D. (2011). Nonhuman primates do declare! A comparison of declarative symbol and gesture use in two children, two bonobos, and a chimpanzee. *Language and Communication*, 31, 63-74. DOI: 10.1016/j.langcom.2010.11.001
- Lyn, H.** (2010). Environment, methodology, and the object choice task in apes: Evidence for declarative comprehension and implications for the evolution of language. *Evolutionary Psychology*. 8(4), 333-349. doi: 10.1556/JEP.8.2010.4.3
- Lyn, H.**, Russell, J. L., & Hopkins, W. D. (2010). The impact of environment on the comprehension of declarative communication in apes. *Psychological Science* 21(3), 360-365.
- Franks, B., **Lyn, H.**, Klein, L. & Reiss, D. L. (2009) The influence of feeding enrichment, and seasonal context on the behavior of Pacific Walrus (*Odobenus rosmarus divergens*). *Zoo Biology*, 28,1-8.
- Hopkins, W. D., **Lyn, H.**, and Cantalupo, C. (2009) A Preliminary Study of Volumetric and Lateralized Differences in the Brains of Chimpanzees (*Pan troglodytes*) and Bonobos (*Pan paniscus*). *American Journal of Primatology*. 71, pp. 1-10.
- Lyn, H.** & Rumbaugh, D. M. (2009) Saliences, Propositions, and Amalgams: Emergent learning in non-humans. *Behavioral & Brain Sciences* 32(2) 213-214.
- 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* 28(3) 213-224 DOI 10.1016/j.langcom.2008.01.006.
- Greenfield, P. M., **Lyn, H.**, & Savage-Rumbaugh, E. S. (2008). Protolanguage in ontogeny and phylogeny: combining deixis and representation. *Interaction Studies*, 9(1), 34-50.
- 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 representational play in chimpanzees and bonobos: evolutionary implications, pretense, and the role of interspecies communication, *Cognitive Development*, 21, 199-213. doi: 10.1016/j.cogdev.2006.03.005
- Sickler, J., Fraser, J., Webler, T., Reiss, D., Boyle, P., **Lyn, H.**, Lemcke, K., Gruber, S. (2006) Social narratives surrounding dolphins: Q Method study. *Society and Animals*. 14(4) 351-382. DOI 10.1163/156853006778882457
- Lyn, H.** and Savage-Rumbaugh, E. S. (2000) Observational word learning in two bonobos (*Pan paniscus*): Ostensive and non-ostensive contexts. *Language & Communication*. 20(3) 255-273.

Book Chapters:

Lyn, H. (in press) On Floating Cats, Good Boys, and Shapeshifting Zookeepers: Animals in Night Vale. In J. A. Weinstock (Ed.) *Between Weather and the Void: Critical Approaches to Welcome to Night Vale*. Palgrave Macmillan.

Gillespie-Lynch, K., Savage-Rumbaugh, S., & **Lyn, H.** (in press) Language Learning in Non-human Primates, In P. Brooks & V. Kempe (Eds.), *Encyclopedia of Language Development*. Sage.

Lyn, H. (2012). Apes and the evolution of language: taking stock of 40 years of research. In J. Vonk & T. K. Shackelford (Eds.), *Oxford Handbook of Comparative Evolutionary Psychology*. Oxford, UK: Oxford University Press.

Lyn, H. and Savage-Rumbaugh, S. (2012) The Use of Emotion Symbols in Language-Using Apes. In S. Watanabe and S. Kuczaj (Eds.), *Emotions of Animals and Humans: Comparative Perspectives*. Springer.

Lyn, H. (2008). Artificial symbol systems in dolphins and apes: analogous communicative evolution or evidence for basic communicative rules? In A. D. M. Smith, K. Smith & R. Ferrer i Cancho (Eds.), *The Evolution of Language: Proceedings of the 7th International Conference (EVOLANG7)*. Singapore: World Scientific Press.

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.

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-CLIO.

Edited Books:

Cartmill, E., Roberts, S. **Lyn, H.**, Cornish, H. (Eds) (2014) *The Evolution of Language: Proceedings of the 10th International Conference (EVOLANG10)* Vienna, Austria 14-17 April 2014.

