CURRICULUM VITAE

STEVEN M. PHELPS **SPRING 2012**
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512 475 6304

POSITIONS AND AFFILIATIONS:

Associate Professor, Section of Integrative Biology, University of Texas, Austin	2010-present
Co-Director, Center for Brain, Behavior and Evolution	2011-present
Institute for Cell and Molecular Biology	2011-present
Institute for Neuroscience	2011-present
Department of Psychology (affiliate)	2010-present
Associate Professor, Department of Biology, University of Florida, Gainesville	2009-2010
UF Center for Autism and Related Disabilities	2008-2010
UF Genetics Institute	2008-2010
Assistant Professor, Department of Biology, University of Florida, Gainesville	2002-2009

EDUCATION AND PROFESSIONAL PREPARATION:

NextGen Sequencing Course, National Center for Evolutionary Synthesis — August 2011
Summer Institute in Statistical Genetics, University of Washington — June 2011

Postdoctoral fellow, NSF Center for Behavioral Neuroscience, Emory University — 2000-2002
- Topic: Neurobiological and genetic mechanisms of monogamy
- Sponsors: Drs. Larry J. Young and Thomas R. Insel

Postdoctoral fellow, Smithsonian Tropical Research Institute — 1999-2000
- Topic: Cognitive models of mate choice in túngara frogs
- Sponsor: Dr. A. Stanley Rand

Ph.D. in zoology/integrative biology, University of Texas, Austin — 1994-1999
- Dissertation: Historical influences on receiver biases -- neural network simulations and behavioral studies of call recognition in the túngara frog
- Supervisors: Drs. Michael J. Ryan and Walter Wilczynski

M.S. in biology, University of Illinois, Urbana-Champaign — 1993-1994
- Thesis: *In vivo* and *in vitro* studies of a putative neurotrophic factor, Dopamine-Releasing Protein
- Supervisor: Dr. Victor D. Ramirez

B.S. in physiology, University of Illinois, Urbana-Champaign — 1988-1992

GRANTS:

P.I. National Science Foundation — 2011-2012
"International Meeting of the Society for Social Neuroscience"

Co-P.I. National Center for Evolutionary Synthesis — 2010-2012
"Integrative models of vertebrate sociality: evolution, mechanism and emergent properties."

P.I. National Science Foundation — 2009-2014
"CAREER: Integrative neurobiology of species recognition"

P.I. National Institutes of Health — 2009-2011
"An animal model of parental care: Manipulating social environment with V1aR-RNAi"

P.I., National Geographic — 2007
"Historical biogeography of the singing mice"

P.I., National Science Foundation 2006-2008
"Integrative biology of vocal communication"
P.I., National Science Foundation 2005
"Workshop on rodents as models for integrative study of social behavior"
P.I., National Science Foundation 2003-2006
"Behavioral and neuroendocrine variation in mammalian mating systems."

HONORS AND AWARDS:

Reeder Fellow, University of Texas at Austin	2010-2011
National Science Foundation CAREER Award	2009-2014
College of Liberal Arts and Sciences Teacher of the Year Award	2006-2007
University of Florida Academy of Distinguished Teacher-Scholars, nominee	2006-2007
NSF Center for Behavioral Neuroscience Postdoc. Fellow	2000-2002
Smithsonian Postdoctoral Fellow	1999
University of Texas Continuing Fellow nominee, declined	1999
University of Texas Tuition Fellowship	1998, 1999
Dorothea Bennet Travel Fellowship, U.T. Dept. Zoology	1996, 1998
Smithsonian Predoctoral Fellow	1998
Dorothea Bennet Research Fellowship, U.T. Dept. Zoology	1995, 1998
National Research Service Award, National Institutes of Health	1995-1998
Endowment for Excellence Fellowship, U.T. Dept. Zoology	1997
Bruton Award, U.T. Graduate School	1996
Sigma Xi Grants-in-Aid	1996
Gaige Award, American Society of Ichthyologists and Herpetologists	1996
National Science Foundation Undergrad. Research Fellowship	1992

PUBLICATIONS:

Ophir, A.G., A. Gessel, D. Zheng and **S.M. Phelps**. *In press.* Oxytocin receptor density is associated with male mating tactics and social monogamy. *Hormones and Behavior.*

Fernandez-Vargas, M., Z. Tang-Martinez and **S.M. Phelps**. 2011 Singing, allogrooming, and allomarking behaviour during inter- and intra-sexual encounters in the Neotropical short-tailed singing mouse (*Scotinomys teguina*). *Behavior* 148:945-965.

