

Karin S. Pfennig
CURRICULUM VITAE
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EDUCATION & TRAINING

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|---------|---|
| 2002-04 | Seeding Postdoctoral Innovators in Research & Education (SPIRE) Fellow in Bioinformatics; University of North Carolina, Chapel Hill / Duke University |
| 2000-02 | National Science Foundation (NSF) Postdoctoral Fellow in Biological Informatics; University of Texas at Austin |
| 1999-00 | NSF-North Atlantic Treaty Organization (NATO) Postdoctoral Fellow; University of Bristol, United Kingdom |
| 1999 | Ph.D. in Biology; University of Illinois, Urbana-Champaign |
| 1990 | B.A. in Ecology, Behavior & Evolution; University of California, San Diego |

PROFESSIONAL POSITIONS

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| 2017- present | Professor, Department of Biology, UNC |
| 2004-present | Joint faculty member, Environment, Ecology and Energy Program, UNC |
| 2013-2018 | Associate Chair for Academic Affairs, Department of Biology, University of North Carolina, Chapel Hill (UNC) |
| 2010-2017 | Associate Professor, Department of Biology, UNC |
| 2004-2010 | Assistant Professor, Department of Biology, UNC |

RESEARCH SYNOPSIS

My research seeks to evaluate the role of behavior in the origins, maintenance, and distribution of biodiversity. I focus on the evolution of mate choice behavior and the ecological and evolutionary consequences that arise from variation in this behavior. My work has been funded by the US National Science Foundation and National Institutes of Health and has implications for understanding societal problems ranging from how the environment impacts health and behavior to invasive species spread.

HONORS AND DISTINCTIONS

- 2020 Grand Prize winner, NSF Idea Machine 2026 competition for proposed idea “Public Carbon Capture and Sequestration”
(One of 4 ideas (of 800) chosen as grand prize winners of NSF’s Idea Machine 2026, “A competition to inform the U.S. agenda for fundamental science, engineering, and STEM education research by proposing new “Big Ideas” for future investment by the National Science Foundation (NSF).”)
- 2019 Elected Fellow, American Association for the Advancement of Science (AAAS)
(Elected fellows are AAAS members whose “efforts on behalf of the advancement of science or its applications are scientifically or socially distinguished.”)
- 2016-17 Academic Leadership Program Fellow, Institute for the Arts and Humanities, UNC
(“Eight fellows are selected annually to engage in a series of activities to help them develop leadership skills, clarify their career commitments, build a leadership network within the campus and extend their contacts to other leaders beyond the University.”)
- 2008 National Institutes of Health (NIH) Director’s New Innovator Award
(Created in 2007 to “support a small number of early stage investigators of exceptional creativity who propose bold and highly innovative new research approaches that have the potential to produce a major impact on broad, important problems in biomedical and behavioral research.”)
- 2002 SPIRE Fellowship (funded by National Human Genome Research Institute)
- 2000 NSF Postdoctoral Fellowship in Biological Informatics
- 1999 NSF-NATO Postdoctoral Fellowship in Science and Engineering
- 1993-96 List of Teachers Ranked as Excellent by Their Students, Univ. of Illinois
(I was on the list for each of the five semesters that I engaged in teaching.)

PUBLICATIONS

*denotes that co-author was: *undergraduate; ♦graduate student; *postdoctoral scholar*

Book (peer reviewed)

Pfennig, D. W. and K. S. Pfennig. 2012. *Evolution’s Wedge: Competition and the Origins of Diversity*. University of California Press, Berkeley, CA.

Book Chapter (peer reviewed)

Pfennig, K. S. and M. J. Ryan. 2010. Evolutionary diversification of mating behaviour: using artificial neural networks to study reproductive character displacement and speciation. Pages 187-214 in *Modeling Perception with Artificial Neural Networks*, C. Tosh and G. Ruxton, eds. Cambridge University Press, Cambridge, U.K.

Invited Perspectives and Comments

Chen, C.♦¹ and K. S. Pfennig¹. *In press*. Response to Comment on “Females engaging in adaptive hybridization prefer high-quality heterospecifics as mates.” *Science*. ¹*Corresponding authors*.

Pfennig, D. W. and K. S. Pfennig. 2020. Quick guide: character displacement. *Current Biology* 30: R1023–R1024.

Pfennig, K. S. 2019. How to survive in a human-dominated world. *Science* 364: 433-434. DOI: 10.1126/science.aax3713

Journal Articles (all are peer reviewed)

Burmeister, S. S., V. G. Rodriguez Moncalvo* and K. S. Pfennig. *In press*. Differential encoding of signals and preferences by noradrenaline in the anuran brain. *Journal of Experimental Biology*.

Chen, C.♦¹ and K. S. Pfennig¹. 2020. Females engaging in adaptive hybridization prefer high-quality heterospecifics as mates. *Science*. 367 (6484): 1377-1379 doi: 10.1126/science.aaz5109. ¹*Corresponding authors*.

(Subject of special perspective article “Shallow pond prompt fitness-favoring species interbreeding” by M. Zuk. 2020. Science 367:1304-1305. doi: 10.1126/science.abb2398.)

Gillespie, R. G., G. M. Bennett, L. De Meester, R. C. Fleischer, L. Harmon, A. Hendry, M. L. Knope, J. Mallet, C. Martin, C. E. Parent, A. H. Patton, K. S. Pfennig, D. Rubinoff, D. Schluter, O. Seehausen, K. Shaw, E. Stacy, M. Stervander, J. T. Stroud, C. Wagner, G. Wogan. 2020. Comparing adaptive radiations across space, time, and taxa. *Journal of Heredity* 111 (1): 1–20, <https://doi.org/10.1093/jhered/esz064>. ¹*Order of authorship after 1st author is alphabetical*

(Invited contribution to the President’s Symposium special issue on “Origins of Adaptive Radiation.”)

Calabrese, G. M.♦ and K. S. Pfennig¹. 2020. Reinforcement and the proliferation of species. *Journal of Heredity* 111 (1): 138–146, <https://doi.org/10.1093/jhered/esz073>. ¹*Corresponding author*.

(Invited contribution to the President’s Symposium special issue on “Origins of Adaptive Radiation.”)

