

Curriculum vitae of

Michael E. Dorcas, Ph.D.

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Career Highlights

- Former Endowed Professor of Biology (Davidson College) with 30+ years of academic and research experience
 - Author or coauthor of more than 150 scholarly publications, including 118 peer-reviewed journal articles in outlets such as *Proceedings of the National Academy of Sciences* (PNAS), 25 book chapters, and 8 books
 - Secured more than \$2.2 million in competitive research funding from organizations including NSF, USGS, USFWS, the Department of Defense, and Duke Energy
 - Fellow of the American Association for the Advancement of Science (AAAS)
 - Recipient of the National Science Foundation CAREER Award
 - Founder and Principal Consultant of Tantilla Consulting, providing scientific writing, environmental review, manuscript development, research assessment, and grant strategy
 - Recent consulting work spans environmental-impact assessment, marine research strategy, interdisciplinary manuscript editing, nonprofit funding, and scientific communication
 - Current scientific reviewer and biological subject-matter expert for laboratory-animal, life-sciences, and AI evaluation projects
 - Directed and mentored more than 70 student researchers and supervised projects from concept to publication
 - Delivered 160+ scientific presentations and 70+ invited seminars at regional, national, and international venues
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Education

1995 Ph.D. Biology, Idaho State University. Major Advisor: Charles R. Peterson

1990 M.S. Biology, The University of Texas at Arlington. Major Advisor: J.A. Campbell

1986 B.S. Biology, The University of Texas at Arlington. Major Advisor: J.A. Campbell

Professional History

2025 – present	Founder and Principal Consultant, Tantilla Consulting
2021 – 2025	Science Instructor, Adult Continuing Education Program, FCI Fort Dix, NJ
2016 – 2020	Owner/Operator, GreenFrog Online Retail, Huntersville, NC
2015 – 2016	Nancy and Erwin Maddrey Professor of Biology, Davidson College, NC
2011 – 2015	Professor of Biology, Department of Biology, Davidson College, NC
2004 – 2011	Associate Professor, Department of Biology, Davidson College, NC
2009 – 2010	Visiting Research Scientist, University of Georgia - Savannah River Ecology Laboratory (sabbatical), Aiken, SC
1998 – 2004	Assistant Professor, Department of Biology, Davidson College, NC

2002 – 2003	Visiting Research Scientist, University of Georgia - Savannah River Ecology Laboratory (sabbatical), Aiken, SC
1995 – 1998	Postdoctoral Fellow, University of Georgia - Savannah River Ecology Laboratory, Aiken, SC
1997 – 1998	Instructor, Introductory Biology, Univ. of South Carolina at Aiken, SC
1994 – 1995	Research Associate, Idaho State University, Pocatello, ID
1991 – 1994	Teaching Assistant (Advanced Human Physiology and Advanced Human Anatomy) Idaho State University, Pocatello, ID
1990 – 1995	Herpetological Collections Manager, Idaho State University, Pocatello, ID
1990 – 1991	Research Assistant, Idaho State University, Pocatello, ID
1986 – 1990	Biology Instructor, Hurst-Euless-Bedford Independent School District, TX

Selected Scientific Consulting and Professional Projects

Environmental Impact and Technical Review (2026). Conducted expert scientific review and substantive revision of a comparative environmental report concerning data-center, warehouse, and manufacturing development in Pennsylvania; evaluated water demand, energy use, greenhouse-gas emissions, noise, land-use alternatives, fiscal assumptions, and state and regional environmental requirements.

Underwater Research and Education Initiative (2026–present). Developed a strategic assessment and implementation roadmap to transform an eight-year underwater video and acoustic archive into a research, education, conservation, and technology platform; work includes mission and program development, partnership strategy, funding pathways, outreach planning, website language, presentation materials, and grant-package development.

Scientific Manuscript Development and Editing (2026). Provided substantive and developmental editing for interdisciplinary research manuscripts, including psychology studies of social cognition and visual processing; reorganized discussion sections around principal findings, strengthened links between results and interpretation, and preserved disciplinary voice and citations.

Scientific Reviewer, Journal of Visualized Experiments (JoVE) (2026). Reviewed laboratory-animal and life-sciences educational materials addressing humane endpoints, the 3Rs, New Approach Methodologies, organ-on-chip systems, transport and acclimatization, anesthesia, euthanasia, and welfare monitoring; evaluated scientific accuracy, visual content, terminology, and adherence to reviewer guidelines.

Biology Subject-Matter Expert and AI Research Evaluator (2026–present). Develop and evaluate advanced biology prompts, assess model reasoning and factual accuracy, and provide expert feedback on ecology, conservation biology, invasive species, experimental design, and broader biological sciences.

Grant Strategy and Funding Development (2026–present). Develop funding landscapes, prospect pipelines, grant strategies, partnership plans, positioning language, budget frameworks, and proposal materials for nonprofit, research, and technology initiatives.

Areas of Expertise

- Animal ecology, conservation biology, invasive-species biology, and physiological ecology
- Amphibian and reptile biology, especially snake ecology, conservation, and management

- Environmental-impact analysis and technical review
- Scientific and technical writing, evidence synthesis, and research communication
- Developmental and substantive manuscript editing
- Grant strategy, proposal development, and funding prospect research
- Research design, methodology, peer review, and laboratory-animal welfare
- Biological subject-matter expertise and artificial intelligence response evaluation

Theses

Dorcas, M.E. 1995. Testing the coadaptation hypothesis: the thermoregulatory behavior and thermal physiology of the rubber boa (*Charina bottae*). Ph.D. Dissertation, Idaho State University.

Dorcas, M.E. 1990. Relationships among montane populations of *Crotalus lepidus* and *Crotalus triseriatus*. M.S. Thesis, The University of Texas at Arlington.

Scholarly Publications

Books (8)

Gibbons, W. and M. Dorcas. 2015. Snakes of the Southeast - Revised Edition. University of Georgia Press, Athens, GA. [link](#)

Dorcas, M.E. and J.D. Willson. 2011. Invasive Pythons in the United States: Ecology of an Introduced Predator. University of Georgia Press, Athens, GA. [link](#)

Dorcas, M. and W. Gibbons. 2011. Frogs: The Animal Answer Guide. Johns Hopkins University Press, Baltimore, MD. [link](#)

Dorcas, M. and W. Gibbons. 2008. Frogs and Toads of the Southeast. University of Georgia Press, Athens, GA. [link](#)

Dorcas, M.E., S.J. Price, J.C. Beane, and S. S. Cross. 2007. The Frogs and Toads of North Carolina. North Carolina Wildlife Resources Commission, Raleigh, NC. [link](#)

Gibbons, W. and M. Dorcas. 2005. Snakes of the Southeast. University of Georgia Press, Athens, GA. [link](#)

Dorcas, M.E. 2004. A Guide to the Snakes of North Carolina. Davidson College Herpetology Laboratory. Davidson, NC. [link](#)

Gibbons, J.W. and M.E. Dorcas. 2004. North American Watersnakes: A Natural History. University of Oklahoma Press, Norman, OK. [link](#)

Book Chapters (25) (* denotes student coauthor)

Dorcas, M.E., S.E. Pittman, and J.D. Willson. 2018. Burmese pythons. *In*: W. Pitt, J. Beasley, and G. Witmer (eds.), Ecology and Management of Terrestrial Vertebrate Invasive Species in the United States. Taylor & Francis Books, Oxford, England. [link](#)

Price, S.J., J.W. Snodgrass, and M.E. Dorcas. 2014. Managing aquatic environments for wildlife in urban areas. *In*: R. McCleery, C. Moorman, and N. Peterson (eds.), Urban Wildlife Conservation: Theory and Practice. Springer, NY. [link](#)

Willson, J.D. and M.E. Dorcas. 2014. Effects of invasive Burmese pythons in Everglades National Park. *In*: McGraw Hill Science and Technology Yearbook pp. 101-104. [link](#)

Dorcas, M.E. and C.R. Peterson. 2013. Automated data acquisition. *In*: G. Graeter and J. Gibbons (eds.), Monitoring Methods for Amphibians and Reptiles. Partners in Amphibian and Reptile Conservation Special Publication. [link](#)

