

Curriculum vitae of

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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

Current Position

2011 - present: Professor of Biology, Department of Biology, Davidson College, NC.

Professional Employment History

2004 – 2011: Associate Professor, Department of Biology, Davidson College, NC.
2009 - 2010: Visiting Research Scientist, University of Georgia - Savannah River Ecology Laboratory (sabbatical)
1998 - 2004: Assistant Professor, Department of Biology, Davidson College, NC.
2002 - 2003: Visiting Research Scientist, University of Georgia - Savannah River Ecology Laboratory (sabbatical)
1995 - 1998: Postdoctoral Fellow, University of Georgia - Savannah River Ecology Laboratory.
1997 - 1998: Instructor, Introductory Biology, Univ. of South Carolina (Aiken).
1994 - 1995: Research Associate, Idaho State University
1991- 1994: Teaching Assistant (Advanced Human Physiology and Advanced Human Anatomy), Idaho State University.
1990 - 1995: Herpetological Collections Manager, Idaho State University.
1990 - 1991: Research Assistant, Idaho State University.
1986 - 1990: Biology Instructor, Hurst-Eules-Bedford Independent School District

Research Interests:

- Animal ecology, especially that of amphibians and reptiles
- Conservation biology
- Invasive species biology
- Physiological ecology

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.

Publications

Books

- 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.
- Dorcas, M. and W. Gibbons. 2011. Frogs: the Animal Answer Guide. Johns Hopkins University Press, Baltimore, MD.
- Dorcas, M. and W. Gibbons. 2008. Frogs and Toads of the Southeast. University of Georgia Press, Athens, GA.
- 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.
- Gibbons, W. and M. Dorcas. 2005. Snakes of the Southeast. University of Georgia Press, Athens, GA.
- Dorcas, M. E. 2004. A Guide to the Snakes of North Carolina. Davidson College Herpetology Laboratory, Davidson, NC.
- Gibbons, J. W. and M. E. Dorcas. 2004. North American Watersnakes: A Natural History. University of Oklahoma Press, Norman, OK.

Book Chapters (“*” denotes student coauthor)

- Dorcas, M. E. and C. R. Peterson. *in press*. Automated data acquisition. *In*: G. Graeter and J. Gibbons (eds.), Monitoring Methods for Amphibians and Reptiles. Partners in Amphibian and Reptile Conservation - special publication.
- Dorcas, M. E. and C. R. Peterson. 2011. Automated data acquisition. *In*: R. McDairmid, M. Foster, C. Guyer, J. Gibbons, N. Chernoff (eds.): Reptile Biodiversity – Standard Methods for Inventory and Monitoring. University of California Press, Los Angeles, CA.
- 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.
- Dorcas, M. E. and J. D. Willson. 2009. Innovative methods for studies of snake ecology and conservation. *In*: S. Mullin and R. Seigel (eds.), Snakes: Applied Ecology and Conservation. Cornell University Press, Ithaca, NY.
- *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. Jung and J. Mitchell (eds.), Urban Herpetology. Herpetological Conservation Vol. 3, Society for the Study of Amphibians and Reptiles. Salt Lake City, UT.

- Dorcas, M. E. and S. J. Price. 2008. Effective undergraduate-based herpetological research in an urban setting. *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.
- *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.
- 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.
- 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.
- Dorcas, M. E. and J. W. Gibbons. 2008. Glossy grayfish 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.
- 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.
- 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.
- 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.
- 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, LC, Eagle Mountain, UT.
- 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, 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. <http://www.srs.fs.fed.us/sustain/conf/>

- Dorcas, M. E. 1998. Snake biodiversity in South Carolina and Georgia. *in* Snakes of South Carolina and Georgia. SREL Herp Outreach Publication #1. Aiken, SC.
- Peterson, C. R. and M. E. Dorcas. 1994. Automated data acquisition. pp. 47-57. *in* Measuring and Monitoring Biological Diversity - Standard Methods for Amphibians. (W.R. Heyer, R.W. McDiarmid, M. Donnelly, and L. Hayek, eds.). Smithsonian Institution Press, Washington, D.C.
- Peterson, C. R., A. R. Gibson, and M. E. Dorcas. 1993. Snake thermal ecology: the causes and consequences of body temperature variation. pp. 241-314. *in* Snakes: Ecology and Behavior. (R.A. Seigel and J.T. Collins, eds.). McGraw-Hill Publishing Company, New York, N.Y.
- Peterson, C. R. and M. E. Dorcas. 1992. The use of automated data acquisition techniques in monitoring amphibian and reptile populations. pp. 369-378. *in* Wildlife 2001: Populations. (D.R. McCullough and R.H. Barrett, eds.). Elsevier Applied Science, London.
- Dorcas, M. E. 1992. Relationships among montane populations of *Crotalus lepidus* and *Crotalus triseriatus*. pp. 71-87. *in* Biology of the Pitvipers. (J.A. Campbell and E.D. Brodie, Jr., eds.) Selva Publ., Tyler, Texas.