Pasch, B. A.S. George, P. Campbell and **S.M. Phelps**. 2011 Androgen-dependent vocal performances influences female preference in Neotropical singing mice. *Animal Behavior* 82:177-183.

B. Pasch, A. George, H. Hamlin, L.G. Guillette and **S.M. Phelps.** 2011. Androgens mediate song effort and aggressive behavior in singing mice. *Hormones and Behavior* 59: 90-97.

S.M. Phelps. 2010. From endophenotypes to evolution: social attachment, sexual fidelity and the *avpr1a* locus. *Current Opinion in Neurobiology* 20:795–802.

O. Crino, I. Larkin and **S.M. Phelps**. 2010. Divergent stress coping styles and singing behavior in the short-tailed singing mouse (*Scotinomys teguina*). *Hormones and Behavior* 58:334-340.

P. Campbell, B. Pasch, J.L. Pino, M. Phillips and **S.M. Phelps**. 2010. Geographic variation in the songs of Neotropical singing mice: testing the relative importance of drift and local adaptation. *Evolution* 64:1955-1972.

L.M. Turner, A.R. Young, H. Rompler, T. Schoneberg, **S.M. Phelps** and H.E. Hoekstra. 2010. Monogamy evolves through multiple mechanisms: Evidence from V1aR in deer mice. *Molecular Biology and Evolution* 27:1269-1278.

A.G. Ophir, D.J. Zheng, S. Eans and **S.M. Phelps**. 2009. Social investigation in a memory task relates to natural variation in septal expression of oxytocin receptor and vasopressin receptor 1a. *Behavioral Neuroscience* 123:979-991.

S.M. Phelps, P. Campbell, D.-J. Zheng and A.G. Ophir. 2009. Beating the boojum: Comparative approaches to the neurobiology of social behavior. *Neuropharmacology* 58:17-28.

S.M. Phelps and A.G. Ophir. 2009. Monogamous brains and alternative tactics: Neuronal V1aR, space use and sexual infidelity among male prairie voles. In *Cognitive Ecology II*, (Reuven Dukas and John Ratcliffe Eds.) University of Chicago Press, pp156-176.

P. Campbell, A.G. Ophir and **S.M. Phelps**. 2009. Central vasopressin and oxytocin receptor distributions in two species of singing mice. *Journal of Comparative Neurology* 516:321-333.

D. Blondel, J. Pino and **S.M. Phelps**. 2009. Space use and social structure of the long-tailed singing mouse (*Scotinomys xerampelinus*). *Journal of Mammalogy* 90:715-723.

P. Campbell, R. Reep, M. Stoll, A. Ophir and **S.M. Phelps**. 2009. Conservation and diversity of *Foxp2* expression in muroid rodents: Functional implications. *Journal of Comparative Neurology* 512:84-100.

A.G. Ophir, P. Campbell, K. Hannen and **S.M. Phelps**. 2008. Field tests of *cis*-regulatory variation at the prairie vole *avpr1a* locus: association with V1aR abundance but not social or sexual fidelity. *Hormones and Behavior* 54:694-702.

A.G. Ophir, J.O. Wolff and **S.M. Phelps**. 2008. Variation in neural V1aR predicts space use and sexual fidelity among male prairie voles in semi-natural settings. *Proceedings of the National Academy of Sciences* 105:1249-1254.

A.G. Ophir, A.B. Sorin, **S.M. Phelps** and J.O. Wolff. 2008. Social but not genetic monogamy is associated with higher breeding success in prairie voles. *Animal Behavior* 75:1143-1154.

A.G. Ophir, O. Crino, Q. Wilkerson, J.O. Wolff and **S.M. Phelps**. 2008. Female-directed aggression predicts paternal behavior, but female prairie voles prefer affiliative males to paternal males. *Brain, Behavior and Evolution* 71:32-40.

J.O. Wolff, A.G. Ophir and **S.M. Phelps**. 2008. Social monogamy in prairie voles is not related to synchronous breeding. *Canadian Journal of Zoology* 86:339-343.

M. Fernandez, Z. Tang-Martinez and **S.M. Phelps**. 2008. Olfactory responses of male and female Neotropical singing mice (*Scotinomys teguina*) to odors of the mid-ventral

sebaceous gland: Discrimination of conspecifics, gender and female reproductive condition. *Journal of Chemical Ecology* 34:429-437.