- Dorcas, M.E. and J.D. Willson. 2013. Hidden giants: problems associated with studying secretive invasive pythons. *In*: W. Lutterschmidt (ed.), *Reptiles in Research: Investigations of Ecology, Physiology, and Behavior from Desert to Sea*. Nova Science Publishers, Inc., Hauppauge, NY. [link](#)
- Dorcas, M.E. and J.W. Gibbons. 2013. Long-term ecological research on America's only estuarine turtle: the diamondback terrapin. *In*: W. Lutterschmidt (ed.), *Reptiles in Research: Investigations of Ecology, Physiology, and Behavior from Desert to Sea*. Nova Science Publishers, Inc., Hauppauge, NY. [link](#)
- Dorcas, M.E. and C.R. Peterson. 2011. Automated data acquisition. *In*: R. McDiarmid, M. Foster, C. Guyer, J. Gibbons, and N. Chernoff (eds.), *Reptile Biodiversity - Standard Methods for Inventory and Monitoring*. University of California Press, Los Angeles, CA. [link](#)
- Dorcas, M.E., S.J. Price, S.C. Walls, and W.J. Barichivich. 2010. Auditory monitoring of anuran populations. *In*: K. Dodd (ed.), *Conservation and Ecology of Amphibians*. Oxford University Press, Oxford, UK. [link](#)
- Dorcas, M.E. and J.D. Willson. 2009. Innovative methods for studies of snake ecology and conservation. *In*: S. Mullin and R. Siegel (eds.), *Snakes: Applied Ecology and Conservation*. Cornell University Press, Ithaca, NY. [link](#)
- Dorcas, M.E. 2008. Amphibians and reptiles: Conservation of our natural heritage. *In*: *Science in North Carolina: How Science Helps Our State*. North Carolina Academy of Science, Raleigh, NC. [link](#)
- Dorcas, M.E. 2008. Northern watersnake (*Nerodia sipedon*). *In*: J. Jensen, C. Camp, W. Gibbons, and M. Elliott (eds.), *Amphibians and Reptiles of Georgia*. University of Georgia Press. Athens, GA. [link](#)
- Dorcas, M.E. and J.W. Gibbons. 2008. Cottonmouth (*Agkistrodon piscivorus*). *In*: J. Jensen, C. Camp, W. Gibbons, and M. Elliott (eds.), *Amphibians and Reptiles of Georgia*. University of Georgia Press. Athens, GA. [link](#)
- Dorcas, M.E. and J.W. Gibbons. 2008. Glossy crayfish snake (*Regina rigida*). *In*: J. Jensen, C. Camp, W. Gibbons, and M. Elliott (eds.), *Amphibians and Reptiles of Georgia*. University of Georgia Press. Athens, GA. [link](#)
- Dorcas, M.E. and J.W. Gibbons. 2008. Queen snake (*Regina septemvittata*). *In*: J. Jensen, C. Camp, W. Gibbons, and M. Elliott (eds.), *Amphibians and Reptiles of Georgia*. University of Georgia Press. Athens, GA. [link](#)
- Dorcas, M.E. and S.J. Price. 2008. Effective undergraduate-based herpetological research in an urban environment. *In*: R.E. Jung and J.C. Mitchell (eds.), *Urban Herpetology. Herpetological Conservation Vol. 3*. Society for the Study of Amphibians and Reptiles, Salt Lake City, UT. [link](#)
- Harden, L.A. and M.E. Dorcas. 2008. Using thermal biology to investigate habitat use and activity of eastern mud turtles (*Kinosternon subrubrum subrubrum*) on a golf course. *In*: R.E. Jung and J.C. Mitchell (eds.), *Urban Herpetology. Herpetological Conservation Vol. 3*. Society for the Study of Amphibians and Reptiles, Salt Lake City, UT. [link](#)
- Hester, J.M., S.A. Budischak, and M.E. Dorcas. 2008. The Davidson College box turtle mark-recapture program: urban herpetological research made possible by citizen scientists. *In*: R.E. Jung and J.C. Mitchell (eds.), *Urban Herpetology. Herpetological Conservation Vol. 3*. Society for the Study of Amphibians and Reptiles, Salt Lake City, UT. [link](#)
- Jensen, J.B., M.E. Dorcas, and J.W. Gibbons. 2008. Striped crayfish snake (*Regina alleni*). *In*: J. Jensen, C. Camp, W. Gibbons, and M. Elliott (eds.), *Amphibians and Reptiles of Georgia*. University of Georgia Press. Athens, GA. [link](#)

- Dorcas, M.E. and C.R. Peterson. 2007. Testing the coadaptation hypothesis: the thermal physiology and thermoregulatory behavior of rubber boas (*Charina bottae*). *In*: R. Henderson, R. Powell, G. Schuett, and M. Douglass (eds.), *Biology of the Boas and Pythons*. Eagle Mountain Publishing, LLC, Eagle Mountain, UT. [link](#)
- Wigley, T.B., W.M. Baughman, M.E. Dorcas, J.A. Gerwin, J.W. Gibbons, D.C. Guynn, R.A. Lancia, Y.A. Leiden, M.S. Mitchell, and K.R. Russell. 2000. Contributions of intensively managed forests to the sustainability of wildlife communities in the South. *In*: *Sustaining Southern Forests: The Science of Forest Assessment*. Southern Forest Resource Assessment. [link](#)
- Dorcas, M.E. 1998. Snake biodiversity in South Carolina and Georgia. *In*: *Snakes of South Carolina and Georgia*. SREL Herp Outreach Publication, Aiken, SC. [link](#)
- Peterson, C.R. and M.E. Dorcas. 1994. Automated data acquisition. *In*: W.R. Heyer, R.W. McDiarmid, M. Donnelly, and L. Hayek, (eds.), *Measuring and Monitoring Biological Diversity - Standard Methods for Amphibians*. Smithsonian Institution Press, Washington, DC. [link](#)
- Peterson, C.R., A.R. Gibson, and M.E. Dorcas. 1993. Snake thermal ecology: the causes and consequences of body temperature variation. *In*: R.A. Seigel and J.T. Collins, (eds.), *Snakes: Ecology and Behavior*. McGraw-Hill Publishing Company, New York, N.Y. [link](#)
- Dorcas, M.E. 1992. Relationships among montane populations of *Crotalus lepidus* and *Crotalus triseriatus*. *In*: J.A. Campbell and E.D. Brodie, Jr., (eds.), *Biology of the Pitvipers*. Selva Publications, Tyler, TX. [link](#)
- Peterson, C.R. and M.E. Dorcas. 1992. The use of automated data acquisition techniques in monitoring amphibian and reptile populations. *In*: D.R. McCullough and R.A. Barrett, (eds.), *Wildlife 2001: Populations*. Elsevier Applied Science, London. [link](#)

Peer-Reviewed Journal Publications (118) (* denotes student coauthor)

2016

- *Greene, K.M., S.E. Pittman, and M.E. Dorcas. 2016. The effects of conspecifics on burrow selection in juvenile spotted salamanders (*Ambystoma maculatum*). *Journal of Ethology*. [link](#)
- *Strickland, J.C., *A.P. Pinheiro, K.K. Cecala, M.E. Dorcas. 2016. Relationship between behavioral thermoregulation and physiological function in larval stream salamanders. *Journal of Herpetology* 50:239-244. [link](#)
- Todd, B.D., J.P. Rose, S.J. Price, and M.E. Dorcas. 2016. Using citizen science data to identify the sensitivity of species to human land use. *Conservation Biology* 30:1266-1276. [link](#)

2015

- *Kern, M.M., J.C. Guzy, J.E. Lovich, J.W. Gibbons, and M.E. Dorcas. 2015. Relationships of maternal body size and morphology with egg and clutch size in the diamondback terrapin, *Malaclemys terrapin* (Testudines: Emydidae). *Biological Journal of the Linnean Society* 117:295-304. [link](#)
- *McKee, R.K., K.K. Cecala, and M.E. Dorcas. 2015. Behavioural interactions of diamondback terrapins with crab pots demonstrate that bycatch reduction devices reduce entrapment. *Aquatic Conservation: Marine and Freshwater Ecosystems*. [link](#)
- Hart, K.M., M.S. Cherkiss, B.J. Smith, F.J. Mazzotti, I. Fujisaki, R.W. Snow, and M.E. Dorcas. 2015. Home range, habitat use, and movement patterns of non-native Burmese pythons in Everglades National Park, Florida, USA. *Animal Biotelemetry* 3. [link](#)
- Cecala, K.K., S.J. Price, M.E. Dorcas. 2015. Stream salamanders accurately assess size-dependent predation threats. *Herpetologica* 71:184-189. [link](#)

*Chase, F.W., *B.E. Hardie, M.M. Kern, S.E. Pittman, L.A. Harden, and M.E. Dorcas. 2015. Evaluation of two individual identification techniques for spotted salamanders (*Ambystoma maculatum*). *Herpetological Review* 46:192-196. [link](#)

Murphy, M.O., M. Agha, T.A. Maigret, S.J. Price, and M.E. Dorcas. 2015. The effects of urbanization on body size of larval stream salamanders. *Urban Ecosystems*. [link](#)

2014

*Akins, C.D., *C.D. Ruder, S.J. Price, L.A. Harden, J.W. Gibbons, and M.E. Dorcas. 2014. Factors affecting temperature variation and habitat use in free-ranging diamondback terrapins. *Journal of Thermal Biology* 44:63-69. [link](#)

Bryson, R.W., Jr., C.W. Linkem, M.E. Dorcas, A. Lathrop, J.M. Jones, J. Alvarado-Diaz, C.I. Grunwald, and R.W. Murphy. 2014. Multilocus species delimitation in the *Crotalus triseriatus* species group (Serpentes: Viperidae: Crotalinae), with the description of two new species. *Zootaxa* 3826:475-496. [link](#)

Currinder, B., K.K. Cecala, R.M. Northington, and M.E. Dorcas. 2014. Response of stream salamanders to experimental drought in the Southern Appalachian Mountains, USA. *Journal of Freshwater Ecology* 29:579-587. [link](#)