Book Reviews:

Lyn, H., & Christopher, J. (2017). Hindrances of the human mind, or, sometimes we're not very smart. *PsycCRITIQUES.*, 62(40). DOI: 10.1037/a0041035

Lyn, H. (2014). Minding the Gap: could we build a bridge? [Review of the book *The Gap: The Science of What Separates Us From Other Animals*, by T. Suddendorf]. *PsycCRITIQUES*, 59(24). doi: 10.1037/a0036805

Lyn, H. (2013). Gorillas, Explorers, and the Politics of Victorian Science [Review of the book *Between Man and Beast: An Unlikely Explorer, the Evolution Debates, and the African Adventure That Took the Victorian World by Storm*, by M. Reel]. *PsycCRITIQUES*, 58(42). doi: 10.1037/a0034279

Published abstracts:

Lyn, H., Jett, S., Broadway, M. (2018). Greeting and Meeting: Vocal interactions and use of signature

whistles in bottlenose dolphins (*Tursiops Truncatus*) during an introduction. In Cuskley, C., Little H., et al. (Eds) *The Evolution of Language: Proceedings of the 12th International Conference (EVOLANG12)* Torun, Poland 16-19 April 2018.

Lyn, H., Jett, S., Broadway, M., Samuelson, M. (2016). Nonhuman animals' use of ostensive cues in an Object Choice Task. In Roberts, S., Little, H. (Eds) *The Evolution of Language: Proceedings of the 11th International Conference (EVOLANG11)* New Orleans, USA 21-24 March 2016.

Lyn, H. (2014). Comparative Psychology and the evolution of language: Methodology Matters. In Cartmill, E., Roberts, S. Lyn, H., Cornish, H. (Eds) *The Evolution of Language: Proceedings of the 10th International Conference (EVOLANG10)* Vienna, Austria 14-17 April 2014.

Schaeffer, J.A., Russell, J.L., Bogart, S.L., **Lyn, H.**, and Hopkins, W.D. (2012) Differences in the spatial cognitive abilities of captive chimpanzees (*Pan troglodytes*) and bonobos (*Pan paniscus*). *American Journal of Primatology*. 73 (Supplement 1), p. 94.

Lyn, H., Greenfield, P., Savage-Rumbaugh, E. S., Gillespe-Lynch, K., Hopkins, W. D. (2012) Nonhuman primates do declare! Declaratives as evidence for mental time-travel in apes. In Scott-Phillips, T.C., Tamariz, M., Cartmill, E. A., Hurford, J.R. (Eds) *The Evolution of Language: Proceedings of the 9th International Conference (EVOLANG9)* Kyoto, Japan 13-16 March 2012.

Lyn, H., Russell, J.L., Schaeffer, J.A., Pierre, P., Bennett, A. J., Fears, S., Woods, R., Hopkins, W. D. (2012) Building a language-competent species: contributions of brain and environment to cognition and communication in apes and monkeys. In Scott-Phillips, T.C., Tamariz, M., Cartmill, E. A., Hurford, J.R. (Eds) *The Evolution of Language: Proceedings of the 9th International Conference (EVOLANG9)* Kyoto, Japan 13-16 March 2012.

Lyn, H., Greenfield, P., Savage-Rumbaugh, E. S., Russell, J.L., Gillespe-Lynch, K., Hopkins, W. D. (2010) Declaratives in apes: impact of environment on purely informative communications. In Smith, A.D.M., Schouwstra, M. and De Boer, B. (Eds) *The Evolution of Language: Proceedings of the 8th International Conference (EVOLANG8)* Utrecht, Netherlands, 14-17 April 2010.

Russell, J.L., Schaeffer, J.A., **Lyn, H.**, Herndon, J.G., and Hopkins, W.D. (2010) The Effects of Environment on Physical and Social Cognitive Abilities in Pan. *American Journal of Primatology*. 72 (Supplement 1), p. 63.

Lyn, H., Russell, J.L., Hopkins, W.D. (2009) Nurture, not nature, determines comprehension of declarative communication in chimpanzees (*Pan troglodytes*) and bonobos (*Pan paniscus*). *American Journal of Primatology*. 71 (Supplement 1), p. 37.

Lyn, H., Savage-Rumbaugh, E. S., And Rumbaugh, D.M. (1999) Observational word learning in two bonobos (*Pan paniscus*). *American Journal of Primatology*. 45 (2), p. 193.