Publications in Peer-Reviewed Journals ("*" denotes student coauthor)

- Dorcas, M.E., J.D. Willson, R.N. Reed, R.W. Snow, M.R. Rochford, *M.A. Miller, W.E. Mehsaka, Jr., P.T. Andreadis, F.J. Mazzotti, C.M. Romagosa, K.M. Hart. *in press*. Severe Mammal Declines Coincide with Proliferation of Invasive Burmese Pythons in Everglades National Park. Proceedings of the National Academy of Sciences.
- Eskew, E.A.*, S.J. Price and M.E. Dorcas. *in press*. Effects of flow regulation on anuran occupancy and abundance in riparian zones. Conservation Biology.
- Price, S.J., *E.A. Eskew, *K.K. Cecala, R.A. Browne and M.E. Dorcas. 2012. Estimating survival of a streamside salamander: importance of temporary emigration, capture response, and location. Hydrobiologia 679:205-215.
- Price, S.J., R.A. Browne and M.E. Dorcas. 2012. Evaluating the effects of urbanisation on salamander abundances using a before-after control-impact design. Freshwater Biology 57:193-203
- *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 DOI 10.1007/s10592-011-0257-2.
- Price, S.J., *K.K. Cecala, R.A. Browne and M.E. Dorcas. 2011. Effects of urbanization on occupancy of stream salamanders. Conservation Biology 25:547-555.

- 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.
- *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.
- *Grosse, A.M., J.C. Maerz, J.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.
- 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. DOI: 10.1007/s10530-010-9869-6.
- 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. DOI 10.1007/s10530-010-9797-5.
- *Eskew, E.A., S.J. Price, and M.E. Dorcas. 2010. Survivorship of painted turtles (*Chrysemys picta*) in recently modified suburban landscapes. *Chelonian Conservation Biology* 9:244-249.
- Willson, J.D., M.E. Dorcas, and R.W. Snow. 2010. Identifying plausible scenarios for the establishment of invasive Burmese pythons (*Python molurus*) in southern Florida. *Biological Invasions* 13:1498-1504. DOI 10.1007/s10530-010-9908-3.
- *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.
- *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.
- *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.
- 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.
- *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.
- *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.

- *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.
- *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.
- *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.
- *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.
- *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.
- *Eskew, E. A., S. J. Price, and M. E. Dorcas. 2008. New distributional records for reptiles and amphibians from the Charlotte-metropolitan of the western Piedmont of North Carolina. *Herpetological Review* 39:245-246.
- *Westfall, M. C., *K. K. Cecala, S. J. Price, and M. E. Dorcas. 2008. Patterns of trombiculid mite (*Hannemania dunni*) parasitism among plethodontid salamanders in the western Piedmont of North Carolina. *Journal of Parasitology* 94:631-634.
- *Pittman, S. E., *A. L. Jendrek, S. J. Price, 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.
- *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.
- *Zhang, Y., *M. C. Westfall, *K. C. Hermes, M. E. Dorcas. 2008. Physiological and behavioral control of heating and cooling rates in rubber boas, *Charina bottae*. *Journal of Thermal Biology* 33:7-11.
- *Cecala, K. K., S. J. Price, and M. E. Dorcas. 2007. *Pseudotriton ruber*. Polymelia. *Herpetological Review* 38:434.
- *Failey, E. L., *J. C. McCoy, S. J. Price and M. E. Dorcas. 2007. Ecology of turtles inhabiting golf course and farm ponds in the western Piedmont of North Carolina. *Journal of North Carolina Academy of Science* 123:221-232.