A.G. Ophir, A.B. Sorin, **S.M. Phelps** and J.O. Wolff. 2007. Comparative morphology, genetics and social behavior of prairie voles from Tennessee and Illinois in the laboratory and field. *Journal of Mammalogy* 88:989-999.

S.M. Phelps, A.S. Rand and M.J. Ryan. 2007. The mixed-species chorus as public information: male túngara frogs eavesdrop on a heterospecific. *Behavioral Ecology* 18:108-114.

S.M. Phelps. 2007. Sensory ecology and the evolution of perceptual allocation. *Philosophical Transactions of the Royal Society* 362:355-367.

S.M. Phelps. 2006. The integrative biology of social behavior: Rodents as extended model systems. *National Science Foundation Workshop Report.*

S.M. Phelps, A.S. Rand and M.J. Ryan. 2006. The cognitive architecture of mate choice and species recognition. *American Naturalist* 167:28-42.

S.M. Phelps. 2004. Appraising the brain's utility. *Trends in Ecology and Evolution* 19:303-304.

S.M. Phelps and L.J. Young. 2003. Extraordinary diversity in vasopressin (V1a) receptor expression in wild prairie voles: Patterns of variation and covariation. *Journal of Comparative Neurology* 466:564-576.

M.J. Ryan, W. Rand, P.C. Hurd, **S.M. Phelps** and A.S. Rand. 2003. Generalization in response to mate recognition signals. *American Naturalist* 161:380-294.

S.M. Phelps. 2002. Like minds: Evolutionary convergence in nervous systems. *Trends in Ecology and Evolution* 17:157-158.

S.M. Phelps, M.J. Ryan and A.S. Rand. 2001. Vestigial preferences in neural networks and túngara frogs. *Proceedings of the National Academy of Sciences* 98:13161-13166.

E.J. Yang, **S.M. Phelps**, D. Crews and W. Wilczynski. 2001. The effects of social experience on aggressive behavior in the green anole lizard (*Anolis carolinensis*). *Ethology* 107:777-793.

S.M. Phelps. 2001. History's lessons: a neural network approach to receiver biases and the evolution of communication. In *Anuran Communication*, (M.J. Ryan Ed.) Smithsonian Press, pp. 167-180.

M.J. Ryan, **S.M. Phelps** and A. S. Rand. 2001. How evolutionary history shapes recognition mechanisms. *Trends in Cognitive Science* 5:143-148.

S.M. Phelps and M.J. Ryan. 2000. History influences signal recognition: Neural network models of túngara frogs. *Proceedings of the Royal Society* B 267:1633-1639.

S.M. Phelps, J. Lydon, B.W. O'Malley and D. Crews. 1998. Regulation of male sexual behavior by progesterone receptor, sexual experience, and androgens. *Hormones and Behavior* 34:294-302.

S.M. Phelps and M.J. Ryan. 1998. Neural networks predict response biases of female túngara frogs. *Proceedings of the Royal Society* B 265:279-285.

S.M. Phelps and V.D. Ramirez. 1994. Unilateral deficits induced in rats by MPP+ are markedly reduced by an N-terminal peptide fragment of dopamine-releasing protein. *Brain Research* 666:117-119.

L.M. Page and **S.M. Phelps**. 1994. Speciation and phylogenetic resolution. *Trends in Ecology and Evolution* 9:298.

Manuscripts submitted or in preparation

Pasch, B. and **S.M. Phelps**. *In review.* Interspecific dominance via vocal interactions mediates altitudinal zonation in Neotropical singing mice. *American Naturalist.*

Kingsbury, M.A. E.D. Gleason, A.G. Ophir, **S.M. Phelps**, L.J. Young and C.A. Marler. *In review.* The size of limbic-associated cortical areas correlates with mating strategies in voles and mice. *Proceedings of the Royal Society of London, series B.*

S.M. Phelps, A.G. Ophir and J.O. Wolff. The generalist index: an information theoretic measure of sexual, social and ecological interactions. In preparation for *American Naturalist.*

S.M. Phelps and M. Schweder. Phylogenetic footprinting of the Muriod vasopressin (V1a) receptor reveals novel putative regulatory regions. In preparation for *Molecular Biology and Evolution*.