*DeGregorio, B.A., J.D. Willson, M.E. Dorcas, and J.W. Gibbons. 2014. Commercial value of amphibians produced from an isolated wetland. *American Midland Naturalist* 172:200-204. [link](#)

Gibbons, J.W. and M.E. Dorcas. 2014. What is a herpetologist and how can I become one? *Journal of North American Herpetology* 2014:1-2. [link](#)

Guzy, J.C., S.J. Price, and M.E. Dorcas. 2014. Using multiple methods to assess detection probabilities of riparian-zone anurans: implications for monitoring. *Wildlife Research* 41:243-257. [link](#)

*Muncy, B.L., S.J. Price, and M.E. Dorcas. 2014. Capture probability and survivorship of the stream salamander, *Eurycea cirrigera*, in drought and non-drought conditions. *Copeia* 2014:366-371. [link](#)

Pittman, S.E., K.M. Hart, M.S. Cherkiss, R.W. Snow, I. Fujisaki, B.J. Smith, F.J. Mazzotti, and M.E. Dorcas. 2014. Homing of invasive Burmese pythons in South Florida: evidence for map and compass senses in snakes. *Biology Letters* 10:1-4. [link](#)

*Strickland, L.C., *C.H. Bahram, L.A. Harden, S.E. Pittman, M.M. Kern, M.E. Dorcas. 2014. Life-history costs of reproductive behaviors in a wetland-breeding amphibian. *Journal of Freshwater Ecology* 1-11. [link](#)

*Witczak, L.R., J.C. Guzy, S.J. Price, J.W. Gibbons, and M.E. Dorcas. 2014. Temporal and spatial variation in survivorship of diamondback terrapins (*Malaclemys terrapin*). *Chelonian Conservation and Biology* 13:146-151. [link](#)

Willson, J.D., R.W. Snow, R.R. Reed, and M.E. Dorcas. 2014. *Python molurus bivittatus* (Burmese Python) - minimum size at maturity. *Herpetological Review* 45:343-344. [link](#)

2013

Böhm, M., ... M.E. Dorcas, et al. 2013. The conservation status of the world's reptiles. *Biological Conservation* 157:372-385. [link](#)

*Hunt, S.D., J.C. Guzy, S.J. Price, B.L. Halstead, E.A. Eskew, and M.E. Dorcas. 2013. Responses of riparian reptile communities to damming and urbanization. *Biological Conservation* 157:277-284. [link](#)

Cecala, K.K., S.J. Price and M.E. Dorcas. 2013. Modeling the effects of life-history traits on estimation of population parameters for a cryptic stream species. *Freshwater Science* 32:116-125. [link](#)

Guzy, J.C., S.J. Price, and M.E. Dorcas. 2013. The spatial configuration of greenspace affects semi-aquatic turtle occupancy and species richness in a suburban landscape. *Landscape and Urban Planning* 117:46-56. [link](#)

*Kern, M.A., A.A. Nassar, J.C. Guzy, and M.E. Dorcas. 2013. Oviposition site selection by spotted salamanders (*Ambystoma maculatum*) in an isolated wetland. *Journal of Herpetology* 47:445-449. [link](#)

Price, S.J., J.C. Guzy, *L.R. Witzack, and M.E. Dorcas. 2013. Do ponds on golf courses provide suitable habitat for wetland-dependent animals in suburban areas? An assessment of turtle abundances. *Journal of Herpetology* 47:243-250. [link](#)

Richter, S.C., S.J. Price, *C.S. Kross, *J.R. Alexander, and M.E. Dorcas. 2013. Upland habitat quality and historic landscape composition influence genetic variation of a pond-breeding salamander. *Diversity* 5:724-733. [link](#)

*Underwood, E.B., *S. Bowers, J.C. Guzy, J.E. Lovich, C.A. Taylor, J.W. Gibbons, and M.E. Dorcas. 2013. Sexual dimorphism and feeding ecology of diamond-backed terrapins (*Malaclemys terrapin*). *Herpetologica* 69:397-404. [link](#)

2012

Dorcas, M.E., J.D. Willson, R.N. Reed, R.W. Snow, M.R. Rochford, *M.A. Miller, W.E. Meshaka, Jr., P.T. Andreadis, F.J. Mazzotti, C.M. Romagosa, and K.M. Hart. 2012. Severe mammal declines coincide with proliferation of invasive Burmese pythons in Everglades National Park. *Proceedings of the National Academy of Sciences* 109:2418-2422. [link](#)

*Eskew, E.A., S.J. Price, and M.E. Dorcas. 2012. Effects of river flow regulation on anuran occupancy and abundance in riparian zones. *Conservation Biology* 26:504-512. [link](#)

*Foley, S.M., S.J. Price and M.E. Dorcas. 2012. Nest-site selection and nest depredation of semiaquatic turtles on golf courses. *Urban Ecosystems* 19:489-497. [link](#)

*Kern, M.M., J.C. Guzy, S.J. Price, *S.D. Hunt, *E.A. Eskew, and M.E. Dorcas. 2012. Riparian zone amphibians and reptiles within the Broad River basin, South Carolina. *Journal of North Carolina Academy of Science* 128:81-87. [link](#)

Price, S.J., R.A. Browne, and M.E. Dorcas. 2012. Evaluating the effects of urbanization on salamander abundances using a before-after control-impact design. *Freshwater Biology* 57:193-203. [link](#)

Price, S.J., R.A. Browne, and M.E. Dorcas. 2012. Resistance and resilience of a stream salamander to suprasedonal drought. *Herpetologica* 68:312-323. [link](#)

Reed, R.N., J.D. Willson, G.H. Rodda, and M.E. Dorcas. 2012. Ecological correlates of invasion impact for Burmese pythons in Florida. *Integrative Zoology* 7:254-270. [link](#)

2011

*Connette, G.M., S.J. Price, and M.E. Dorcas. 2011. Influence of abiotic factors on activity in a larval stream salamander assemblage. *Southeastern Naturalist* 10:109-120. [link](#)

Dorcas, M.E., J.D. Willson, J.W. Gibbons. 2011. Can invasive Burmese pythons inhabit temperate regions of the southeastern United States? *Biological Invasions* 13:793-802. [link](#)

*Grosse, A.M., J.C. Maerz, L.A. Hempinstall-Cymerman, and M.E. Dorcas. 2011. Effects of roads and crabbing pressures on diamondback terrapin populations in coastal Georgia. *Journal of Wildlife Management* 75:762-770. [link](#)

Mazzotti, F.J., M.S. Cherkiss, K.M. Hart, R.W. Snow, M.R. Rochford, M.E. Dorcas, and R.N. Reed. 2011. Cold-induced mortality of invasive Burmese pythons in South Florida. *Biological Invasions* 13:143-151. [link](#)

- *Pittman, S.E., T.L. King, S. Faurby and M.E. Dorcas. 2011. Demographic and genetic status of an isolated population of bog turtles (*Glyptemys muhlenbergii*): Implications for managing small populations of long-lived animals. *Conservation Genetics* 12:1589-1601. [link](#)
- Price, S.J., *E.A. Eskew, *K.K. Cecala, R.A. Browne, and M.E. Dorcas. 2011. Estimating survival of a streamside salamander: importance of temporary emigration, capture response, and location. *Hydrobiologia* 679:205-215. [link](#)
- Price, S.J., *K.K. Cecala, R.A. Browne, and M.E. Dorcas. 2011. Effects of urbanization on occupancy of stream salamanders. *Conservation Biology* 29:547-555. [link](#)
- Price, S.J. and M.E. Dorcas. 2011. The Carolina Herp Atlas: an online, citizen-science approach to document amphibian and reptile occurrences. *Herpetological Conservation and Biology* 6:287-296. [link](#)
- Willson, J.D., M.E. Dorcas, and R.W. Snow. 2011. Identifying plausible scenarios for the establishment of invasive Burmese pythons (*Python molurus*) in southern Florida. *Biological Invasions* 13:1498-1504. [link](#)

2010

- *Birx-Raybuck, D., S.J. Price, and M.E. Dorcas. 2010. Pond age and riparian zone proximity influence anuran occupancy of urban retention ponds. *Urban Ecosystems* 13:181-190. [link](#)
- *Cecala, K.K., S.J. Price, and M.E. Dorcas. 2010. Ecology of juvenile northern watersnakes (*Nerodia sipedon*) inhabiting low-order streams. *Amphibia-Reptilia* 31:169-174. [link](#)
- Dorcas, M.E., A.M. Domske, and G.E. Vaughan. 2010. A herpetofaunal inventory of Lake Keowee and Lake Jocassee, South Carolina. *Journal of the North Carolina Academy of Sciences* 126:88-97. [link](#)
- *Eskew, E.A., S.J. Price, and M.E. Dorcas. 2010. Survival and recruitment of semi-aquatic turtles in an urbanized region. *Urban Ecosystems* 13:365-374. [link](#)
- *Eskew, E.A., S.J. Price, and M.E. Dorcas. 2010. Survivorship of painted turtles (*Chrysemys picta*) in recently modified suburban landscapes. *Chelonian Conservation and Biology* 9:244-249. [link](#)
- *Steelman, C.K. and M.E. Dorcas. 2010. Anuran calling survey optimization: developing and testing predictive models of anuran calling activity. *Journal of Herpetology* 44:61-68. [link](#)