- *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.
- *Cecala, K. K., S. J. Price, and M. E. Dorcas. 2007. The diet of larval red salamanders (*Pseudotriton ruber*) examined using a non-lethal technique. *Journal of Herpetology* 41:741-745.
- Dorcas, M. E., *J. D. Willson, and J. W. Gibbons. 2007. Crab trapping causes population decline and demographic changes in diamondback terrapins over two decades. *Biological Conservation* 137:334-340.
- *McCoy, J. C., *E. L. Failey, S. J. Price, and M. E. Dorcas. 2007. An assessment of leech parasitism on semi-aquatic turtles in the western Piedmont of North Carolina. *Southeastern Naturalist* 6:191-202.
- *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.
- *Anderson, W. M. and M. E. Dorcas. 2006. *Crotalus horridus* (Timber rattlesnake): Geographic Distribution. *Herpetological Review* 37:497.
- *Pittman, S. E. and M. E. Dorcas. 2006. Catawba River corridor coverboard program: a citizen science approach to amphibian and reptile inventory. *Journal of the North Carolina Academy of Sciences* 122:142-151.
- *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.
- *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.
- 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.
- Gibbons, J. W. ... M. E. Dorcas (15 of 24 authors). 2006. Remarkable amphibian biomass and abundance in an isolated wetland, with implications for wetland conservation. *Conservation Biology* 20:1457-1465.
- *Budischak, S. A., *J. M. Hester, S. J. Price, and M. E. Dorcas. 2006. Natural history of box turtles, *Terrapene carolina*, in an urbanized landscape. *Southeastern Naturalist* 5:191-204.

- *Rice, A. N., *T. L. Roberts, IV, M. E. Dorcas' 2006. Heating and cooling rates of eastern diamondback rattlesnakes, *Crotalus adamanteus*. *Journal of Thermal Biology* 31:501-505.
- *Kornilev, Y. V., S. J. Price, *E. P. Hill, and M. E. Dorcas. 2006. *Ambystoma maculatum* (spotted salamander): mortality during reproduction. *Herpetological Review* 37:196.
- Dorcas, M. E., S. J. Price, and G. E. Vaughan. 2006. Amphibians and reptiles of the Great Falls Bypassed Reaches in South Carolina. *Journal of the North Carolina Academy of Science* 122:1-9.
- *Gooch, M. M., *A. 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.
- *Kirlin, M. S., *M. M. Gooch, S. J. Price, and M. E. Dorcas. 2006. Predictors of winter anuran calling activity in the North Carolina Piedmont. *Journal of the North Carolina Academy of Science* 122:10-18.
- *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.
- *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.
- *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.
- *Grayson, K. L. and M. E. Dorcas. 2004. Seasonal temperature variation in the painted turtle (*Chrysemys picta*). *Herpetologica* 60:325-336.
- *Willson, J. D. and M. E. Dorcas. 2004. A comparison of aquatic drift fences with traditional funnel trapping as a quantitative method for sampling amphibians. *Herpetological Review* 35:148-150.
- *Willson, J. D. and M. E. Dorcas. 2004. Aspects of the ecology of small fossorial snakes in the western Piedmont of North Carolina. *Southeastern Naturalist* 3:1-12.
- Dorcas, M. E., Hopkins, W. A., 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.

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- *Willson, J.D. and M.E. Dorcas. 2003. Quantitative sampling of stream salamanders: a comparison of dipnetting and funnel trapping techniques. *Herpetological Review* 34: 128-130.
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- *Willson, J. D. and M. E. Dorcas. 2003. Effects of habitat disturbance on stream salamanders: implications for buffer zones and watershed management. *Conservation Biology* 17:763-771.
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- 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* 167:83-90.
- Gibbons, J. W. and M. E. Dorcas. 2002. Defensive behavior of cottonmouths (*Agkistrodon piscivorus*) towards humans. *Copeia* 2002:195-198.
- *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.
- *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.
- *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.
- 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.
- 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.
- *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.

- *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.
- *Bridges, A. S. and M. E. Dorcas. 2000. Temporal variation in anuran calling behavior: implications for surveys and monitoring programs. *Copeia* 2000:587-592.
- *Mills, M. S., *S. M. Poppy, A. M. Mills, *T. J. Ryan, and M. E. Dorcas. 2000. *Seminatrix pygaea*. Diet. *Herpetological Review* 31:47.
- *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.
- *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.
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- 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.
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Dorcas, M. E. and J. R. Mendelson III. 1990. Geographic distribution. *Lampropeltis getulus holbrooki*. Herpetological Review 21:23.

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.

Miscellaneous Publications

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 [WWW document]. URL <http://edis.ifas.ufl.edu/uw286>

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Dorcas, M. E. 2005. Idaho's little boa constrictor. Reptiles Magazine 13:38-42

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.

Presentations at Regional, National, and International Scientific Meetings

> 135 presentations, > 80 with student authors.

Invited Seminars

Dramatic Declines in Mammal Populations Coincide with Python Proliferation in Everglades National Park. Invasive Species Symposium, Annual Meeting of the Wildlife Society, Kona, HI, November 2011.

Ecology and Impacts of Giant Pythons in the United States. Eastern Kentucky University, Lexington, KY, September 2011.

Giant Pythons in the United States: Their Ecology and Management. Auburn University, Auburn, AL, April 2011.