Seidl, F.♦¹, N. A. Levis♦, C. D. Jones, A. Monroy-Eklund♦, I. M. Ehrenreich², and K. S. Pfennig^{1,2}. 2019. Variation in hybrid gene expression: implications for the evolution of genetic incompatibilities in interbreeding species. *Molecular Ecology* 28: 4667– 4679. <https://doi.org/10.1111/mec.15246>. ¹*These authors contributed equally to the work*. ²*Corresponding authors*.

Seidl, F.♦, N. A. Levis♦, R. Schell♦, D. W. Pfennig¹, K. S. Pfennig¹, and I. M. Ehrenreich¹. 2019. Genome of *Spea multiplicata*, a rapidly developing, phenotypically plastic, and desert-adapted spadefoot toad. *G3: Genes, Genomes, Genetics*; *G3: Genes, Genomes, Genetics* 9(12): 3909-3919 <https://doi.org/10.1534/g3.119.400705>. ¹*Corresponding authors*.

Stirman, R.♦ and K. S. Pfennig¹. 2019. Competitively mediated changes in male toad calls can depend on call structure. *Behavioral Ecology* 30(5): 1344-1350 doi:10.1093/beheco/arz085. ¹*Corresponding author*.

Kelly, P. W. ♦, D. W. Pfennig, S. D. S. Buzón ♦, and K. S. Pfennig. 2019. Male sexual signal predicts phenotypic plasticity in offspring: implications for the evolution of plasticity and local adaptation. *Philosophical Transactions of the Royal Society B: Biological Sciences* **374**, 20180179.

(Invited contribution to theme issue on “The role of plasticity in phenotypic adaptation to rapid environmental change”)

Burmeister, S. S., V. G. Rodriguez Moncalvo* and K. S. Pfennig. 2017. Monoaminergic integration of diet and social signals in the brains of juvenile spadefoot toads. *Journal of Experimental Biology* jeb.159954 doi: 10.1242/jeb.159954.

Pierce, A. A. ♦, R. Gutierrez*, A. M. Rice* and K. S. Pfennig¹. 2017. Genetic variation during range expansion: effects of habitat novelty and hybridization. *Proceedings of the Royal Society B - Biological Sciences* 284: 20170007. <http://dx.doi.org/10.1098/rspb.2017.0007>.

¹Corresponding author

Pfennig, K. S., A. L. Kelly ♦ and A. A. Pierce*. 2016. Hybridization as a facilitator of species range expansion. *Proceedings of the Royal Society B - Biological Sciences* 283: 20161329. <http://dx.doi.org/10.1098/rspb.2016.1329>.

Pfennig, K. S. 2016. Reinforcement as an initiator of population divergence and speciation. *Current Zoology* 62: 145–154.

(Invited contribution to special column on “Cascade Reinforcement”)

(Featured as cover article for the journal)

Schmidt, E. M. ♦ and K. S. Pfennig. 2016. Hybrid female mate choice as a species isolating mechanism: environment matters. *Journal of Evolutionary Biology* 29: 865-869.

Garcia, N. W. ♦, K. S. Pfennig¹, Sabrina S. Burmeister¹. 2015. Leptin manipulation reduces appetite and causes a switch in mating preference in the Plains spadefoot toad (*Spea bombifrons*). *PLoS ONE* 10(4): e0125981. doi: 10.1371/journal.pone.0125981. ¹These authors contributed equally to the work.

Pfennig, K. S., D. W. Pfennig, C. Porter ♦ and R. A. Martin. 2015. Sexual selection’s impacts on ecological specialisation: an experimental test. *Proceedings of the Royal Society B - Biological Sciences* 282: 20150217. doi: 10.1098/rspb.2015.0217.

Pfennig, K. S. and A. M. Rice*. 2014. Reinforcement generates reproductive isolation between neighbouring conspecific populations of spadefoot toads. *Proceedings of the Royal Society B - Biological Sciences* 281: 20140949.

(Featured as cover article for the journal)

Dhole, S. ♦ and K. S. Pfennig. 2014. Age-dependent male mating investment in *Drosophila pseudoobscura*. *PLoS ONE* 9(2): e88700. doi:10.1371/journal.pone.0088700

¹Abbott, R., D. Albach, S. Ansell, J. W. Arntzen, S. J. E. Baird, N. Bierne, J. Boughman, A. Brelsford, C. A. Buerkle, R. Buggs, R. K. Butlin, U. Dieckmann, F. Eroukhanoff, A. Grill, S. H. Cahan, J. S. Hermansen, G. Hewitt, A. G. Hudson, C. Jiggins, J. Jones, B. Keller, T. Marczewski, J. Mallet, P. Martinez-Rodriguez, M. Möst, S. Mullen, R. Nichols, A. W. Nolte, C. Parisod, K. Pfennig, A. M. Rice, M. G. Ritchie, B. Seifert, C. M. Smadja, R. Stelkens, J. M. Szymura, R. Vinöl, J. B. W. Wolf and D. Zinner. 2013. Hybridization and speciation. *Journal of Evolutionary Biology* 26: 229-246. ¹Order of authorship is alphabetical.

(Product of the European Science Foundation network 'Frontiers in Speciation Research' workshop "Hybridization in Speciation" for which I was an invited discussion leader)

Pfennig, K. S., V. G. Rodriguez Moncalvo* and S. S. Burmeister. 2013. Diet alters species recognition in juvenile toads. *Biology Letters* 9: 20130599; doi: 10.1098/rsbl.2013.0599

Rodriguez Moncalvo, V. G.*, S. S. Burmeister and K. S. Pfennig. 2013. Social signals increase monoamine levels in the tegmentum of juvenile Mexican spadefoot toads (*Spea multiplicata*). *Journal of Comparative Physiology - A* 199: 681-691.

Wünsch, L. K.♦ and K. S. Pfennig. 2013. Failed sperm development as a reproductive isolating barrier between species. *Evolution and Development* 15: 458-465.

(Featured in posting ("Wat is de Regel van Haldane ook alweer?") on Scienitias.nl, a popular science website in the Netherlands and Belgium, December 2014)

Bazazi, S.♦, K. S. Pfennig, N. O. Handegard and I. D. Couzin. 2012. Vortex formation and foraging in polyphenic spadefoot toad tadpoles. *Behavioral Ecology and Sociobiology* 66: 879-889.

Chunco, A. J.♦, T. Jobe* and K. S. Pfennig. 2012. Why do species co-occur? A test of alternative hypotheses describing abiotic differences in sympatry versus allopatry using spadefoot toads. *PLoS ONE* 7(3): e32748. doi:10.1371/journal.pone.0032748.