2009

- *Cecala, K.K., J.W. Gibbons, and M.E. Dorcas. 2009. Ecological effects of major injuries in diamondback terrapins: Implications for conservation and management. *Aquatic Conservation: Marine and Freshwater Ecosystems* 19:421-427. [link](#)
- *Cecala, K.K., S.J. Price, and M.E. Dorcas. 2009. Evaluating existing movement hypotheses in linear systems using larval stream salamanders. *Canadian Journal of Zoology* 87:292-298. [link](#)
- *Harden, L.A., S.E. Pittman, J.W. Gibbons, and M.E. Dorcas. 2009. Development of a rapid assessment technique for diamondback terrapin (*Malaclemys terrapin*) populations using head-count surveys. *Applied Herpetology* 6:237-245. [link](#)
- *Harden, L.A., S.J. Price, and M.E. Dorcas. 2009. Terrestrial activity and habitat selection of eastern mud turtles (*Kinosternon subrubrum*) in a fragmented landscape: Implications for habitat management of golf courses and other suburban environments. *Copeia* 2009:78-84. [link](#)
- *Pittman, S.E. and M.E. Dorcas. 2009. Movements, habitat use, and thermal ecology of an isolated population of bog turtles (*Glyptemys muhlenbergii*). *Copeia* 2009:781-790. [link](#)

- *Witczak L.R. and M.E. Dorcas. 2009. What are frogs and snakes worth? The economic value of reptiles and amphibians inhabiting the Charlotte-Metropolitan area of North Carolina. *Journal of the North Carolina Academy of Science* 125:131-137. [link](#)

2008

- *Eskew, E.A., S.J. Price, and M.E. Dorcas. 2008. New distributional records for reptiles and amphibians from the Charlotte-metropolitan area of the western Piedmont of North Carolina. *Herpetological Review* 39:245-246. [link](#)
- *Hester, J.M., S.J. Price, and M.E. Dorcas. 2008. Effects of relocation on movements and home ranges of eastern box turtles. *Journal of Wildlife Management* 72:772-777. [link](#)
- *Pittman, S.E., A.L. Jendrek, S.J. Price, and M.E. Dorcas. 2008. Habitat selection and site fidelity of Cope's Gray Treefrog (*Hyla chrysoscelis*) at the aquatic-terrestrial ecotone. *Journal of Herpetology* 42:378-385. [link](#)
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- *Cecala, K.K., S.J. Price, and M.E. Dorcas. 2007. A comparison of the effectiveness of recommended doses of MS-222 (tricaine methanesulfonate) and Orajel (benzocaine) for amphibian anesthesia. *Herpetological Review* 38:63-66. [link](#)
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- *Harden, L.A., N.A. DiLuzio, J.W. Gibbons, and M.E. Dorcas. 2007. Spatial and thermal ecology of diamondback terrapins (*Malaclemys terrapin*) in a South Carolina salt marsh. *Journal of the North Carolina Academy of Science* 123:154-162. [link](#)
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- *Gooch, M.M., M. Heupel, S.J. Price, and M.E. Dorcas. 2006. The effects of survey protocol on detection probabilities and site occupancy estimates of summer breeding anurans. *Applied Herpetology* 3:129-142. [link](#)
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- Price, S.J., M.E. Dorcas, A.L. Gallant, R.W. Klaver, and *J.D. Willson. 2006. Three decades of urbanization: Estimating the impact of land cover change on stream salamander populations. *Biological Conservation* 133:436-441. [link](#)
- *Rice, A.N., *T.L. Roberts, IV, and M.E. Dorcas. 2006. Heating and cooling rates of eastern diamondback rattlesnakes, *Crotalus adamanteus*. *Journal of Thermal Biology* 31:501-505. [link](#)
- *Waldron, J.L., S.H. Bennett, S.M. Welch, M.E. Dorcas, J.D. Lanham, and W. Kalinowsky. 2006. Habitat specificity and home-range size as attributes of species vulnerability to extinction: a case study using sympatric rattlesnakes. *Animal Conservation* 9:414-420. [link](#)
- *Willson, J.D., C.T. Winne, M.E. Dorcas, and J.W. Gibbons. 2006. Post-drought responses of semi-aquatic snakes inhabiting an isolated wetland: Insights on different strategies for persistence in a dynamic habitat. *Wetlands* 26:1071-1078. [link](#)

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- *Grayson, K.L., *L.W. Cook, *M.J. Todd, *D. Pierce, W.A. Hopkins, R.E. Gatten, Jr., and M.E. Dorcas. 2005. Effects of prey type on specific dynamic action, growth, and mass conversion efficiencies in the horned frog, *Ceratophrys cranwelli*. *Comparative Biochemistry and Physiology A* 141:298-304. [link](#)
- *Tuberville, T.D., *J.D. Willson, M.E. Dorcas, and J.W. Gibbons. 2005. Herpetofaunal species richness of southeastern national parks. *Southeastern Naturalist* 4:537-569. [link](#)
- *Winne, C.T., M.E. Dorcas, and S.M. Poppy. 2005. Population structure, body size, and seasonal activity of black swamp snakes (*Seminatrix pygaea*). *Southeastern Naturalist* 4:1-14. [link](#)

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Dorcas, M.E., W.A. Hopkins, and J.H. Roe. 2004. Effects of body mass and temperature on standard metabolic rate in the eastern diamondback rattlesnake (*Crotalus adamanteus*). *Copeia* 2004:145-151. [link](#)

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Dorcas, M.E., S.M. Poppy, C.H. Ernst, and J.W. Gibbons. 2003. The striped crayfish snake (*Regina alleni*). *SSAR Catalogue of American Amphibians and Reptiles* 778.1-778.4. [link](#)

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Ernst, C.H., J.W. Gibbons, and M.E. Dorcas. 2002. *Regina* Baird and Girard (crayfish snakes). *Catalogue of American Amphibians and Reptiles* 756.1-756.4. [link](#)

Gibbons, J.W. and M.E. Dorcas. 2002. Defensive behavior of cottonmouths (*Agkistrodon piscivorus*) towards humans. *Copeia* 2002:195-198. [link](#)

Ryan, T.J., T. Philippi, Y.A. Leiden, M.E. Dorcas, T.B. Wigley, and J.W. Gibbons. 2002. Monitoring herpetofauna in a managed forest landscape: Effects of habitat types and census techniques. *Forest Ecology and Management* 167:183-190. [link](#)

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Beane J.C., D.S. Dombrowski, D.W. Herman, J.P. Cecil, M.E. Dorcas, and S.D. Lindsay. 2001. Geographic distribution. *Plethodon wehrlei*. *Herpetological Review* 32:189. [link](#)

*Lindsay, S.D. and M.E. Dorcas. 2001. The effects of cattle on the morphology and reproduction of pond-dwelling turtles. *Journal of the Elisha Mitchell Scientific Society* 117:249-257. [link](#)

*Rice, A.N., *T.L. Roberts, J.G. Pritchard, and M.E. Dorcas. 2001. Historical trends and perceptions of amphibian and reptile diversity in the western Piedmont of North Carolina. *Journal of the Elisha Mitchell Scientific Society* 117:264-273. [link](#)

*Stroupe, D.A., and M.E. Dorcas. 2001. The apparent persistence of *Crotalus horridus* in the western Piedmont of North Carolina. *Herpetological Review* 32:287-288. [link](#)

Tuberville, T.D., and M.E. Dorcas. 2001. Winter survey of a gopher tortoise population in South Carolina. *Chelonian Conservation and Biology* 4:182-186. [link](#)

*Winne, C.T., *T. J. Ryan, Y. Leiden, and M.E. Dorcas. 2001. Evaporative water loss in two natricine snakes, *Nerodia fasciata* and *Seminatrix pygaea*. *Journal of Herpetology* 35:129-133. [link](#)

2000

- *Bridges, A.S. and M.E. Dorcas. 2000. Temporal variation in anuran calling behavior: Implications for surveys and monitoring programs. *Copeia* 2000:587-592. [link](#)
- *Mills, M.S., *S.M. Poppy, A.M. Mills, *T.J. Ryan, and M.E. Dorcas. 2000. *Seminatrix pygaea*. Diet. *Herpetological Review* 31:47. [link](#)
- *Roark, A.W., and M.E. Dorcas. 2000. Regional body temperature variation in corn snakes measured using temperature-sensitive passive integrated transponders. *Journal of Herpetology* 34:481-485. [link](#)

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- *Leiden, Y.A., M.E. Dorcas, and J.W. Gibbons. 1999. Herpetofaunal diversity in Coastal Plain communities of South Carolina. *Journal of the Elisha Mitchell Scientific Society* 115:270-280. [link](#)
- *Mohr, J.R. and M.E. Dorcas. 1999. A comparison of anuran calling patterns at two Carolina Bays in South Carolina. *Journal of the Elisha Mitchell Scientific Society* 115:63-70. [link](#)