Published abstracts

G. Wallace, O. Crino and **S.M. Phelps**. 2011. Stress reactivity, song and the distributions of CRF receptors in Alston's singing mice. Society for Neuroscience. Washington DC, November 2011.

M. Okhovat, N. Lysak, P. Campbell, A. Ophir and **S.M. Phelps**. Complex associations of *cis*-regulatory polymorphisms with neuronal V1aR: implications for social behavior and genome-wide association studies. Society for Neuroscience. Washington DC, November 2011.

A. Berrio, J.L. Pino and **S.M. Phelps**. 2011. Evolution of *cis*-regulatory sequences of *avpr1a* and its pseudogene. Society for Neuroscience. Washington DC, November 2011.

B. Pasch, P. Campbell and **S.M. Phelps**, 2011. Integrative biology of acoustic communication in neotropical singing mice (*Scotinomys*). *Third Symposium of Acoustic Communication in Animals*, Ithaca, NY, August 2011.

J.L. Pino, D.L. Reed and **S.M. Phelps**. 2011. Lineage divergence of singing mice (genus *Scotinomys*) in southern central American higlands. *American Society for Mammalogy*, Portland, OR, June 2011.

B. Pasch and **S.M. Phelps**. 2011. Neural mechanisms of species recognition in Neotropical singing mice. Society for Social Neuroscience, Utrecht, Netherlands, March 2011.

W. Weymouth, E. Richmond and **S.M. Phelps**. 2010. Evolutionary remains: variation in the heritability of *avpr1a* expression among prairie voles. *Society for Neuroscience*, San Diego, California, November 2010.

S.M. Phelps and N.S. Lysak. 2010. Single nucleotide polymorphisms and microsatellites in the *avpr1a* promoter: novel associations with neuronal V1aR among wild prairie voles. *Society for Neuroscience*, San Diego, California, November 2010.

A. Berrio, N.S. Lysak, D.V. Blondel, J.L. Pino and **S.M. Phelps**. 2010. Evolution of the *cis*-regulatory region of *avpr1a* and its pseudogene. *Society for Neuroscience*, San Diego, California, November 2010.

A.G. Ophir, A. Gessel A, D. Zheng and **S.M. Phelps**. 2010. A socio-spatial memory neural circuit predicts male monogamy in the field. *Society for Neuroscience*, San Diego, California, November 2010.

B. Pasch, A. George, H.J. Hamlin, L.G. Guillette and **S.M. Phelps**. Androgens activate the advertisement songs of singing mice (Scotinomys). *Society for Integrative and Comparative Biology*. Seattle, WA, January 2010.

P. Campbell, A.G. Ophir and **S.M. Phelps**. 2009. Central vasopressin and oxytocin receptor distributions in two species of singing mice. *Society for Behavioral Neuroendocrinology*, East Lansing, Michigan, June 2009.

B. Pasch, A. George and S.M. Phelps. 2009. Does testosterone activate singing in male mice? *Society for Behavioral Neuroendocrinology*, East Lansing, Michigan, June 2009.

D. Blondel and S.M. Phelps. 2009. Does cortisol influence the social monogamy behavior syndrome in prairie voles? *Society for Behavioral Neuroendocrinology*, East Lansing, Michigan, June 2009.

A.G. Ophir, J.O. Wolff, and **S.M. Phelps**. 2009. Variation in neuronal V1aR predicts sexual fidelity and space use. *National Meeting of Vole Researchers*, Atlanta, Georgia, April 2009.

P. Campbell, B. Pasch and **S.M. Phelps**. 2008. Geographic variation in songs of singing mice (genus, Scotinomys): local adaptation or neutral divergence? *Society for the Study of Evolution.*

A.G. Ophir, D.J. Zheng, S. Eans and **S.M. Phelps**. 2008. Social investigation in a memory task relates to natural variation in septal expression of oxytocin receptor and vasopressin receptor 1a. *JB Johnston Club (JBJC).*

A.G. Ophir, J.O. Wolff and **S.M. Phelps**. 2007. Monogamous brains? Context-dependent selection on behavioral and brain phenotypes*. International Ethological Conference (IEC).*

O.L. Crino, I. Larkin and **S.M. Phelps**. 2007. Behavioral and hormonal differences in wariness between two populations of short-tailed singing mice. *Animal Behavior Society*.

P. Campbell, B.S. Pasch and **S. M. Phelps**. 2007. Ontogeny of vocal behavior and call structure in singing mice, *Scotinomys teguina* and *S. xerampelinus*. *American Society of Mammalogists*.