Leichty, A. R.♦, D. W. Pfennig, C. D. Jones and K. S. Pfennig. 2012. Relaxed genetic constraint is ancestral to the evolution of phenotypic plasticity. *Integrative and Comparative Biology* 52: 16-30.

(Invited peer-reviewed contribution to special society-wide symposium "The Impacts of Developmental Plasticity on Evolutionary Innovation and Diversification")

Pfennig, D. W. and K. S. Pfennig. 2012. Development and evolution of character displacement. *The Year in Evolutionary Biology-2011: Annals of the N.Y. Academy of Sciences* 1256: 89-107.

(Invited peer-reviewed contribution to annual volume)

Pfennig, K. S., A. Allenby, R. A. Martin♦, A. Monroy* and C. D. Jones. 2012. A suite of molecular markers for identifying species, detecting introgression and describing population structure in spadefoot toads (*Spea* spp.). *Molecular Ecology Resources* 12: 909-917.

Pfennig, K. S. and A. H. Hurlbert. 2012. Heterospecific interactions and the proliferation of sexually dimorphic traits. *Current Zoology* 58: 453-462.

(Invited peer-reviewed contribution to special column on "Sexual selection and speciation")

Pfennig, K. S. and A. B. Stewart*. 2011. Asymmetric reproductive character displacement in male aggregation behavior. *Proceedings of the Royal Society B - Biological Sciences* 278: 2348-2354.

Pfennig, D. W. and K. S. Pfennig. 2010. Character displacement and the origins of diversity. *American Naturalist* 176: S26-S44.

(Invited peer-reviewed contribution to special theme issue "Darwinian Thinking: 150 years after the "Origin"")

Pfennig, K. S. and D. W. Pfennig. 2009. Character displacement: ecological and reproductive responses to a common evolutionary problem. *The Quarterly Review of Biology* 84: 253-276.

- Pfennig, K. S. 2008. Population differences in condition-dependent sexual selection may promote divergence in non-sexual traits. *Evolutionary Ecology Research* 10: 763-773.
- Rice, A. M. ♦, D. E. Pearse ♦, T. Becker ♦, R. A. Newman, C. Lebonville*, G. R. Harper ♦ and K. S. Pfennig. 2008. Development and characterization of nine polymorphic microsatellite markers for Mexican spadefoot toads (*Spea multiplicata*) with cross-amplification in Plains spadefoot toads (*S. bombifrons*). *Molecular Ecology Resources* 8: 1386-1389.
- Pfennig, K. S. 2007. Facultative mate choice drives adaptive hybridization. *Science* 318: 965-967.
- (Highlighted in article by Moises Velasquez-Manoff in The New York Times Magazine ("Should You Fear the Pizzly Bear?"), August 2014)*
- (Featured in article by David Robson in New Scientist ("Dangerous Liaisons"), December 2012)*
- (Highlighted in book of fiction A Discovery of Witches by Deborah Harkness, 2011)*
- (Subject of a Research Focus article by Dr. H. U. Reyher in Trends in Ecology and Evolution 23: 289-292 ("Mating with the wrong species can be right"))*
- (Faculty of 1000 "Must Read" article)*
- (Featured on AAAS's EurekAlert online news source in their "Especially For Kids" section)*
- (Subject of article by Heidi Ledford on Nature News, Nature's online new magazine ("Toads mate across the species divide"), November 2007)*
- (Subject of article by Susan Milius in Science News ("Mr. Not Wrong: Not my species? Not a problem"), November 2007)*
- (Featured on international news outlets, podcasts, magazines, and blogs, including BBC online, Bild der Wissenschaft [a German science magazine], Conservation Magazine, New Scientist Magazine [both print and online], Smithsonian Magazine, Natural History Magazine [both print and online], the Tucson Daily Star, and "This Week in Evolution")*
- Pfennig, K. S., A. J. Chuncó ♦ and A. C. R. Lackey*. 2007. Ecological selection and hybrid fitness: hybrids succeed on parental resources. *Evolutionary Ecology Research* 9: 341-354.
- Pfennig, K. S. and M. J. Ryan. 2007. Character displacement and the evolution of mate choice: an artificial neural network approach. *Philosophical Transactions of the Royal Society B - Biological Sciences* 362: 411-419.
- (Invited peer-reviewed contribution to special theme issue "The use of neural networks to study perception in animals")*
- Pfennig, D. W., G. R. Harper ♦, Jr., A. F. Brumo*, W. R. Harcombe* and K. S. Pfennig. 2007. Population differences in predation on Batesian mimics in allopatry with their model: selection against mimics is strongest when they are common. *Behavioral Ecology and Sociobiology* 61: 505-511.
- Vásquez, T. ♦ and K. S. Pfennig. 2007. Looking on the bright side: females prefer coloration indicative of male size and condition in the sexually dichromatic spadefoot toad, *Scaphiopus couchii*. *Behavioral Ecology and Sociobiology* 62: 127-135.
- (Highlighted in, and "suggested reading" for, web article "It's not just his croak" by Susan*

Milius in Science News web edition, March 2009)

Pfennig, K. S. and M. J. Ryan. 2006. Reproductive character displacement generates reproductive isolation among conspecific populations: an artificial neural network study. *Proceedings of the Royal Society B - Biological Sciences* 273: 1361-1368.

Pfennig, K. S. and D. W. Pfennig. 2005. Character displacement as the “best of a bad situation”: fitness trade-offs resulting from selection to minimize resource and mate competition. *Evolution* 59: 2200-2208.

Pfennig, K. S. 2003. A test of alternative hypotheses for the evolution of reproductive isolation between spadefoot toads: support for the reinforcement hypothesis. *Evolution* 57: 2842-2851.

Pfennig, K. S. and M. A. Simovich. 2002. Differential selection to avoid hybridization in two toad species. *Evolution* 56: 1840-1848.

Pfennig, K. S. and R. C. Tinsley. 2002. Different mate preferences by parasitized and unparasitized females potentially reduces sexual selection. *Journal of Evolutionary Biology* 15: 399-406.

Pfennig, K. S. 2001. Evolution of pathogen virulence: the role of variation in host phenotype. *Proceedings of the Royal Society of London Series B - Biological Sciences* 268: 755-760.

Pfennig, D. W., W. R. Harcombe* and K. S. Pfennig. 2001. Frequency-dependent Batesian mimicry. *Nature* 410: 323.