INVITED PRESENTATIONS:

Lyn, H. (2015) The Ubiquity of Gestural Comprehension. Symposium on Ontogeny and Language Evolution. Protolang conference. Rome, Italy.

Lyn, H. (2015) Environment and gesture in primates. ECOM workshop, University of Connecticut.

Lyn, H (2014) Marine and Terrestrial Mammals: Analogies in Cognition. Department of Coastal Sciences seminar series, Gulf Coast Research Laboratory. Ocean Springs, MS.

Lyn, H. (2011) Cognitive parallels in divergent species: what analogous abilities may tell us about the evolution of the human mind. Comparative Psychology and Evolutionary Psychology – Bridging Divisions Fosters Crosstalk and Collaborations, Symposium at the Conference of the American Psychological Association, Washington, D.C.

Lyn, H. (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.

RECENT CONFERENCE PRESENTATIONS

Smith, C. E., Seely, E., Ellifrit, D., Giles, D., Phillips, N. M., and Lyn, H. (October, 2017) Evaluating vessel exposure and social network dynamics of Bigg's killer whales (*Orcinus orca*) within a transboundary region. Poster presented at the Society for Marine Mammalogy meeting, Halifax, Nova Scotia, Canada.

Christopher, J., Baker, T., Lyn, H. (June, 2017). Grooming as An Agonistic Behavior in Garnett's Small-Eared Bushbaby (*Otolemur garnettii*). Paper presented at the Animal Behavior Society meeting, Toronto, Canada.

Lyn, H., Jett, S. E., and Veliz-Aguilar, M. (April, 2017). Quantity Judgements in Dogs (*Canis lupus familiaris*). Paper presented at the Comparative Cognition Conference, Melbourne, FL.

Broadway, M. M., & Lyn, H. (April, 2017). Signature whistle production during a bottlenose dolphin group integration: Preliminary results. Poster presented at the Comparative Cognition Conference, Melbourne, FL.

- Lyn, H., Jett, S. E., Broadway, M., Samuelson, M. M., Christopher, J., & Chenkin, B. (April, 2016). Overt Intentionality in an Object Choice Task in Bonobos and Dogs. Paper presented at the Comparative Cognition Conference, Melbourne, FL.
- Samuelson, M. M., Solangi, M., Hoffland, T., & Lyn, H. (April, 2016). Olfactory enrichment for California sea lions: A product of evolution or cognition? Paper presented at the Comparative Cognition Conference, Melbourne, FL.
- Lyn, H., Jett, S., Broadway, M., Samuelson, M. (March, 2016). Nonhuman animals' use of ostensive cues in an Object Choice Task. Paper presented at the Evolution of Language Conference, New Orleans, USA 21-24 March 2016.
- Broadway, M. M., & Lyn, H. (March, 2016). Signature Whistles in an Introductory Context. Paper presented at the Evolution of Language Conference, New Orleans, USA 21-24 March 2016.
- Lyn, H. (2014). Comparative Psychology and the evolution of language: Methodology Matters. Paper presented at the Evolution of Language Conference, Vienna, Austria, March, 2014.
- Bahe, H., Broadway, M., Hoffland, T., Lyn, H. (2014) Choice and Control of Enrichment for Rescued and Rehabilitated Atlantic Bottlenose Dolphins (*Tursiops truncatus*). Presented at the Comparative Cognition Conference, Melbourne Beach, FL. March, 2014.
- Broadway, M., Bahe, H., Stevens-Serafin, B., Shelley, J., Hoffland, T., & Lyn, H. Signature Whistle Production During Bottlenose Dolphin Group Integration Phase I: Identification of Signature Whistles. Presented at the Comparative Cognition Conference, Melbourne Beach, FL. March, 2014.
- Stern, A., Jett, S., Lyn, H. (2014) An Investigation of Visual Causality in Vultures. Presented at the Comparative Cognition Conference, Melbourne Beach, FL. March, 2014.
- Roller, A., Paschall, B., and Lyn, H. (2014) Corpus Callosum Volume of Vervet Monkeys (*Chlorocebus aethiops sabaues*) and Chimpanzees (*Pan troglodytes*) in Relation to Autism Spectrum Disorder. IOSSBR Biloxi Conference (Best Paper Award).
- Lyn, H., Broadway, M., Klaus, J., Shannon, D., Hoffland, T., Coleman, A., Solangi, M. (2013). Cognitive mechanisms in navigation in sea turtles: What do Kemp's Ridleys do in a radial maze? Presented at the Comparative Cognition Conference, Melbourne Beach, FL. March, 2013.
- Broadway, M., Lyn, H., Coleman, A., Klaus, J., Pitchford, J. (2013) Site Fidelity of Juvenile Kemp's Ridley Sea Turtles in the Northern Gulf of Mexico: A Cognitive Mystery. Presented at the Comparative Cognition Conference, Melbourne Beach, FL. March, 2013.
- Jett, Lyn, and Mong (2013) A Survey of Spatial Memory and Transposition in Primates, Presented at the Comparative Cognition Conference, Melbourne Beach, FL. March, 2013.