A.G. Ophir, D. Zheng, J. O. Wolff and **S.M. Phelps**. 2006. Neuropeptide receptor expression related to patterns of space use, but not mating status, in field populations of prairie voles. *Society for Neuroscience.*

P. Campbell, G.J. Zhang and **S.M. Phelps**. 2006. RNAi strategies for exotic species. *Society for Neuroscience.*

A.G. Ophir, J. O. Wolff and **S.M. Phelps**. 2006. V1aR expression and alternative mating tactics in male prairie voles: a field study. *Society for Behavioral Neuroendocrinology*.

O.I. Crino, A.G. Ophir, J.O. Wolff and **S.M. Phelps**. 2006. Female prairie voles prefer affiliative males but not good fathers. *Animal Behavior Society*.

A.G. Ophir, **S.M. Phelps** and J. O. Wolff. 2006. Selection for social but not genetic monogamy in the prairie vole. *Society for Integrative and Comparative Biology*.

A.G. Ophir, **S.M. Phelps** and J. O. Wolff. 2005. Defining mating system using information theory: space use and parentage in the prairie vole. *Animal Behavior Society*.

D. Blondel and **S.M. Phelps**. 2004. Assessing the social systems of the singing mice (genus Scotinomys). *Animal Behavior Society*.

S.M. Phelps. 2004. A psychophysics of mate choice: insights from signal detection theory. *Animal Behavior Society*.

S.M. Phelps. 2004. Computational models of mate choice: insights into the evolution of brain and behavior. *Fourth International Congress on Ecological Informatics*.

S.M. Phelps, K.M. Sharer, and L.J. Young. 2002. Individual differences in vasopressin V1a receptor expression, promoter structure and social behavior. *Society for Neuroscience Abstracts.*

S.M. Phelps, T.R. Insel and L.J. Young. 2001. Individual differences and the origins of behavioral diversity. *J.B. Johnston Club* (comparative neuroscience).

S.M. Phelps, M.J. Ryan and A.S. Rand. 2001. A psychophysical approach to mate choice in female túngara frogs, Physalaemus pustulosus. *Animal Behavior Society.*

S.M. Phelps, K.M. Sharer, T.R. Insel and L.J. Young. 2001. Individual differences in neuropeptide receptor expression and promoter structure in wild prairie voles. *Sixth International Congress of Neuroethology.*

S.M. Phelps, S. Wooley, J. Lydon, B.W. O'Malley and D. Crews. 1998. Sexual behavior deficits in male PRKO mice: effects of sexual experience and testicular androgens. *Society for Neuroscience Abstracts.*

S.M. Phelps and M.J. Ryan. 1998. Evolutionary history shapes receiver biases: Artificial neural network models of call recognition in the túngara frog, *Physalaemus pustulosus*. *Fifth International Congress of Neuroethology.*

S.M. Phelps, J. Lydon, B.W. O'Malley and D. Crews. 1997. Progesterone receptor enhances reinstatement of male sexual behavior by testosterone: evidence from mice heterozygous for a progesterone receptor knockout. *Society for Neuroscience Abstracts.*

S.M. Phelps, M.J. Ryan and W. Wilczynski. 1996. The evolution of biases in mate choice:

modeling call recognition in the túngara frog with neural networks. *Society for Neuroscience Abstracts.*

S.M. Phelps 1996. The evolution of biases in mate choice. *American Society of Ichthyologists and Herpetologists.*

V.D. Ramirez, **S.M. Phelps**, and S. Kim. 1994. Treatment with a synthetic peptide from the N-terminus of DARP partially restores DA levels in MPP+-lesioned rats and drastically reduces amphetamine-induced rotation, *Society for Neuroscience Abstracts.*

INVITED PRESENTATIONS:
Symposia and national/international meetings
The evo-devo of neuroendocrine systems: a historical perspective. *Society for Behavioral Neuroendocinology.* **Queretaro Mexico**, June 2011.

Getting caught in peculiar positions: variation in the mechanisms of monogamy.
Society for Social Neuroscience, **Utrecht, Netherlands**, March 2011.

Getting caught in peculiar positions: variation in the mechanisms of monogamy.
Society for Social Neuroscience, **Shanghai, China**, January 2011.

Getting caught in peculiar positions: Variation in the mechanisms of monogamy. *19th Congress on Neuropharmacology*, Chicago, Illinois, October 2009.