(Featured in Chapter 4 (“Life Imitates Life”) of the book Remarkable Creatures: Epic Adventures in the Origin of Species, by Sean B. Carroll, 2009)

(Featured in Chapter 1 of a major Biology text to introduce undergraduates to science as a process of discovery and inquiry: Biology, 7th edition, by Campbell and Reese, 2004)

(Subject of an article by J. Whitfield Gibbons in The 2002 Britannica Book of the Year as one of the scientific breakthroughs of the year (p. 235))

(Subject of an article in Natural History by Richard Milner (“Snake Fakery”, June 2001, p. 18))

Pfennig, K. S. 2000. Female spadefoot toads compromise on mate quality to ensure conspecific matings. *Behavioral Ecology* 11: 220-227.

(Subject of radio program “Pulse of the Planet” produced by Jim Metzner and distributed by Public Radio International)

(Featured as cover article for the journal)

Pfennig, K. S., K. Rapa* and R. McNatt*. 2000. Evolution of male mating behavior: male spadefoot toads preferentially associate with conspecific males. *Behavioral Ecology and Sociobiology* 48: 69-74.

(Subject of an article by Ruth Bennett in Science News (“Single singing male toad seeks same”), June, 2000)

Pfennig, K. S. 1998. The evolution of mate choice and the potential for conflict between species and mate-quality recognition. *Proceedings of the Royal Society of London Series B - Biological Sciences* 265: 1743-1748.

Pfennig, K. S. and J. K. Conner. 1997. Pollen limitation in an experimental population of the wild radish *Raphanus raphanistrum*. *Canadian Journal of Botany* 75: 72-73.

Suarez, A. V., K. S. Pfennig and S. K. Robinson. 1997. Nesting success of a disturbance-dependent songbird on different kinds of edges. *Conservation Biology* 11: 928-935.

RESEARCH SUPPORT

Sole principal investigator on all grants unless noted

Major Grants:

Current

2016-2020 "Behavioral dysfunction and the evolution of reproductive isolation between species", funded by National Science Foundation (\$528,534 total award (\$347,720 direct costs); IOS-1555520)

Completed

2016-2018 "EAGER: Does adaptation facilitate or constrain further adaptation? Evaluating the origins of character displacement", funded by National Science Foundation (\$150,000 total award (\$98,684 direct costs); DEB-1643239; co-PI with Dr. David Pfennig)

2008-13 "The origins and maintenance of context-dependent behavior", funded by the Office of the Director, National Institutes of Health (NIH Director's New Innovator Award; \$2,218,875 total award (\$1,500,000 direct costs); 1DP2OD004436-01)

2006-09 "Hybridization and its evolutionary consequences" funded by National Science Foundation (\$334,733 total award (\$229,269 direct costs); DEB-0542566)

2005-07 "The role of mate recognition in speciation: a neural network approach", funded by National Science Foundation ("starter" grant; \$50,000 total award and direct costs (\$0 indirect costs); IOB-0455380)

Smaller Grants & Supplements (for all, total award = direct costs):

2017 Research Experience for Teachers (RET) Supplement funded by National Science Foundation (\$15,000 total award; DEB 1721535)

2017 Research Experience for Undergraduates (REU) Supplement funded by National Science Foundation (\$7,000 total award; DEB 1721454)

2008-10 "The origins of condition-dependent behavior", University Research Council Research Award, University of North Carolina (\$4,837)

2008 Research Experience for Undergraduates (REU) Supplement funded by National Science Foundation (\$6,000 total award; DEB 0820797)

2007 Research Experience for Undergraduates (REU) Supplement funded by National Science Foundation (\$10,700 total award; DEB 0724270)

2006 Research Experience for Undergraduates (REU) Supplement funded by National Science Foundation (\$5,334 total award; DEB 0630292)

2000	NC State Univ. Summer Institute in Statistical Genetics Scholarship (\$600)
1998	Theodore Roosevelt Memorial Fund Grant (\$1,000)
1998	Univ. of Illinois Clark Research Support Grant (\$1,000)
1997	Sigma Xi Grant-in-Aid of Research (\$700)
1997	Southwestern Research Station Student Support Fund Grant (\$700)
1996	Animal Behavior Society Research Award (\$800)
1996	Univ. of Illinois Clark Research Support Grant (\$1,000)
1996	Sigma Xi Grant-in-Aid of Research (\$475)
1996	Theodore Roosevelt Memorial Fund Grant (\$900)
1996	Univ. Of Illinois Dissertation Research Grant (\$366)
1994	Univ. of Illinois Aid in Support of Research Award (\$150)

SCIENTIFIC PRESENTATIONS

Invited Plenary Speaker Presentation

2011	Association for the Study of Animal Behaviour International Meeting, London, U.K.
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Invited Symposia Presentations

2018	“Origins of Adaptive Radiation”; President’s Symposium of the American Genetic Association
2016	“Sex in the post-genome era”; Second Annual Symposium of the Texas A&M Institute for Genome Sciences and Society
2010	“Diversifying selection: speciation and the evolution of dimorphism”; Evolution 2010: joint meeting of the Society for the Study of Evolution (SSE), the Society of Systematic Biologists (SSB), and the American Society of Naturalists (ASN)
2006	“Acoustic interactions in animal groups”; Acoustical Society of America national meeting

Invited Workshops

2020	“Atmospheric Carbon Reduction”; Invited workshop participant; National Science Foundation Convergence Accelerator Workshop; virtual meeting
2017	“Scientific Revolutions and Changing Human Values”; Invited speaker; Carolina Public Humanities Adventures in Ideas Weekend Seminar Program.

- 2011 “Hybridization in Speciation”; Invited discussion leader; European Science Foundation network ‘Frontiers in Speciation Research’ workshop, Gregynog, Wales, U.K.
- 2011 “Bringing the Vision Together”; Invited workshop participant; *Eunice Kennedy Shriver* National Institute of Child Health and Human Development; Leesburg, VA.