1998

- Distler, J.K., M.E. Dorcas, J.W. Gibbons, K.L. Kendl, K. Russell. 1998. Winter mortality in the green anole, *Anolis carolinensis* (Lacertilia: Polychridae). *Brimleyana* 25:140-143. [link](#)
- Dorcas, M.E. and C.R. Peterson. 1998. Daily body temperature variation in free-ranging rubber boas. *Herpetologica* 54:88-103. [link](#)
- Dorcas, M.E., J.W. Gibbons, and H.G. Dowling. 1998. The black swamp snake (*Seminatrix pygaea*). *SSAR Catalogue of American Amphibians and Reptiles* 679.1-679.5. [link](#)

1997

- Dorcas, M.E. and C.R. Peterson. 1997. Head-body temperature differences in free-ranging rubber boas. *Journal of Herpetology* 31:87-93. [link](#)
- Dorcas, M.E., C.R. Peterson, and M.E.T. Flint. 1997. The thermal biology of digestion in rubber boas (*Charina bottae*): behavior, physiology, and environmental constraints. *Physiological Zoology* 70:292-300. [link](#)
- Gibbons, J.W., ... M.E. Dorcas, et al. 1997. Perceptions of species abundance, distribution, and diversity: lessons from four decades of sampling on a government-managed reserve. *Environmental Management* 21:259-268. [link](#)

1991

- Dorcas, M.E. and J.R. Mendelson III. 1991. Distributional notes on *Nerodia harteri harteri* in Parker and Palo Pinto counties, Texas. *Herpetological Review* 22:117-118. [link](#)

1990

- Dorcas, M.E. and J.R. Mendelson III. 1990. Geographic distribution, *Arizona elegans arenicolor*. *Herpetological Review* 21:23. [link](#)
- Dorcas, M.E., and J.R. Mendelson III. 1990. Geographic distribution. *Lampropeltis getulus holbrooki*. *Herpetological Review* 21:23. [link](#)
- Dorcas, M.E. 1990. Geographic distribution. *Masticophis flagellum flagellum*. *Herpetological Review* 21:23. [link](#)
- Dorcas, M.E. and M.B. Harvey. 1990. Geographic distribution, *Graptemys kohnii*. *Herpetological Review* 21:39. [link](#)

1989

McCord, J.S. and M.E. Dorcas. 1989. New Texas herpetological distribution records from the University of Texas at Arlington Collection of Vertebrates. *Herpetological Review* 20:94,96. [link](#)

Miscellaneous Publications (5)

Dorcas, M.E. 2008. A bullsnake. *Bulletin of the North Carolina Herpetological Society* 31:16. [link](#)

Harvey, R.G., M.L. Brien, M.S. Cherkiss, M.E. Dorcas, M. Rochford, R.W. Snow, and F.J. Mazzotti. 2008. Burmese pythons in South Florida: Scientific support for invasive species management. University of Florida IFAS Extension. [link](#)

Dorcas, M.E. 2005. Idaho's little boa constrictor. *Reptiles Magazine* 13:38-42. [link](#)

Gibbons J.W. and M.E. Dorcas. 1998. Cowards, bluffers, and warriors (the defensive behavior of free-ranging cottonmouths). *Natural History* 107:56-57.

Dorcas, M.E. 1997. Book Review: *Amphibians and Reptiles of New Mexico*. *Copeia* 1997:643-645. [link](#)

More Than 160 Presentations at Regional, National, and International Scientific Meetings

Invited Seminars

- Habitat and Wildlife Keepers, November 2015.
- Mecklenburg Audubon Society, October 2015.
- Schiele Museum, September 2015.
- North Carolina Herpetological Society, May 2015 (Keynote Speaker).
- North Carolina State University Herpetological Society, January 2015.
- School for Field Studies, Yungaburra, Queensland, December 2014.
- Middle Tennessee State University, October 2014.
- Naples Botanical Garden - Florida Gulf Coast University - Moonlight on the Marsh Distinguished Lecture Series, February 2014.
- University of Arkansas, February 2014.
- Clemson University, January 2014.
- National Park Service - Large Constrictor Technical Meeting, November 2013.
- North Carolina Herpetological Society, November 2013.
- U.S. Geological Survey Science Center, Flagstaff, AZ, July 2013.
- Washington College, April 2013.
- North Carolina Wildlife Federation, March 2013.
- North Carolina State Museum - Science Café, January 2013.
- Appalachian State University, November 2012.
- Wingate University, November 2012.
- University of North Carolina, October 2012.
- University of Central Florida, September 2012.
- North Carolina State Museum, February 2012.
- Annual Meeting of the Wildlife Society - Invasive Species Symposium, Kona, HI, November 2011.
- Eastern Kentucky University, September 2011.
- Auburn University, April 2011.
- College of Charleston, Charleston, SC, April 2011.
- University of North Carolina - Pembroke, March 2011.

- Biological Consequences of Global Change - 4th International Symposium of Integrative Zoology Kunming, China, December 2010.
- University of Virginia, Mountain Lake Biological Station, July 2010.
- United States Fish and Wildlife Service, Vero Beach, June 2010.
- Western Carolina University, April 2010.
- University of Georgia's Savannah River Ecology Laboratory, August 2009.
- Snake Ecologists Group - Fifth Annual Meeting, Donnelly, ID, July 2009.
- Annual Meeting of the Southeast Partners in Amphibian and Reptile Conservation, February 2009.
- Drexel University, January 2009.
- University of South Carolina Upstate, November 2008.
- University of Georgia, October 2008.
- University of North Carolina Wilmington, September 2008.
- Annual Meeting of the Association of Southeastern Biologists - Symposium on Undergraduate Research, April 2008.
- University of South Carolina Upstate - Symposium on Undergraduate Research, April 2008.
- Annual Meeting of the Southeastern Diamondback Terrapin Working Group, February 2008.
- North Carolina Chapter of the Wildlife Society, February 2008.
- Wake Forest University, September 2007.
- Northeast Partners in Amphibian and Reptile Conservation, Mountain Lake Biological Station, August 2007.
- School for Field Studies, Queensland, Australia, July 2007.
- University of North Carolina at Charlotte, November 2006.
- Annual Meeting of the Virginia Herpetological Society - Keynote Address, October 2006.
- Annual Meeting of the Virginia Herpetological Society, (with Kristen Cecala), October 2006.
- Powdermill Turtle Biology Meetings, Portal, Arizona, September 2006.
- Georgia Diamondback Terrapin Workshop, Jekyll Island, Georgia, March 2006.
- South Carolina Environmental Educators Association, Columbia, South Carolina, March 2006.
- Third Annual South Carolina Herpetology Conference, January 2006.
- Inaugural Meeting of the University of Georgia Herpetological Society, October 2005.
- Meeting of the ACE Basin National Estuarine Research Reserve, South Carolina, October 2005.
- Joint Annual Meeting of the Society for the Study of Amphibians and Reptiles, the Herpetologists' League, and the American Society of Ichthyologists and Herpetologists, Tampa, FL, July 2005.
- North Carolina State Museum of Natural Sciences, March 2005.
- Annual Meeting of the North Carolina Herpetological Society, Raleigh, NC, November 2004.
- Snake Ecologist Meeting IV, Marion, IL, May 2004.
- University of South Carolina at Lancaster, August 2003.
- University of South Carolina at Spartanburg, November 2002.
- Annual Meeting of the North Carolina Herpetological Society, May 2002.
- Appalachian State University, March 2001.
- Snake Ecology Meeting, Fayetteville, Arkansas, September 2000.
- Biology of the Vipers Symposium, Uppsala, Sweden.
- University of North Carolina at Greensboro, March 2000.
- Annual Meeting of the North Carolina Herpetological Society, April 1999.
- University of Alabama, April 1998.
- Auburn University, November 1997.
- Snake Ecology for the 21st Century - Annual Meeting of the Texas Herpetological Society, October 1997.

- Francis Marion University, Florence, SC, March 1997.
- Southeastern Louisiana University, October 1996.
- Francis Marion University, Florence, SC, June 1996.
- Savannah River Ecology Laboratory, May 1996.