Evolutionary perspective on individual differences: Forebrain V1aR and sexual fidelity in male prairie voles. *Society for Behavioral Endocrinology*, East Lansing, Michigan, June 2009.

Variation in neuronal V1aR predicts sexual fidelity and space use. *National Meeting of Vole Researchers*, Atlanta, Georgia, February 2009.

Variation in the mechanisms of monogamy: evolutionary perspectives on individual differences. Symposium on "Evolution and development: How brains change through evolutionary time," 24th Annual Winter Conference on Current Issues in Developmental Psychobiology, January 2009.

Neurobiology of social behavior. National Institutes of Health Symposium on Animal Models of Social Behavior, November 2008.

Mechanisms of mate choice and the evolution of brain size. Evolutionary Ecology of Learning, Memory and Information Use, Animal Behavior Society, July 2007.

Perceptual allocation and the power of choice. Winter Animal Behavior Conference, January 2007.

Mechanisms of mate choice and the evolution of brain size. Distinguished Speakers in Behavioral and Brain Sciences Colloqium, Cornell University, March 2007.

Neuronal gene expression and behavioral decision-making. Distinguished Speakers in Behavioral and Brain Sciences Colloqium, Cornell University.

Context-dependent selection on brain and behavior. Symposium on Behavioral Evolution, Society for the Study of Evolution, July 2006.

Intraspecific and interspecific variation in brain and behavior. Winter Animal Behavior Conference, January 2006.

Computational models of mate choice: insights into the evolution of brain and behavior. ***Keynote address.*** Fourth International Congress on Ecological Informatics. **Busan, Korea**, October 2004.

A psychophysics of mate choice: insights from signal detection theory. Animal Behavior Society, **Oaxaca, Mexico**, July 2004.

Neuropeptide receptors and monogamy in voles. Gordon Conference on Genes and Behavior, February 2004.

Historical influences on species recognition: Neural network models of túngara frogs. Symposium on advances in anuran communication, in honor of Dr. A. Stanley Rand. *American Society of Ichthyologists and Herpetologists*, July 1998.

Invited seminars

Getting caught in peculiar positions: variation in the mechanisms of monogamy. Department of Biology, McGill University, December 2011.

Getting caught in peculiar positions: variation in the mechanisms of monogamy. Department of Biology, Reed University, November 2011.

Getting caught in peculiar positions: variation in the mechanisms of monogamy. Department of Biology, Texas A&M University, October 2011.

Getting caught in peculiar positions: variation in the mechanisms of monogamy. Department of Biology, New York University Medical School, October 2011.

Getting caught in peculiar positions: variation in the mechanisms of monogamy. Department of Biology, Michigan State University, September 2011.

Evolutionary perspectives on individual differences. Institute for Cell and Molecular Biology, University of Texas at Austin, February 2011.

Getting caught in peculiar positions: variation in the mechanisms of monogamy. *Behavioral Neuroscience Seminar*, Department of Psychology, University of Texas, January 2011.

Do long alleles make better lovers? The *avpr1a* locus and monogamy. *Physiology and Behavior Seminar,* Section of Integrative Biology, University of Texas at Austin. December 2010.

Getting caught in peculiar positions: Variation in the mechanisms of monogamy. University of California at Los Angeles, April 2010.

Getting caught in peculiar positions: Variation in the mechanisms of monogamy. University of Montana, December 2009.

Getting caught in peculiar positions: Variation in the mechanisms of monogamy. University of Miami Ohio, April 2009.

Getting caught in peculiar positions: Variation in the mechanisms of monogamy. Agnes Scott College, February 2009.

Getting caught in peculiar positions: Variation in the mechanisms of monogamy. University of Texas, Section of Integrative Biology, December 2008.

Perceptual allocation and the evolution of brain size. University of Texas, Section of Integrative Biology, November 2008.

On not getting caught in peculiar positions: Conservation and diversity in the mechanisms of monogamy. University of Florida, Department of Psychology, November 2007. University of Washington, Department of Biology, February 2008.

Prospects for an evolutionary neurobiology: from computational models to monogamy molecules. North Carolina State University, Department of Biology, November 2004; University of Florida Medical School, November 2004; University of Texas at Austin, April 2005.

A cognitive framework for mate choice and species recognition. Indiana University, Department of Biology, April 2004; Boston University, March 2004; Univ. North Carolina, November 2004.