Invited Seminars

- 2019 University Program in Ecology, Duke University (*graduate student invited speaker*)
- 2018 PopBio seminar, Department of Biology Duke University (*graduate student invited speaker*)
- 2016 Department of Applied Ecology, North Carolina State University (*graduate student invited speaker*)
- 2016 Chichester Colloquium, Department of Chemistry and Physics & Department of Biological and Environmental Sciences, Longwood University
- 2016 Department of Biology, University of North Carolina, Chapel Hill
- 2016 Mountain Lake Biological Station, University of Virginia
- 2015 Ecology, Evolution, and Behavior Department, University of Minnesota
- 2015 Ecology, Evolutionary Biology, and Behavior graduate program, Michigan State University (*graduate student invited speaker*)
- 2015 Kellogg Biological Station, Michigan State University
- 2013 Committee on Evolutionary Biology, EvoMorph seminar; University of Chicago
- 2013 Population Biology, Ecology & Evolution, Emory University (*graduate student invited speaker*)
- 2013 University Program in Ecology, Duke University (*graduate student invited speaker*)
- 2013 American Museum of Natural History’s Southwestern Research Station
- 2012 Department of Biological Sciences, Florida State University
- 2012 American Museum of Natural History’s Southwestern Research Station
- 2011 Biology Department, City College of New York (*graduate student invited speaker*)
- 2011 Department of Biology, Boston University
- 2010 Department of Biology, Duke University
- 2010 Kellogg Biological Station, Michigan State University
- 2010 School of Biological Sciences, University of Nebraska, Lincoln
- 2010 Department of Biological Sciences, University of Cincinnati
- 2009 Department of Biology, University of North Carolina, Chapel Hill
- 2008 Department of Biology and Center for the Integrative Study of Animal Behavior (co-sponsors), Indiana University
- 2008 Department of Ecology & Evolutionary Biology, Princeton University (*“Young Investigator Seminar”*)
- 2007 Section of Neurobiology & Behavior, Cornell University

2007 Evolutionary Biology & Ecology Research Program, University of Missouri
2007 American Museum of Natural History's Southwestern Research Station

2006 Zoology Department, North Carolina State University

2004 Department of Behavior, Ecology, Evolution and Systematics, University of Maryland (*graduate student invited speaker*)
2004 Program in Ecology, Duke University

2003 Department of Biology, North Carolina Central University

2002 Department of Science, University of North Carolina, Pembroke
2002 Department of Biology, University of North Carolina, Chapel Hill
2002 Department of Biology, Colorado State University
2002 Department of Biology, University of North Carolina, Greensboro

2001 Department of Ecology & Evolution, Rice University
2001 Department of Biology, Southwest Texas State University
2001 Section of Integrative Biology, University of Texas at Austin

2000 Zoology Department, North Carolina State University

1999 School of Biological Sciences, University of Bristol, U.K.
1999 Department of Biology, East Carolina University
1999 American Museum of Natural History's Southwestern Research Station

1998 American Museum of Natural History's Southwestern Research Station

1997 Population Biology Group, Duke University

1996 Section of Neurobiology & Behavior, Cornell University

Professional conference presentations by self, lab members & collaborators

*denotes: ■K-12 student senior author; *undergraduate senior author; ♦graduate student senior author*

2019 Evolution 2019: joint meeting of SSE/SSB/ASN (two talks♦)
2019 Joint Meeting of Ichthyologists and Herpetologists (poster♦; winner of Society for the Study of Amphibians and Reptiles Hutchison Ecology, Natural History, Distribution and Behavior Award)

2018 International Society for Behavioral Ecology International Meeting (talk♦; poster♦)

2016 Evolution 2016: joint meeting of SSE/SSB/ASN (talk♦; two student posters*♦)

2014 Evolution 2014: joint meeting of SSE/SSB/ASN (talk; poster■)

2013 Animal Behavior Society National Meeting (poster*)

2012 Eighth Annual National Institutes of Health Director's Pioneer Award Symposium (poster)

2012 President's Symposium on Behavioral Plasticity and Evolution, Animal Behavior Society National Meeting (poster♦)

2012 Society for Integrative and Comparative Biology National Meeting (poster♦)

2011 Society for Integrative and Comparative Biology National Meeting (two posters♦)

2011 Association for the Study of Animal Behaviour International Winter Meeting, London, U.K. (poster♦)

- 2010 Sixth Annual National Institutes of Health Director's Pioneer Award Symposium (poster)
- 2010 Evolution 2010: joint meeting of SSE/SSB/ASN (poster♦)
- 2007 Historically Black Colleges and Universities Undergraduate Program National Research Conference (poster*)
- 2007 International summit, "Evolutionary Change in Human-Altered Environments", Institute of the Environment, University of California, Los Angeles (poster♦)
- 2006 Evolution 2006: joint meeting of SSE/SSB/ASN (poster)
- 2006 Annual Biomedical Research Conference for Minority Students (poster*)
- 2005 Evolution 2005: joint meeting of SSE/SSB/ASN (poster♦)
- 2004 Evolution 2004: joint meeting of SSE/SSB/ASN (talk)
- 2002 Society for Integrative and Comparative Biology National Meeting (talk)
- 2001 Society for Integrative and Comparative Biology National Meeting (talk)
- 2000 Society for Integrative and Comparative Biology National Meeting (talk)
- 1998 International Society for Behavioral Ecology International Meeting (talk)
- 1997 Evolution 1997: joint meeting of SSE/SSB/ASN (talk)
- 1996 Animal Behavior Society National Meeting (poster)

Other Invited Presentations

- 2020 Award Ceremony, The NSF 2026 Idea Machine: Identifying New Directions for Research, National Science Foundation, Washington, D.C.
- 2011 North Carolina Herpetological Meeting, Columbia, NC
- 2008, 09, 11 Panelist, "Lunch with the Experts" Panel, Graduate Funding 101 Workshop, Graduate Student Professional Development Program, University of North Carolina
- 1998 Natural history tour of Mason Farm Biological Reserve for University of North Carolina's βββ honor society

LEADERSHIP TRAINING & DEVELOPMENT

- 2017 Academic Leadership Program, Institute for the Arts and Humanities, University of North Carolina
- 2016 Leadership Development Program, Center for Creative Leadership, Greensboro, NC
- 2015 Faculty Mentorship Training Program, Center for Faculty Excellence, University of North Carolina

TEACHING & MENTORING

Courses Taught

University of North Carolina

- Biol 469 Behavioral Ecology. Alternate years, 2007-2017; Yearly 2020-present; Maymester 2018, 2019.

Biol/Ecol 602 Professional Development Skills for Ecologists and Biologists.
Alternate years, 2007-present (excluding Fall, 2013)

Biol 201 Ecology and Population Biology. Alternate Falls, 2004-2012.