- Lyn, H., Greenfield, P., Savage-Rumbaugh, E. S., Gillespe-Lynch, K., Hopkins, W. D. (2012) Nonhuman Primates do Declare! Declaratives as evidence for mental time-travel in apes. Poster presented at the Evolution of Language Conference, Kyoto, Japan, March, 2012
- Lyn, H., Russell, J.L., Schaeffer, J.A., Pierre, P., Bennett, A. J., Fears, S., Woods, R., Hopkins, W. D. (2012) Building a language-competent species: contributions of brain and environment to cognition and communication in apes and monkeys. Paper presented at the Evolution of Language Conference, Kyoto, Japan, March, 2012
- Broadway, M., Lyn, H., Klaus, J., Finerty, S., Shannon, D., and Solangi, M. (2012). Site fidelity and effect of displacement on Kemp's ridley turtles. Presented at the Southeast Regional Sea Turtle Meeting, Jekyll Island, Georgia, February, 2012.
- Schaeffer, J.A., Russell, J.L., Bogart, S.L., Lyn, H, and Hopkins, W.D. (2012) Differences in the spatial cognitive abilities of captive chimpanzees (*Pan troglodytes*) and bonobos (*Pan paniscus*). Presented at the American Society of Primatologists meeting, 2012.
- Lyn, H., Hoffland, T., Shannon, D., and Solangi, M. (2011) Enrichment for aging Bottlenose dolphins (*Tursiops truncatus*) in human care. International Marine Animal Trainers Association conference. Miami, FL. November, 2011.
- Lyn, H., Hoffland, T., Shannon, D., and Solangi, M. (2011) Enrichment for aging Bottlenose dolphins (*Tursiops truncatus*) in human care. Biology of Marine Mammals conference. Tampa, FL. November, 2011.
- Lyn, H., Russell, J. L., Leavens, D. A., Bard, K. A., Boysen, S. T., Schaeffer, J., Hopkins, W. D. (2011) Apes Communicate about Absent and Displaced Objects: Methodology Matters, Comparative Cognition Conference, Melbourne Beach, FL. March, 2011.
- Lyn, H., Russell, J.L., Hopkins, W.D. (2009) Nurture, not nature, determines comprehension of declarative communication in chimpanzees (*Pan troglodytes*) and bonobos (*Pan paniscus*). Paper Presented at the American Society of Primatologists meeting, San Diego.
- Lyn, H., Savage-Rumbaugh, E. S., and Rumbaugh, D.M. (1999) Observational word learning in two bonobos (*Pan paniscus*). Paper Presented at the American Society of Primatologists meeting, Texas.

GRANT REVIEWER (ad-hoc):

Strasbourg Institute for Advanced Study

EDITORIAL BOARDS:

Frontiers in Psychology: Comparative – review editor

JOURNAL REVIEWER (ad-hoc):

Child Development
Cognition
Current Biology
Animal Cognition
Evolution and Human Behavior
Interaction Studies
Language Sciences
Marine Mammal Science
Animal Behavior
PeerJ
American Journal of Primatology
Trends in Cognitive Science
International Journal of Comparative Psychology

CLASSES TAUGHT:

PSY 110: Intro (General) Psychology
PSY 270: Child Development
PSY 360: Intro to Statistics
PSY 361: Research Methods
PSY 422: Psychology of Learning
PSY 424: Animal Behavior
PSY 426: Behavioral Neuroscience
PSY 444: Marine Mammal Behavior and Cognition
PSY 453: Psychology of Humor
PSY 469: Psychology of Music
PSY 475: Senior Seminar
PSY 492: Special problems - Animal Training