Individual differences and the origins of behavioral diversity: Vasopressin and monogamy. Indiana University, Department of Biology, April 2004; Boston University, March 2004.

Convergence in the evolution of nervous systems. International Conference on Molecular Mechanisms in Higher Brain Function. February 2004 (declined due to conflict).

Individual differences and the evolution of social behavior: vasopressin and monogamy in voles. University of Florida, Department of Psychology, December 2003.

Making aesthetic judgments: cognitive approaches to mate choice in túngara frogs. University of Memphis, Department of Biology, September 2001.

Making reproductive decisions: from computational models to monogamy molecules. University of Florida-Gainesville, Department of Biology, February 2001.

Decision mechanisms in mate choice. Emory University, Dept. Psychology, January 2001.

Decision mechanisms in mate choice. Smithsonian Tropical Research Institute, December 1999.

Evolutionary history and receiver biases. Stanford University, February 1999.

The persistence of evolutionary memory: Receiver history in neural networks and the túngara frog. Smithsonian Tropical Research Institute, June 1998.

The evolution of a communication system: Neural networks and call recognition in the túngara frog. University of California, Berkeley, November 1997.

TEACHING, MENTORING AND SERVICE ACTIVITIES:

Reviewer for the following institutions, books and journals

National Science Foundation	*Ethology*
National Institutes of Health	*Evolution*
National Geographic	*Genes and Behavior*
Graduate Women in Science	*Journal of Neurobiology*
Animal Behavior (Alcock, 7th ed)	*Journal of Theoretical Biology*
Animal Behaviour	*PNAS*
American Naturalist	*Proc. Royal Society of Science*
Behavioral and Brain Sciences	*Trends in Ecology and Evolution*
Behavioral Ecology	*Trends in Neuroscience*

Teaching appointments

University of Texas at Austin

Primary instructor:	Evolution of gene regulation[G]	(spring 2013)
	Human biology[U]	(fall 2012)
	Physiology and behavior seminar[G]	spring 2012
	Introductory biology[U]	spring 2011-2012
Guest lecturer:	Ecology, evolution and behavior core course[G]	spring 2012
	Evolutionary neurobiology[G]	fall 2011
	Neuroscience[G]	fall 2011

University of Florida at Gainesville

Primary instructor:	Introductory biology: Integrative principles[U]	fall 2002-2009
	Comparative and evolutionary neurobiology[U/G]	spring 2008, 2010
	Mechanisms of behavior[U/G]	spring 2005 - 2009
	Evolution of brain size[G]	spring 2006
	Comparative and evolutionary neurobiology[G]	spring 2007
	Communication and signaling: from cells to systems[G]	fall 2003 – fall 2005
	Evolution of gene regulation[G]	spring 2005
	Historical readings in animal behavior[G]	spring 2004
Guest lecturer:	Comparative neurobiology (Neuroscience)[G]	fall 2002 – spring 08
	Reproductive biology (Veterinary Medicine)[G]	
	Animal physiology (Veterinary Medicine)[G]	
	Graduate seminar in behavioral neuroscience (Psychology)[G]	
	Ethology (Zoology)[G]	

University of Texas at Austin

Teaching assistant:	Neurobiology and Behavior[U]	fall 1998
	Cellular and Molecular Biology[U]	fall 1994, spring 1995
Guest lecturer:	Biopsychology[U]	fall 1997 - spring 1999
Grader:	Comparative Physiology[U]	fall 1995, spring 1996
	Animal Physiology[U]	fall 1996, spring 1997
	Nerve and Muscle Physiology[U]	fall 1997

University of Illinois at Urbana-Champaign

Teaching assistant:	Organismal Biology[U]	fall 1993, sum. 1994
	Plant Biology[U]	spring 1993, 1994

Summary of recent anonymous student evaluations

Course title	*Overall rating* (5=excellent, 1=poor)	
Mechanisms of behavior	4.6	spring 2009
Introductory biology: Integrative principles	4.5, 4.5	fall 2008, 2010
Evolution of brain size	5.0	spring 2006
Evolution of gene regulation	4.9	spring 2005

Mentorship activities

University of Texas at Austin		
	McNair Scholars	2010-2011
University of Florida at Gainesville:		
	University Minority Mentor Program	fall 2004 - spring 2008
	McNair Scholars	fall 2006 – 2009