Research Funding (84 Grants and Contracts; More Than \$2.2 Million)

- 2015 Duke Energy Water Resources Fund. Understanding connections among discharge, chemistry and ecology in first-order Piedmont streams - \$55,410 (Bradley Johnson and Christopher Paradise, CoPIs).
- 2015 Davidson College Faculty Research Grant. Evaluating the impact of by-catch reduction devices for reducing mortality of diamondback terrapins in crab traps - \$3,500.
- 2015 Kiawah Island Conservancy. Evaluation of Reproductive Output of Diamondback Terrapins at Kiawah Island, SC - \$1,500.
- 2015 United States Fish and Wildlife Service and Catawba Lands Conservancy. Telemetry of bog turtles at Friday Bog during restoration efforts - \$4,000.
- 2014 Riverbanks Zoo and Gardens Conservation Support Fund. Carolina Herp Atlas - \$4,220.
- 2014 United States Geological Survey - Quick Response Grant. Risk Analysis for Diamondback Terrapins on Wassaw, Blackbeard, Wolf, and Harris Neck National Wildlife Refuges - \$24,984.
- 2014 South Carolina Department of Natural Resources. Carolina Herp Atlas - \$5,000.
- 2014 United States Fish and Wildlife Service. Inventory of Eastern Diamondback Rattlesnakes in the ACE Basin and on Harris Neck, Blackbeard Island, Wassaw, and Wolf Island National Wildlife Refuges - \$56,479.
- 2014 Duke Energy Foundation. Davidson College Herpetology Outreach Program - \$5,300.
- 2014 North Carolina Wildlife Resources Commission. Testing the Utility of Environmental DNA (eDNA) for determining the presence of Bog Turtles (*Glyptemys muhlenbergii*) - \$9,981.
- 2014 United States Fish and Wildlife Service. Inventory of Diamondback Terrapins on Harris Neck, Blackbeard Island, Wassaw, and Wolf Island National Wildlife Refuges - \$14,456.
- 2014 Department of Defense - Legacy Program. Innovative Methods for Estimating Densities and Detection Probabilities of Secretive Reptiles Including Invasive Constrictors and Rare Upland Snakes - \$80,025.
- 2014 Davidson College Faculty Research Grant. Variation in body condition across small spatial scales: a study of the effects of land-use in diamondback terrapins - \$3,500.
- 2014 Town of Cornelius. Temporary Translocation of Semi-Aquatic Turtles at Robbins Park, Cornelius, North Carolina - \$252.
- 2013 Associated Colleges of the South - Resources for the ACS Sustainability Blended Learning Library; Biodiversity/Ecosystem Services. The problem of invasive pythons in the United States - \$1,700.
- 2013 Davidson College Faculty Research Grant. Implications of Small-scale Geographic Variation in Reproductive Allocation in Diamondback Terrapins - \$3,500.
- 2013 Williams-Transco. Monitoring the critically endangered population of bog turtles - \$99,000.
- 2012 Davidson College Faculty Research Grant. Foraging Ecology of Diamondback Terrapins and Their Role in Ecosystem Processes - \$3,500.

- 2012 National Science Foundation. Informal Science Education (subawardee) - \$3,200.
- 2011 Williams-Transco. Status of Bog Turtles in Gaston County - \$80,000.
- 2011 Duke Energy. Status of Amphibian Populations at the McGuire Nuclear Station - \$42,344.
- 2011 Davidson College Faculty Research Grant. Evaluation of factors affecting survivorship in diamondback terrapins - \$2,600.
- 2010 Broad River Trust. Amphibians and reptiles as integrative ecological indicators of anthropogenic disturbance in riparian wetland habitats of the Broad River, South Carolina - \$149,091 (CoPI Steven J. Price).
- 2009 National Fish and Wildlife Foundation - Wildlife Links Program. Golf Courses as Turtle Habitat in Urbanized Areas - \$59,950 (CoPI Steven J. Price).
- 2009 North Carolina Wildlife Resources Commission. Carolina Herp Atlas - \$4,886.
- 2009 Duke Energy. Herpetological Surveys of the W. S. Lee III Nuclear Station, Cherokee County, SC and Its Vicinity - \$27,413.
- 2009 Davidson College Faculty Research Grant. Juvenile recruitment of diamondback terrapins in a Carolina Salt Marsh - \$2,600.
- 2009 Duke Energy. Herpetological Surveys of the Proposed Railroad Site between Gaffney and the WS Lee III Nuclear Station, Cherokee County, SC and its Vicinity - \$26,413.
- 2008 Greenville Water System. Habitat Evaluation for Bog Turtles - \$7,169.
- 2008 University of Florida. Thermal Biology of Invasive Burmese Pythons in Everglades National Park - \$19,617.
- 2008 Davidson College Faculty Research Grant. The thermal biology of diamondback terrapins: implications for activity, habitat use, and conservation - \$2,600.
- 2008 Duke Energy. Herpetofaunal Surveys of London Creek, South Carolina - \$24,900.
- 2008 Duke Energy. Herpetofaunal Surveys of Lake Keowee and Lake Jocassee, South Carolina - \$28,300.
- 2008 Duke Energy Foundation. Herpetological Research and Education in the Catawba River Region - \$2,000.
- 2008 Associated Colleges of the South Faculty Development Grant. Unique opportunities for undergraduate research: Studies of invasive Burmese pythons in Everglades National Park - \$4,800.
- 2007 South Carolina Department of Natural Resources, Carolina Herp Atlas - \$17,074.
- 2007 Duke Energy. Herpetological Survey of the W. S. Lee III Nuclear Station, South Carolina: Potential Impacts of Operations on Semi-Aquatic Species - \$2,710.
- 2007 Duke Energy Foundation. Herpetological Research and Education in the Catawba River Region - \$2,500.
- 2007 North Carolina Wildlife Resources Commission. Ecology, Conservation, and Management of a Bog Turtle Population in the Western Piedmont of North Carolina - \$8,450 (Shannon E. Pittman, CoPI).
- 2007 Davidson College Faculty Research Grant. Causes and Effects of Limb Loss on Survivorship of Diamondback Terrapins - \$2,600.
- 2006 North Carolina Ecosystem Enhancement Program. Herpetological Inventory of Five-Mile Branch Associated with Stream Restoration - \$13,405.
- 2006 North Carolina Wildlife Resources Commission. Carolina Herp Atlas - \$17,000.

- 2006 Davidson College Faculty Research Grant. Conservation Research of Diamondback Terrapins in Barrier Island Saltmarsh Ecosystems - \$2,507.
- 2006 Duke Energy Foundation. Herpetological Research and Education in the Catawba River Region - \$1,500.
- 2005 Davidson College Faculty Research Grant. Effects of Urbanization on Genetic Variation in Amphibian Populations - \$2,600.
- 2005 Duke Energy. Herpetofaunal Surveys of Rare, Threatened, and Endangered Species of the Catawba-Wateree River System - \$21,800.
- 2005 Duke Energy Foundation. Herpetological Research and Education in the Catawba River Region - \$2,000.
- 2004 National Science Foundation - CAREER Grant. Effects of Urbanization on Amphibian and Reptile Populations. 5-year grant - \$612,761 - plus, REU Supplements 2004 - \$6,000; 2005 - \$6,000; 2006 - \$12,000; 2007 - \$12,000, 2008 - \$12,000, 2009 - \$7,000.
- 2004 Duke Energy. The Status of Amphibians and Reptiles of the Fishing Creek Bypass and Evaluation of Rare, Threatened, and Endangered Amphibians and Reptiles of the Catawba — Wateree Rivers - \$43,800.
- 2004 Duke Energy Foundation. Herpetological Research and Education in the Catawba River Region - \$1,500.
- 2004 Davidson College Faculty Study and Research Grant. Continued monitoring of the Herpetofauna of Tortuguero National Park, Costa Rica - \$2,600.
- 2003 Associated Colleges of the South. Teaching with Technology Fellowship: Floral and Faunal Identification Made Easy: A Novel Approach to an Old Problem - \$2,500.
- 2003 Duke Energy Foundation. Herpetological Outreach and Research - \$3,500.
- 2003 Davidson College Faculty Study and Research Grant. Herpetological Investigations of Tortuguero National Park, Costa Rica - \$2,500.
- 2003 Associated Colleges of the South. Campus-Community Partnership Grant: Vertebrate Inventory of the Brackett Preserve, Davidson, NC - \$3,500 (Mark Stanback, CoPI).
- 2002 National Science Foundation - Research Experiences for Undergraduates (NSF-REU). Developing Student Scientists: Collaborative Research in the Life Sciences at Davidson College - \$184,830 (Mark Stanback, CoPI) + \$63,271 supplement to Julio Ramirez, PI.
- 2002 National Park Service. Herpetofaunal surveys on five National Park Units in North and South Carolina. \$37,226 (Robert Reed and J. Whitfield Gibbons, CoPIs).
- 2002 Duke Energy Foundation. Support for the Davidson College Herpetology Program - \$5,100.
- 2002 National Park Service. (subcontract with University of Georgia's Savannah River Ecology Laboratory). Herpetological Inventories of the National Park Service Southeast Coastal Network - \$33,976.
- 2002 Davidson College Faculty Study and Research Grant. The Effects of Ecological Reorganization on Snake Populations in a Semidesert Grassland - \$2,500.
- 2002 Global Partners Project. Herpetological Research Opportunities in Kenya - \$2,400.
- 2002 Associated Colleges of the South - Campus-Community Partnership Grant. The Central Carolina Amphibian and Reptile Initiative: A Partnership between Davidson College and Local Government - \$200.
- 2001 Davidson College Faculty Study and Research Grant. Herpetological Biodiversity of the Ramah Creek Conservation Easement - \$2,999.