The Problem of Invasive Pythons in the United States. College of Charleston, Charleston, SC, April 2011.

Invasive Pythons in the United States. University of North Carolina – Pembroke, Pembroke, NC, March 2011.

Giant Snakes in a Changing World: The Problem of Invasive Pythons in the United States. Biological Consequences of Global Change - 4th International Symposium of Integrative Zoology Kunming, China, December 2010

The Problem of Invasive Pythons in the United States. University of Virginia, Mountain Lake Biological Station, Blacksburg, VA, July 2010.

Ecology and Thermal Biology of Invasive Burmese Pythons in the United States. US Fish and Wildlife Service, Vero Beach, June 2010.

The Biology and Problem of Invasive Pythons in the United States. Western Carolina University, April 2010.

Assessing the Problem of Invasive Pythons in the Southeastern United States. University of Georgia's Savannah River Ecology Laboratory, August, 2009.

Ecology of Invasive Burmese Pythons in Florida. Fifth Meeting of the Snake Ecologists Group, Donnelly, ID, July 2009.

The Problem of Invasive Pythons in the United States: What can be done? Annual Meeting of the Southeast Partners in Amphibian and Reptile Conservation, Montreat, NC, February 2009.

Anthropogenic impacts on amphibians and reptiles: the effects of urbanization, harvest and invasive species. Drexel University, January 2009.

Herps and humans: Detrimental impacts of humans on amphibians and reptiles. University of South Carolina Upstate, November 2008.

Anthropogenic impacts on reptile and amphibian populations. University of Georgia, October 2008

Effects of humans on amphibians and reptiles: urbanization, harvest, and invasive species. University of North Carolina Wilmington, September 2008

Herpetology at Davidson: Development of an effective, multi-disciplinary, undergraduate-based research program. Undergraduate Research Symposium - Annual Meeting of the Association of Southeastern Biologists, Spartanburg, SC, April 2008

Turtles, Frogs, and Snakes: Effective ecological research with undergraduate herpetology students. Undergraduate Research Symposium – University of South Carolina Upstate, April 2008

Ecology and conservation of diamondback terrapins in the southeastern United States. Annual Meeting of the Southeastern Diamondback Terrapin Working Group, February 2008.

Conservation of amphibians and reptiles in North Carolina. North Carolina Chapter of the Wildlife Society, February 2008

Herps and humans: Anthropogenic impacts on amphibian and reptile populations. Wake Forest University, September 2007.

Urban Herpetology: Challenges and Opportunities for Education, Research, and Conservation. Northeast Partners in Amphibian and Reptile Conservation, Mountain Lake Biological Station, August, 2007.

How we affect the lives of our amphibian and reptile neighbors. School for Field Studies, Queensland, Australia. July 2007.

Urbanization effects on amphibians and reptiles in the Carolinas. University of North Carolina at Charlotte, November 2006.

Impacts of urbanization on amphibians and reptiles in the Carolinas. Annual Meeting of the Virginia Herpetological Society – Keynote Address, October 2006.

Effective techniques for field studies of amphibians and reptiles. Annual Meeting of the Virginia Herpetological Society. (with Kristen Cecala), October 2006.

Population decline and demographic changes of a diamondback terrapin population over two decades: causes and potential solutions. Powdermill Turtle Biology Meetings, Portal, Arizona, September 2006.

What have diamondback terrapins told us of their past that can help us with their future? Georgia Diamondback Terrapin Workshop, Jekyll Island, Georgia, March 2006.

The world of amphibians and reptiles: model species for environmental education. South Carolina Environmental Educators Association, Columbia, South Carolina, March 2006.

The thermal biology and energetics of eastern diamondback rattlesnakes (*Crotalus adamanteus*). Third Annual South Carolina Herpetology Conference. January 2006.

Impacts of Urbanization on Amphibians and Reptiles in the Carolinas. Inaugural Meeting of the University of Georgia Herpetological Society, October 2005.

Lessons from Two Decades of Tracking Terrapins in Tidal Creeks: Kiawah Island, South Carolina. Meeting of the ACE Basin National Estuarine Research Reserve, October 2005.

Physiology and Ecology of Rubber boas (*Charina bottae*) in Southeastern Idaho. Joint Annual Meeting of the Association of the Society for the Study of Amphibians and Reptiles, Herpetologists' League, and American Society of Ichthyologists and Herpetologists. Tampa, FL July 2005.

Protecting our Natural Heritage: Amphibian and Reptile Conservation in North Carolina.
Reptile and Amphibian Day Featured Speaker, North Carolina State Museum of Natural Sciences, March 2005

Techno-Herpetology – Herpetological Research and Education at Davidson College – Annual Meeting of the North Carolina Herpetological Society, Raleigh, NC. November 2004.