Biol 669 Graduate Seminars:
 "Extinction" 2019; scheduled 2021
 "Readings in Behavioral Ecology" 2015
 "Next Generation Sequencing Techniques in Ecology & Evolution" 2013 (co-taught with Dr. Chris Willett)
 "Does Ecology Need Evolution?" 2012 (co-taught with Dr. John Bruno)
 "Character Displacement and the Origins of Diversity" 2010 (co-taught with Dr. David Pfennig)
 "Frontiers in Behavioral Ecology" 2008
 "Professional Development Skills" 2006

North Carolina Central University

Biol 4200 Introduction to Biostatistics. 2004

American Museum of Natural History's Southwestern Research Station

Guest instructor, Field Herpetology of the Southwest, Summers, 2011-present

Postdoctoral Scholars Advised

2015-2017 Dr. Spencer Ingley, NSF Postdoctoral Fellowship recipient (currently Assistant Professor, Brigham Young University, Hawaii)

2015-2017 Dr. Amanda Pierce, SPIRE Fellowship recipient (currently AAAS science and policy fellow, Environmental Protection Agency)

2011 Dr. Amber Rice (currently Assistant Professor, Lehigh University)

2010-2011 Dr. Verónica Rodríguez Moncalvo (currently instructor, University of Guelph and Wilfrid Laurier University, Canada)

Graduate Thesis Committees Chaired (*all are UNC Biology*)

2017-present Doctoral thesis committee, Bryan Reatini

2019-2020 Master's thesis committee, Sunil Khatiwada

2016 Master's thesis committee, Laura Sligar

Graduate Students Advised

2018-present Doctoral Thesis Advisor to Patrick Kelly (co-advisor with Dr. David Pfennig)

2016-present Doctoral Thesis Advisor to Catherine Chen (NSF Predoctoral Fellowship recipient)

2015-present Doctoral Thesis Advisor to Gina Calabrese

2012-2020 Doctoral Thesis Advisor to Audrey Kelly

2015-2018 Master's Thesis Advisor to Rebecca O'Brien (currently doctoral candidate, Department of Fish and Wildlife Conservation, Virginia Tech)

2014-2019 Doctoral Thesis Advisor to Sofia De La Serna Buzon (co-advisor with Dr. David Pfennig; currently Research Associate, Department of Cardiology, Boston Children's Hospital, Boston)

2010-2015 Doctoral Thesis Advisor to Emily Schmidt (New York City Teaching Fellow; currently faculty member in the Biology Department of The Bronx High School of Science)

2007-2014 Doctoral Thesis Advisor to Sumit Dhole (co-advisor with Dr. Maria Servedio; currently, postdoctoral scholar at North Carolina State University)

- 2004-2009 Doctoral Thesis Advisor to Amanda Chunco (co-advised with Dr. Maria Servedio; currently Associate Professor, Elon College)
- 2007-2009 Master’s Thesis Advisor to Elizabeth Wojtowicz (last known position: home maker, Cincinnati, OH)
- 2004-2006 Master’s Thesis Advisor to Tatiana Vásquez; (currently faculty member, San Bernadino Valley College, CA)

Other Graduate Mentorship

- 2019 External examiner for doctoral committee, Ciara Kernan, Dartmouth University
- 2012-2013 Research Advisor to Lisa Wünsch, University of Tübingen, Germany

Graduate Committee Membership

(all are doctoral students at UNC unless noted)

- 2020-present Jonathan Colen, Duke University
- 2020-present Andrew Isander
- 2020-present Laura Mendez
- 2019-present Emily Harmon
- 2019-present Cody Sorrell
- 2018-present Arielle Fogel, Duke University
- 2016-present Pranav Khandelwal
- 2015-2020 Nicholas Levis
- 2014-2019 Christopher Akcali
- 2018 Robert Ventura (Master’s thesis committee)
- 2013-2018 Justin Yeh
- 2012-2018 Dave Ernst
- 2012-2016 Susan Lyons
- 2012-2016 Scott Jones, East Carolina University
- 2011-2019 Antonio Serrato
- 2011-2016 Yuxiang Liu
- 2011-2015 Justa Heinen, North Carolina State University
- 2010-2014 Nicholas Garcia (Master’s thesis committee)
- 2010-2012 Jeffrey Paull (Master’s thesis committee)
- 2009-2011 Aaron Leichty (Master’s thesis committee)
- 2009-2013 David Kikuchi
- 2008-2015 Joel Adamson
- 2008-2012 Alicia Frame
- 2008-2011 Pamela Reynolds
- 2005-2010 Ryan Martin
- 2005-2010 Mukta Chakraborty
- 2005-2010 Lisa Mangiamele
- 2004-2008 Mathew McKown
- 2002-2008 Amber Rice
- 2003-2007 Elizabeth Derryberry, Duke University
- 2001-2006 George Harper

Undergraduate Student Researchers Supervised

(all are Biology undergraduates at UNC unless noted otherwise)

- 2019-present William Sabo
- 2015-16 Rafael Gutierrez; graduated with “Honors”; BEACON Undergraduate Diversity at Evolution Travel Award recipient for Evolution 2016 meeting

2014-16 Bri Sikorski, currently graduate student, Folk Studies, University of North Carolina

2014-15 Matthew Zipple, graduated with “Honors”; R. E. Coker Award recipient; currently doctoral student in Biology, Duke University

2012-15 Jonathan Villanueva; currently in UNC’s Postbaccalaureate Research Education Program to prepare for doctoral research

2013-14 Kaitlyn Ferguson; graduated with “Research Commendation”; currently attending veterinary school

2013-14 Sarah Bradford; graduated with “Research Commendation”

2012-14 Justin Dizon; graduated with “Research Commendation”

2011-13 Daijha Copeland, HHMI-FSC Fellow; Dept. of Psychology; attended graduate school in Pharmacy at UNC

2012-13 Jennifer Schneider

2012-13 Matthew Safford; graduated with “Research Commendation”; currently Master’s student in Entomology, University of Illinois

2012-13 Eva Stein; graduated with “Honors”; attending medical school

2011-13 Natasha Fisher; graduated with “Honors”; attended graduate school.