SERVICE:

University:

Academic Leadership Committee (2016): charged with evaluating faculty proposals and recommending action for the Academic reorganization of the University of Southern Mississippi.
Faculty Senate (2013-present): Research Committee and Awards Committee 2014, Academic committee, 2015; Gulf Coast Committee Chair 2016-2017; Finance committee 2017
Principal presenter for Teaching Forum "Teaching as Scholarship: Involving the Classroom in Research" 2014
Dual Campus Committee member 2013

College/Campus:

Gulf Coast Faculty Council (Secretary 2013-2014, president-elect 2014-2015)
Career Fair committee 2011-12

Department:

Average 30 undergraduate advisees per year
Average of 15 undergraduate research assistants per year

12 undergraduate thesis students
4 Dissertations chaired
6 Master's Thesis chaired
served on 3 additional Thesis committees (1 outside of Psychology) and 2 additional dissertation committees
2010 – present Graduate Research Symposium Review Committee (chair 2014-present)
2015 Psychology Awards Day Committee
Undergraduate Stats Redesign Committee
Senior Seminar design committee
Plagiarism Committee

Professional Organizations:

2016 (Spring) Chair of the local organizing committee for the Evolution of Language conference, New Orleans, LA

2014-present Organizing Committee for Evolution of Language Conferences.

2014. Program committee for First International Congress on Animal Human Computer Interaction, Funchal, Madeira, Portugal.

2011. Student Workshop at Society for Marine Mammology meeting

Community Service:

2014 - present. Partnership with the Humane Society of Southern Mississippi to promote adoption as well as Spay/Neuter program for homeless pets in South Mississippi.

2017. Pumpkin Patch fundraiser for research and the Association of Office professionals.

2015. Running a pumpkin patch fundraiser for Alzheimer's and research with a former student.

2012. Started an Ed/Psych Team for the Walk to prevent Alzheimers with a student

SPEAKING AND PUBLIC EVENTS:

2016. Animals think therefore...How do we know what they know? Science Café. University of South Alabama. Mobile, AL.

2014. Participated in an AMA (Ask me Another) on the Science series on reddit.com. The question-and-answer made the front page of reddit for a full day, with over 3,200 upvotes.

2014. How smart are animals, and how do we know? Science Café. Gulf Coast Science Series. Long Beach, MS.

2013. Career Fair at Forest Heights Boys and Girls club.

PRESS COVERAGE:

September 3, 2014. USM Research Collaborates with Humane Society of South Mississippi. Featured on Hattiesburg local news and highlighted on the USM website.

http://youtu.be/KS2nqoQjODY?list=UUxyT53Ly3_g3fOr6lXoqR0g

January, 2011 Today Show. Segment on Dolphin Imitation while blindfolded.

January 15, 2011 Miami Herald. Dolphins are amazing mimics.

Erard, M. (2007) Read my slips. *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.

MEMBERSHIPS:

Society of Marine Mammalogy

International Primatological Society

American Society of Primatologists

Comparative Cognition Society

International Marine Animal Trainers Association

NATIONALITY: US

LANGUAGES: English, Spanish

Education degrees vary in length and emphasis, and many include both coursework and practical components that meet state licensure and certification requirements. Students who want to work with young children can focus their studies on elementary and middle school education, while learners looking to teach adolescent and adult students can pursue comparable options. What Kinds of Education Degrees Are There? Education Degrees Build Skills and Abilities In. Patience: these programs will prepare you to work with students of varying abilities and aptitudes and give them individualized assistance no matter how frustrated you might become. As a teacher you often have to rise above unruly behavior, frustrating administrations, uninspired peers, and much more, all of which will test your frequently exercised patience. You need a Bachelor's degree, and possibly a Master's in special education as well. An academic degree is a qualification awarded to students upon successful completion of a course of study in higher education, usually at a college or university. These institutions commonly offer degrees at various levels, usually including bachelor's, master's and doctorates, often alongside other academic certificates and professional degrees. The most common undergraduate degree is the bachelor's degree, although in some countries there are lower level higher education qualifications that are also