Graduate committees

Committees chaired

G. Wallace	Ph.D. student	UT Ecology, Evol & Behav	2011-present
M. Okhovat	Ph.D. student	UT Ecology, Evol & Behav	2010-present
A. George	M.S. student	UT Psychology	2010-present
A. Berrio	Ph.D. student	UF Biology/UT EEB	2009-present
J. Pino	Ph.D. candidate	UF Biology (co-chaired)	2007-present
D. Blondel	M.S., Ph.D. candidate	UF Biology	2002-present
B. Pasch	Ph. D.	UF Biology	2006-2011
O. Crino	M.S.	UF Zoology	2005-2008

Committees served

A. Thompson	Ph.D. student	UT Ecology, Evol & Behav	2011-present
M. Guerro	Ph.D. candidate	UT Ecology, Evol & Behav	2011-present
M. Smith	Ph. D. candidate	UF Biology	2006-present
L. Munchrath	Ph.D.	UT Cell and Mol Bio	2009-2011
J. Jankowski	Ph.D.	UF Biology	2006-2011
E. Emke	Ph.D.	UF Anthropology	2005-2010
J. Anderson	M.S.	UF Anthropology	2007-2009
A. Seifert	Ph.D.	UF Zoology/Genetics	2005-2007
K. McCoy	Ph.D.	UF Zoology	2004-2007
G. Zhang	Ph.D.	UF Zoology/Genetics	2004-2007
H. Klug	Ph.D.	UF Zoology	2003-2007
S. Hedrick	M.S.	UF Wildlife, Ecology & Cons.	2004-2006
K. Jones	M.S.	UF Zoology	2003-2006
T. Okuyama	Ph.D.	UF Zoology	2002-2006
M. Milnes	Ph.D.	UF Zoology	2002-2006

Postdoctoral trainees

Lauren O'Connell	*current*	2011-present
Sarah Jane Alger	instructor at University of Wisconsin, Stevens Point	2011
Polly Campbell	now a postdoc in genomics at University of Arizona	2005-2009
Alex Ophir	Asst. Prof at Oklahoma State University	2004-2009

Select honors by lab trainees

Postdoctoral trainees

Bauer Fellowship, Harvard University – Dr. L. O'Connell 2012-2017

Young Investigator Award, Soc. Behavioral Neuroendo. – Dr.O'Connell	2011
Early Career Award, Society for Social Neuroscience – Dr.O'Connell	2011
Individual National Research Service Award, NIH – Dr. P. Campbell	2007-2009
Pathway to Independence Award (K99), NIH – Dr. A. Ophir	*declined*

Graduate students

NSF Graduate Research Fellowship – G. Wallace	2011-2014
Doctoral Dissertation Improvement Grant, NSF – B. Pasch	2010
Shadle Award, American Society of Mammalogists – B. Pasch	2010
Organization for Tropical Studies Grants-in-Aid – B. Pasch	2008
Society for Integrative and Comparative Biology Grants-in-Aid – B. Pasch	2008
University of Florida Alumni Fellowship – D. Blondel, O. Crino, B. Pasch	2002-2010
American Mammal Society Grants-in-Aid – B. Pasch	2007
Sigma Xi Grants-in-Aid – B. Pasch, J. Pino	2007, 2010
NSF Graduate Research Fellowship, honorable mention – O. Crino	2007

Undergraduate students

McNair Scholarship – S. Eans, A. George	2006, 2009

Outreach and related activities

Public presentations

Contributed to Science Partners in Inquiry-based Collaborative Education, a middle school outreach program. Developed learning module on cloud forests and singing mice.

Spoke at local retirement community on neurobiology of pair-bonding (10/06) and maternal care (1/10).

Students presentations on singing mice to elementary schools in rural Costa Rica (7/07).

Popular and scientific press

Vole work reviewed in

*ABC 20/*20 (7/08)
Nature (2/08)
BBC Wildlife (UK, 2/08)
The Observer (2/08)
Science (3/04, 1/05)
Science News (8/05)
The Economist (UK, 2/04)
Nature via Nurture (Ridley, 2003)

Singing mouse project discussed on

Ciencia al cubo (Spain, 8/11)
NPR (6/11)
EarthSky (6/11)
ScienceNow (6/11)
Wired (UK, 6/11)
Ciencia en la radio (Argentina, 8/10)
Scientific American (7/09)
La Prensa (Panama, 3/04).

Túngara frog work highlighted in

Natural History (2/07).
Trends in Ecology and Evolution (1/01).