2010-12 Julie Kang; graduated with “Research Commendation”; attended veterinary school, Washington State University

2010-12 Joshua Dilley; graduated with “Highest Honors”; attended medical school

2010-12 Lindsay Ross; graduated with “Honors”; last known position: physician at the Cleveland Clinic

2008-10 Katrina Posey; graduated with “Highest Honors”; attended veterinary school, North Carolina State University

2007-10 Elizabeth Alloway; graduated with “Honors”; attended veterinary school, North Carolina State University

2008-09 Michael Pierre; attended law school

2007-09 Haley Davis; graduated with “Honors”; attended Master’s program, University of British Columbia

2006-09 Alyssa Stewart; graduated with “Honors”; Ph.D. student, University of Maryland; recipient of Rosemary Grant Research Award from the Society for the Study of Evolution and a NSF Graduate Research Fellowship

2007-08 Heidi Block

2006-07 Graham Zimmerman

2006-07 Kelly Haisley; graduated 2007 with “Honors”; attended medical school, University of Washington

2006-07 Meagan Scott; graduated 2007 with “Honors”

2007-08 Laura Exline; last known continuing education Humboldt State University

2005-07 Christine Bookhout; graduated 2007 with “Highest Honors”; R. E. Coker Award recipient; attended medical school, Harvard University

2006 Kristen Reynolds, Partnership for Minority Advancement in the Biomolecular Sciences (PMABS) intern from Johnston C. Smith University; last known applying to graduate programs in neurobiology

2005-06 Christina Lebonville; graduated 2006 with “Honors”; lab technician, University of North Carolina

2005-06 Amber Somerville; graduated 2006 with “Research Commendation”; attended PA program, Duke University

- 2005-06 Alycia Reynolds Lackey; graduated 2006 with “Honors”; received Ph.D. from Michigan State University; currently an Assistant Professor at the University of Louisville studying behavioral and evolutionary ecology
- 2005-06 Hsin Chen; graduated 2006 with “Research Commendation”
- 2005 Alex Sheng; attended medical school, University of North Carolina
- 2004-05 Holly Tuten; Master’s student and NSF Predoctoral Fellow recipient, Clemson University
- 2004-05 Daniel Anderson; graduated 2005 with “Research Commendation”; received MPH from University of North Carolina; last known position as Public Health Officer, US Air Force
- 2004-05 Alison Carr
- 2003-04 Alice Wessel
- 1999-00 Jay Marlowe; graduated 2000 with “Honors”; R. E. Coker Award recipient; received MSW and last known doing social work in Australia
- 1997-98 Regan McNatt; graduated 1998 with “Research Commendation”; received MS in Zoology from North Carolina State University; last known position at NOAA
- 1997-98 Katrina Rapa; graduated 1998 with “Highest Honors”; received MD/MPH from University of North Carolina; currently physician in California

High School Student Researchers Supervised

- 2020-present Bryson Loflin, North Carolina School of Science and Math High School
- 2013-14 Simone Grant, North Carolina School of Science and Math High School
- 2004-05 C. Rebecca Woltz; North Carolina School of Science and Math High School; attended North Carolina State University

Research Experience for Teacher Mentorship

- 2017 Katie Crews, 7th Grade Teacher, Trinity Middle School of Durham, NC

OUTREACH

- 2021 Discussion Leader, L. Russ Bush Center for Faith and Culture, Southeastern Baptist Theological Seminary; providing a scientist’s perspective on the topic of the “Goodness of Creation”
- 2019-present Regional Discussion Fellow, L. Russ Bush Center for Faith and Culture, Southeastern Baptist Theological Seminary aimed at building discussion between scientists and theologians.
- 2018-present Mentor/role model volunteer, Girls Advancing in STEM (GAINS) Network, an online network of students, teachers, and professional scientists to support high school girls’ career development in STEM fields.
- 2018-present Co-organizer, “Faith and Science Collective” (www.faihandsciencecollective.org) for “Creating healthy conversations on questions of faith and science.”
- 2016-present Co-organized multiple events to foster community conversations on faith and science

- 2020 Research featured by National Science Foundation' *Science Nation* Video Series. Available on YouTube at: <https://youtu.be/k-AIJicehEo>
- 2020 Delivered three presentations on "What does a biologist do?" for McDougle Elementary School 2nd Grade classes (~30 students and their teachers), Chapel Hill, NC
- 2018 Gizmodo (a science and technology website, with 20 million monthly readers) contribution in response to "Giz Asks"
- 2018 Delivered presentation "Why do they do that? Adventures in behavioral ecology" to ~50 students for Trinity School of Durham and Chapel Hill, Durham, NC
- 2018 Delivered presentation "Why do they do that? Adventures in behavioral ecology" to ~50 students and their teachers for Grey Culbreth Middle School Science Day, Chapel Hill, NC
- 2016-2018 STEAM Grant (\$14,600) recipient with Rev. Will Rose (Holy Trinity Lutheran Church, Chapel Hill, NC), Dr. Al Goshaw (James B. Duke Professor of Physics, Duke University) and Dr. Matthew Goodson (at time, doctoral student in Physics and Astronomy, UNC) to foster conversations between local faith community, college students, the public, and scientists at Duke and UNC
- 2016 Delivered technical talks and lab tour for the Girls Advancing in STEM (GAINS) Conference, a national conference for high school girls interested in STEM careers. Organized by the GAINS network and co-sponsored by Duke University and UNC
- 2015 Delivered presentation "Why do they do that? Adventures in behavioral ecology" to ~40 students and their teachers for Grey Culbreth Middle School Science Day, Chapel Hill, NC
- 2012 Delivered presentation "Behavior and Evolution" for the "Periodic Tables" seminar series, Durham's Science Cafe produced by the Museum of Life and Science, Durham, NC
- 2011 Delivered presentation "What does a biology professor do?" for Rashkis Elementary School 2nd Grade class (~30 students and their teachers), Chapel Hill, NC
- 2010 Judge, final round of NC International Science Challenge
- 2009 Delivered presentation "How to be a biologist" for entire 1st Grade (~90 students and their teachers) at Rashkis Elementary School, Chapel Hill, NC; developed accompanying pamphlet "How to be a biologist" for elementary students, their teachers, and parents.
- 2008 Guest, "Radio In Vivo" science interview program on WCOM-FM with Ernie Hood, host.
- 2006 Organized a UNC Science Spectrum educational and recruitment event at Univ. of North Carolina entitled "The Science of Evolution" for approximately 300 high school students from across North Carolina

PROFESSIONAL SERVICE

Editorial Positions

- 2016-2018 Editor-in-Chief, *Oxford Bibliographies in Evolutionary Biology*
- 2011-2016 Associate Editor, *Proceedings of the Royal Society B - Biological Sciences* (The Royal Society, London)
- 2012-2016 Deciding Editor, *Journal of Evolutionary Biology* (European Society for Evolutionary Biology's international journal)
- 2014-2016 Advisory Editor, *Oxford Bibliographies in Evolutionary Biology*