- 2001 Associated Colleges of the South - Teaching with Technology Fellowship, Techno-herpetology: Advanced Data Collection Techniques for Students Involved in Long-term Ecological Studies - \$2,500.
- 2000 National Science Foundation - CCLI-A&I Grant. Integrative Herpetology: Molecules, Muscles, and Migration - \$59,349 (over three years).
- 2000 Associated Colleges of the South: Teaching with Technology Fellowship: A Web-Based Tool for the Recognition of Anuran Vocalizations - \$2,500.
- 1999 Davidson College Faculty Study and Research Grant. Conservation of Davidson's Amphibians and Reptiles: Historical and Current Patterns - \$2,499.
- 1998 Idaho State University. Development and testing of an automated recording system for monitoring anurans and birds on the Savannah River Site - (Subcontract - original funding from USDA Forest Service - see below) \$19,369 (for one year).
- 1998 Davidson College Faculty Study and Research Grant. Rattlesnakes on golf courses: habitat requirements and human interactions - \$2,500.
- 1998 The Nature Conservancy of Georgia. A Study to Document the Species Diversity of Amphibians and Reptiles on Fort Gordon, Georgia - \$8,700 (J. Whitfield Gibbons, CoPI).
- 1997 USDA Forest Service Cooperative Research Grant. Effects of experimental manipulations of coarse woody debris on community structure, species richness, and relative abundances of small mammals, amphibians, and reptiles in loblolly pine stands on the Savannah River Site - \$86,126 (J. Laerm and T. S. McCay, CoPIs).
- 1996 International Paper Company, National Fish and Wildlife Foundation, and the National Audubon Society. Landscape level research on the Pee Dee River System in South Carolina: Herpetofauna and Management - \$262,000 (J. Whitfield Gibbons, CoPI).
- 1996 USDA Forest Service Cooperative Research Grant. Development and testing of an automated recording system for monitoring anurans and birds on the Savannah River Site - \$32,504 (Charles R. Peterson, CoPI).
- 1996 Savannah River National Environmental Research Park - Department of Energy. A large-scale experimental approach to determine the effects of coarse woody debris on the species richness and relative abundances of amphibians and reptiles on the Savannah River Site - \$15,800 (Justin D. Congdon, CoPI).
- 1995 Ontario Hydro Technologies. Testing and evaluating the automated wildlife surveyor - \$12,000.
- 1993 National Science Foundation. Doctoral Dissertation Research Grant: Testing the coadaptation hypothesis: the thermoregulatory behavior and thermal physiology of the rubber boa, a nocturnal snake - \$7,639 (C.R. Peterson, Sponsor).
- 1992 Sigma Xi Grant-in-Aid-of-Research. Testing the optimality concept: the thermoregulatory behavior and thermal physiology of the rubber boa - \$375.
- 1992 American Museum of Natural History. Theodore Roosevelt Memorial Fund: Testing the coadaptation hypothesis: the thermoregulatory behavior and thermal physiology of the rubber boa, a cold tolerant snake - \$700.
- 1992 Idaho State University. Graduate Student Research and Scholarship Committee: The physiological basis for head-body temperature differences in nocturnal snakes - \$507.
- 1991 Chicago Herpetological Society. Testing the coadaptation hypothesis: the thermal biology of the rubber boa, a cold tolerant snake - \$496.

- 1991 Sigma Xi Grant-in-Aid-of-Research. Testing the coadaptation hypothesis: the thermal biology of the rubber boa, a cold tolerant snake - \$350.
- 1991 American Museum of Natural History. Theodore Roosevelt Memorial Fund: Testing and applying the coadaptation hypothesis: the thermoregulatory behavior and thermal physiology of the rubber boa, a cold tolerant snake - \$662.
- 1991 Northwest Science Association. Testing the coadaptation hypothesis: the thermal biology of the rubber boa, a cold-tolerant snake - \$300.
- 1991 American Society of Ichthyologists and Herpetologists. Gaige Award: Testing the coadaptation hypothesis: the thermal biology of the rubber boa, a cold tolerant snake - \$250.

Honors and Awards

- 2014 Outstanding Mentor Award - Council for Undergraduate Research.
- 2014 Distinguished Lecturer - Naples Botanical Gardens—Florida Gulf Coast University Moonlight on the Marsh Distinguished Lecture Series, Naples, FL.
- 2012 Meritorious Teaching Award in Herpetology - Society for the Study of Amphibians and Reptiles, The Herpetologists' League, and the American Society of Ichthyologists and Herpetologists, Presented at the World Congress of Herpetology, Vancouver, BC.
- 2012 Senior Research Award - Association of Southeastern Biologists, Athens, GA.
- 2009 Elected as a Fellow to the American Association for the Advancement of Science
- 2008 North Carolina Earth Team Award (to Herpetology Lab) - presented by North Carolina Association of Soil and Water Conservation Districts.
- 2007 Senior Research Award - Association of Southeastern Biologists, Columbia, SC.
- 2005 First Place - National Outdoor Book Award for a Nature Guidebook. - Gibbons, J.W. and M.E. Dorcas. 2004, *Snakes of the Southeast*, University of Georgia Press, Athens, GA.
- 2004 Environmental Educator of the Year -Governor's Achievement Award - presented by the North Carolina Wildlife Federation.
- 2002 Presidential Leadership Award - School for Field Studies
- 1998 Eugene P. Odum Award for the Best Student Paper in Ecology - Bridges, Andrew and Michael E. Dorcas. Temporal Variation in Anuran Calling Behavior: Implications for Calling Surveys and Population Assessment. Annual Meeting of the Association of Southeastern Biologists, Monroe, LA.
- 1994 Best student paper - Body temperature variation in free-ranging rubber boas (*Charina bottae*). Annual Meeting of the Idaho Academy of Science, Pocatello, ID.
- 1992 Stoye Award for best student paper in physiological ecology - The effect of activity on body temperature variation in free-ranging rubber boas (*Charina bottae*). Joint Meeting of the American Society of Ichthyologists and Herpetologists and the Herpetologists' League, Urbana, IL.
- 1992 American Society of Ichthyologists and Herpetologists Student Travel Award.
- 1991 American Society of Zoologists Student Travel Award.

Editorial, Reviewing, and Professional Service

Editorial Appointments

- Associate Editor, *Herpetologica*, 2003–2004.
- Associate Editor, *Herpetological Review*, 2000–2003.
- Guest Editor, *Conservation Biology*, 2007.
- Guest Editor, *Southeastern Naturalist*, 2006.
- Editorial Board, *Journal of the North Carolina Academy of Sciences*, 2002–2008.

Journal Peer Review

- *American Naturalist*
- *Animal Conservation*
- *Applied Energy*
- *Applied Herpetology*
- *Biological Conservation*
- *Biological Invasions*
- *Biological Journal of the Linnaean Society*
- *Banisteria*
- *BioScience*
- *Brimleyana*
- *Chelonian Conservation and Biology*
- *Conservation Biology*
- *Copeia*
- *Ecography*
- *Ecology*
- *Ethology*
- *Functional Ecology*
- *Herpetologica*
- *Herpetological Conservation and Biology*
- *Herpetological Journal*
- *Herpetological Natural History*
- *Herpetological Review*
- *Journal for Nature Conservation*
- *Journal of the Arkansas Academy of Science*
- *Journal of Comparative Physiology*
- *Journal of the Elisha Mitchell Scientific Society*
- *Journal of Experimental Marine Biology and Ecology*
- *Journal of Fish and Wildlife Management*
- *Journal of Great Lakes Research*
- *Journal of Herpetology*
- *Journal of the North Carolina Academy of Science*
- *Journal of Thermal Biology*
- *Journal of Visualized Experiments (JoVE)*
- *Journal of Wildlife Management*
- *Journal of Zoology*
- *New Zealand Journal of Zoology*
- *Northeast Naturalist*
- *Oikos*
- *Physiological and Biochemical Zoology*

- *Proceedings of the National Academy of Sciences*
- *Renewable Bioresources*
- *Southeastern Naturalist*
- *Southwestern Naturalist*

Grant and Scientific Review

- National Science Foundation — grant reviewer and review-board member; Graduate Research Fellowship review panels, 2002–2007; Research Experiences for Undergraduates review panels, 2002–2003.
- U.S. Geological Survey — grant and manuscript reviewer.
- U.S. Army Engineer Research and Development Center — grant reviewer.
- Virginia Sea Grant — grant reviewer.
- National Park Service — scientific reviewer.
- International Union for Conservation of Nature (IUCN) — scientific reviewer.
- Florida Game and Fresh Water Fish Commission, Nongame Wildlife Program — grant-application reviewer, 1996–2000.