Advisory Boards and Review Panels

- 2016-present Member, SPIRE Advisory Committee, SPIRE Postdoctoral Fellowship Program, UNC Graduate College
- 2014-present Member, UNC Division of Comparative Medicine (DCM) Advisory Committee
- 2017 Panelist, Proposal Review Panel for Animal Behavior, National Science Foundation
- 2013-2016 Council Member (*elected*), Society for the Study of Evolution
- 2013-2014 Member, National Evolutionary Synthesis Center Advisory Board
- 2007 Panelist, Proposal Review Panel for Animal Behavior, National Science Foundation
- 2004-07 Member, Southwestern Research Station Advisory Committee, American Museum of Natural History
- 2005 Panelist, National Science Foundation Program in Animal Behavior Doctoral Dissertation Improvement Grant Panel

Referee Activities

Journals & Publishers

American Naturalist; Animal Behaviour; Animal Cognition; Annales Zoologici Fennici; Behavioral Ecology; Behavioral Ecology and Sociobiology; Biology Letters; BMC Evolutionary Biology; Cell; Copeia; Current Zoology; Ecology; Ecology Letters; Ethology; Evolution; Evolutionary Ecology; Heredity; Herpetological Journal; Journal of Animal Ecology; Journal of Biogeography; Journal of Herpetology; Journal of Evolutionary Biology; Journal of Theoretical Biology; Molecular Ecology; Nature Climate Change; Nature Communications; Naturwissenschaften; New Phytologist; Proceedings of the Royal Society B: Biological Sciences; Science; Sinauer Associates, Inc.; Trends in Ecology and Evolution; W.W. Norton & Company; Zoological Science

Funding Organizations

Czech Science Foundation; National Geographic; National Science Foundation; Swedish Research Council (served as International Reviewer for European Young Investigator Awards); Leibniz Association (served as reviewer for the Leibniz Junior Research Group competition)

External Faculty Promotions

Colorado State University; Eawag, Swiss Federal Institute of Aquatic Science and Technology; Tulane University; University of the Pacific

Other Extramural Service

2016	Member, Gould Committee, Society for the Study of Evolution
2015, 2016	Member, Stearns Graduate Student Prize Review Committee for the European Society for Evolutionary Biology
2014	Chair, "Evolution 2014" Program Committee for the 2014 joint meeting of Society for the Study of Evolution, the Society of Systematic Biologists, and the American Society of Naturalists in Raleigh, NC
2013-14	Member, Rosemary Grant Committee, Society for the Study of Evolution
2011-14	Member, "Evolution 2014" Organizing Committee; organizing the 2014 joint meeting of Society for the Study of Evolution, the Society of Systematic Biologists, and the American Society of Naturalists in Raleigh, NC
2008	Abstract reviewer, International Society for Behavioral Ecology's international meeting at Cornell University
2001-02	Member, Judging Committee, Student Paper and Poster Awards, Division of Animal Behavior, Society for Integrative and Comparative Biology National Meetings
2000	Sigma Xi Grant-in-Aid of Research guest reviewer

University and Departmental (UNC Biology, unless otherwise noted) Service

2020-present	Peer Mentoring Circle Facilitator, for UNC's Targeting Equity in Access to Mentoring (TEAM) ADVANCE program (<i>A NSF funded program to enhance faculty diversity in STEM</i>)
2020-present	Chair, Arts and Sciences Representative Member, UNC Appointments, Promotion and Tenure Committee (<i>elected by members of the committee</i>)
2020-present	Member, UNC Chancellor's Advisory Committee (<i>ex officio</i> as APT chair)
2018-present	Member, Graduate Programs Committee
2019-present	Member, Undergraduate Studies Committee
2019	Reviewer, UNC IDEA Grant competition
2019	Member, Goldwater Scholarship selection committee, College of Arts and Sciences, UNC
2018-2020	Member, Arts and Sciences Representative Member, UNC Appointments, Promotion and Tenure Committee (<i>elected by the faculty of UNC's College of Arts and Sciences for three-year term; final year served as chair</i>)
2018	Chair, Curriculum Revision Working Group
2017-2018	Member, Convergent Science Planning & Vision Committee, College of Arts and Sciences, UNC
2017- 2018	Member, Tenure and Promotion Committee within Biology (evaluation of candidate for promotion to Teaching Professor)
2016	Member, Summer Undergraduate Research Fellowship (SURF) Natural Sciences Selection Committee, Office for Undergraduate Research, UNC
2015	Member, Graduate Student Services Search Committee
2014-2018	Member, Chairman's Advisory Committee
2014-2018	Member, Development Committee
2014	Chair, Teaching Load Working Group
2014	Member, SPIRE Fellowship Application Review Committee, SPIRE Postdoctoral Fellowship Program, UNC Graduate College
2013-2018	Associate Chair for Academic Affairs
2013-2018	Member (<i>ex officio</i>), Undergraduate Studies Committee
2013-2015	Member, EEOB Graduate Studies and Admissions
2013-2014	Chair, Faculty Search Committee for Evolutionary Biology
2012-2013	Chair, EEOB Graduate Studies and Admissions Committee
2012-2013	Chair, Faculty Search Committee for Evolutionary Biology

2012-2013 Member, Biology Space Committee
 2012-2013 Member, Biology Web Site Committee
 2012 Member, Graduate Student Services Search Committee
 2011-2012 Member, Faculty Search Committee for Metagenomics
 2010 Member, Bachelor of Science Curriculum Evaluation Committee, Curriculum for the Environment and Ecology, UNC
 2008-2012 Chair, EEOB Graduate Admissions/Awards Committee
 2008-2012 Liaison, Graduate Programs Committee
 2007-08 Member, Graduate Admissions Committee
 2007-08 Member, Faculty Search Committee for Ecology
 2005-2009 Member, Library Committee
 2004-08 Member, Graduate Admissions Committee, Ecology Curriculum, UNC
 2004-08 Member, Undergraduate Studies Committee
 2005-08 Instigated and organized bi-weekly Evolution, Ecology, and Organismal Biology (EEOB) Seminar Series
 2004-07 Member, Advising Committee
 2005 Faculty Secretary
 2004-05 Member, Graduate Admissions Committee
 1999-00 Member, Mason Farm Biological Reserve Committee, UNC