Professional Leadership and Service

- Executive Council, Herpetologists' League, 2015–2016.
- Diamondback Terrapin Working Group — Junior Co-Chair, 2010–2013; Senior Co-Chair, 2013–2016; organizer and host of the 6th Symposium on Diamondback Terrapin Biology, 2013.
- Brown Treesnake Technical Working Group, Research Committee, 2012–2016.
- Senior Research Award, Association of Southeastern Biologists — committee member, 2012–2015; chair, 2014 and 2016.
- Research Advisor, Project Bog Turtle, North Carolina Museum of Natural History, 2000–2016.
- North Carolina Scientific Council for Amphibians and Reptiles — member, 2004–2008; chair, 2009–2014.
- North Carolina Partners in Amphibian and Reptile Conservation (NCPARC) — Website Director, 2004–2012; Steering Committee, 2004–2009; chair, Research, Inventory, Management, and Monitoring Working Group, 2005–2009.
- Davidson Lands Conservancy — Board of Directors, 2000–2002; Advisory Board, 2002–2013.
- Board of Governors, American Society of Ichthyologists and Herpetologists, 2004–2010.
- Society for the Study of Amphibians and Reptiles — Education Committee, 2008–2011; Conservation Committee, 2000–2002; Grants-in-Herpetology Committee, 1999–2003.
- Steering Committee, Partners in Amphibian and Reptile Conservation (PARC), 2002–2005.
- Southeast Chapter, American Society of Ichthyologists and Herpetologists — Secretary/Treasurer, 2002–2003; Vice President, 2003–2004; President, 2004–2005.
- Director, Central Carolina Amphibian and Reptile Initiative (CARI), 2000–2008.
- Campus/Community Grants Program Committee, Associated Colleges of the South Environmental Program, 2005–2009.
- Chair, Student Travel Award Committee, Association of Southeastern Biologists, 1998–2000.
- Chair, Monitoring Protocols Working Group, Declining Amphibians Population Task Force, 1996–1999.
- Scientific consultant for the children's book *Florida's Burmese Pythons: Squeezing the Everglades* (Bearport Publishing), 2015.

Graduate and Research Advisory Committees

- M.S. Committee Member — Theresa Strattman, Clemson University, 2014–2015.
- Ph.D. Committee Member — Leigh Anne Harden, University of North Carolina Wilmington, 2008–2013.
- Ph.D. Committee Member — Theresa Walters, University of Florida, 2009–2011.
- M.S. Committee Member — Andrew Grosse, University of Georgia, 2006–2009.
- Ph.D. Committee Member — Ron Sutherland, Duke University, 2003–2009.
- Ph.D. Committee Member — J.D. Willson, University of Georgia, 2005–2008.
- Ph.D. Committee Member — Christopher Winne, University of Georgia, 2005–2008.
- Adjunct Faculty Member and Master's Thesis Committee Member — Stephen Richter, Southeastern Louisiana University, 1996–1998.

Conference, Award, and Meeting Service

- Symposium Organizer — Rethinking Normal: Moving from Theory to Action in the Face of Invasive Species and Global Change, World Congress of Herpetology, Vancouver, British Columbia, 2012.
- Judge, Eugene Odum Award, Association of Southeastern Biologists, Athens, Georgia, 2012.
- Session Moderator, Animal Ecology, Association of Southeastern Biologists, Spartanburg, South Carolina, 2008.
- Workshop Anchor, Physiological Ecology, Snake Ecologists Meeting IV, Marion, Illinois, 2004.
- Kennedy Award Judge, Society for the Study of Amphibians and Reptiles, 2002.
- Host, Annual Meeting of the North Carolina Herpetological Society, 2002.
- Student Paper Judge, Eugene P. Odum Award, Association of Southeastern Biologists, 2002 and 2005.
- Graduate Student Poster Judge, Joint Meeting of the American Society of Ichthyologists and Herpetologists, the Herpetologists' League, and the Society for the Study of Amphibians and Reptiles, La Paz, Mexico, 2000.
- Graduate Student Paper Judge, Association of Southeastern Biologists, Chattanooga, Tennessee, 2000.
- Session Chair, Amphibian and Reptile Physiology, Joint Meeting of the American Society of Ichthyologists and Herpetologists, the Herpetologists' League, and the Society for the Study of Amphibians and Reptiles, Seattle, Washington, 1997.

Courses Taught

- *Extreme Zoology* (FCI Fort Dix: 2024)
- *Ecological-based Conservation* (FCI Fort Dix: 2023)
- *Conservation and Ecology* (FCI Fort Dix: 2022)
- *Reptile Ecology* (FCI Fort Dix: 2022)
- *General Science* (FCI Fort Dix: 2021)
- *Animal Physiology* (Davidson College: 1998–2001, 2003–2008, 2010–2011, 2013, 2015)
- *Organisms, Evolution, and Ecosystems* (Davidson College: 1999–2002, 2004–2009, 2012, 2014)
- *Costa Rican Natural History and Herpetological Investigations* (Davidson College: 2009)

- *Amphibian and Reptile Conservation* (Davidson College: 1999, 2001, 2003, 2005, 2006, 2010, 2012, 2014)
- *Imaging the Earth* (Davidson College: Fall 2001)
- *Invasion Biology* (Davidson College: Fall 2015)
- *Group Investigations in Herpetology* (Davidson College: Spring 2000, 2004, 2007, 2012, 2014, 2015, 2016)
- *Introductory Biology* (University of South Carolina at Aiken: 1997, 1998)
- *Advanced Human Anatomy* (Lab, Idaho State University: 1994)
- *Advanced Human Physiology* (Lab, Idaho State University: 1991–1994)
- *Research Techniques and Topics* (Idaho State University: 1994)

Research Mentorship

- Directed or mentored more than 70 undergraduate researchers from 1996 to 2016, including numerous honors and high-honors students, and supervised projects from conception through presentation and publication.
- ***Students mentored (1996–2016):*** Andrew Bridges, Andrew Roark, Jenny Roberts, Scott Briggs, David Stroupe, Lauren Halpin, Shane Lindsay (honors), Kristine Grayson (high honors), J. D. Willson (honors), James Van Dyke, Lisa Marks, Bill Johnson, Meghan Bryant, Christopher Thawley, Aubrey Heupel, Michelle Gooch, Michelle Kirlin, Joy Hester, Yurii Kornilev, Betsy Failey, Clint McCoy, Kristen Cecala, Leigh Anne Harden, Nick DiLuzio, Caitlin Westfall, Wesley Anderson, Shannon Pittman (honors), Amy Jendrek, Grant Connette, Devynn Birx Raybuck, Breanna Fonville, Charlotte Steelman (honors), Evan Eskew (honors), David Millican, Laura Bergner, Lynea Witzak, Amber Lassiter, Richard Bauer, Lauren Seay, Shawna Foley (honors), Courun Williams, Stephanie Hunt, Adriana Nassar, Madeline Kern (honors), Christian Oldham, Sarah Bowers, Chance Ruder, Elizabeth Underwood, Christiana Akins, Margaret Stebbins, Lauren Carter, Chandler Gray, Grayam Sailor-Tynes, Rebecca McKee (honors), Justin Strickland, Ana Pinheiro, Bri Bowerman, Kristen Gillespy, Whitner Chase, Ben Hardie, Cyrus Bahram, Emily Rademacher, Annalee Tutterow (honors), Natalie Haydt, Kaity Anstrom, Emma Johnson, Anna Marie Scoccimaro, Joe Zhou, Emma Rose Parker, Katie Greene, Alanna Horton, Aren Carpenter.

Science Communication and Conservation Art

- Associate Member, Artists for Conservation, 2026–present [link](#)
- Create scientifically informed graphite and colored-pencil wildlife art emphasizing animal behavior, natural history, and conservation
- Exhibited Tradition Keeper and Plains Elder in the 2026 Greeley Stampede Western Art Exhibition; Long View selected for Exhibizone's Kingdom Animalia 2026 exhibition [link](#)
- Develop public-facing professional science communication on invasive species, wildlife detection, ecological monitoring, interpretation of evidence, and field safety; individual posts have reached more than 20,000 impressions

Institutional Service

- Institutional Animal Care and Use Committee, Davidson College, 1998–2001 and 2011–2016.
- Student Study and Research Committee, Davidson College, 2012–2015.
- School for Field Studies — Davidson College Affiliate Representative, 1999–2016; Academic Advising Committee, 2013–2016; Curriculum Review Committee, 2014–2016.

- Faculty Study and Research Committee, Davidson College, 2010–2012.
- Supervisor, Natural Sciences Outreach Coordinator, Davidson College, 2009–2010.
- Center for Interdisciplinary Studies Committee, Davidson College, 2007–2009.
- E.E. Brown Conservation Fund Committee, Davidson College, 2005–2008.
- Dean Rusk Advisory Committee, Davidson College, 2003–2009.
- Strategic Planning Committee — Learning, Davidson College, 2008.
- Student Conduct Committee, Davidson College, 2004–2007.
- Faculty and staff search committees, Davidson College, 2000–2012, including searches in ecology, conservation biology, instructional technology, biology administration, and science outreach.
- Davidson College SACS Accreditation Committee (Depth), 2005–2006.
- Director, NSF Research Experiences for Undergraduates in the Life Sciences, Davidson College, 2003–2005.
- Environmental Fellow, Associated Colleges of the South, 2001–2002.
- Information technology, academic computing, network, and library committee service, Davidson College, 1999–2002.
- Honors Thesis Committee Member — Jennie Hillmann, 1999–2001; Stephanie Courchesne, 2000–2002, Davidson College.
- Davidson College Affiliate Representative for Columbia University's Biosphere II, 1999–2003.
- Website Coordinator, Savannah River Ecology Laboratory Herpetology Group, 1997–1998.
- Faculty Research Committee, Idaho State University, 1991–1993; Tenure Review Committee Member for Charles R. Peterson, 1992; Search Committee Member, Physiology Position, 1993.