Thermal biology and energetics of the eastern diamondback rattlesnake. Snake Ecologists Meeting IV, Marion, IL. May 2004.

Snake Conservation in the Carolinas. University of South Carolina at Lancaster, August 2003.

Herpetological conservation in an urban setting: amphibian and reptile research at Davidson College. University of South Carolina at Spartanburg, November 2002.

Herpetology at Davidson College: Continuing in the Tradition of Elmer Brown. Annual Meeting of the North Carolina Herpetological Society, May 2002.

Technological Investigations of the Natural History and Thermal Biology of Eastern Diamondback Rattlesnakes. Appalachian State University, March 2001.

Novel techniques for measuring snake body temperatures. Snake Ecology Meeting, Fayetteville, Arkansas, September 2000.

The thermal biology of eastern diamondback rattlesnakes. Biology of the Vipers Symposium, Upsala, Sweden.

The natural history and thermal biology of Eastern Diamondback Rattlesnakes. University of North Carolina at Greensboro, March 2000.

A study of the defensive behavior of cottonmouths. Annual Meeting of the North Carolina Herpetological Society. Lake Matamuskeet, NC, April 1999.

Rubber boa thermal biology in Idaho. University of Alabama, Tuscaloosa, AL. April, 1998.

The thermal biology of boa constrictors in Idaho. Auburn University, Auburn, AL. November, 1997.

Snake thermal biology: Integrating laboratory and field techniques. Snake Ecology for the 21st Century - Annual Meeting of the Texas Herpetological Society, University of Texas at Tyler, Tyler, TX. October, 1997.

The thermoregulatory behavior and thermal physiology of rubber boas in Idaho. Francis Marion University, Florence, SC. March, 1997.

The thermal biology of rubber boas, a cold tolerant snake. Southeast Louisiana State University, Hammond, LA. October, 1996.

Balancing Ecology and Economy: Herpetological Research in South Carolina.
Francis Marion University, Florence, SC. June, 1996.

Using automated recording systems to monitor anuran populations. EcoLip Seminar at the
Savannah River Ecology Laboratory, Aiken, SC. May, 1996

Funding (Current and Past)

- 2011 Williams-Transco. Status of Bog Turtles in Gaston County. - \$40,000
- 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. - \$2600
- 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. - \$4886.
- 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. - \$2600
- 2009 Duke Energy. Herpetological Surveys of the Proposed Railroad Site between Gaffney and the W.S. Lee III Nuclear Station, Cherokee County, SC and Its Vicinity. - \$26,413
- 2008 Greenville Water System. Habitat Evaluation for Bog Turtles. - \$7169
- 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. - \$2600
- 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. - \$2000
- 2008 Associated Colleges of the South Faculty Development Grant. Unique opportunities for undergraduate research: Studies of invasive Burmese pythons in Everglades National Park — \$4800
- 2007 South Carolina Department of Natural Resources. Carolina Herp Atlas - \$17,074.
- 2007 Herpetological Survey of the W. S. Lee III Nuclear Station, South Carolina: Potential Impacts of Operations on Semi-aquatic Species - \$2710
- 2007 Duke Energy Foundation. Herpetological Research and Education in the Catawba River Region. - \$2500
- 2007 Ecology, Conservation, and Management of a Bog Turtle Population in the Western Piedmont of North Carolina. - \$8450 (Shannon E. Pittman, co-PI)
- 2007 Davidson College Faculty Research Grant. Causes and Effects of Limb Loss on Survivorship of Diamondback Terrapins. - \$2600.
- 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. - \$2507
- 2006 Duke Energy Foundation. Herpetological Research and Education in the Catawba River Region. - \$1500
- 2005 Davidson College Faculty Research Grant. Effects of Urbanization on Genetic Variation in Amphibian Populations. - \$2600
- 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. - \$2000
- 2004 National Science Foundation – CAREER Grant. Effects of Urbanization on Amphibian and Reptile Populations. – 5-year grant - \$612,761 - plus, REU Supplements 2004 - \$6000; 2005 - \$6000; 2006 - \$12,000; 2007 - \$12,000, 2008 - \$12,000, 2009 - \$7000.

- 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. - \$1500
- 2004 Davidson College Faculty Study and Research Grant. Continued monitoring of the Herpetofauna of Tortuguero National Park, Costa Rica. - \$2600
- 2003 Associated Colleges of the South - Teaching with Technology Fellowship. Floral and Faunal Identification Made Easy: a Novel Approach to an Old Problem. - \$2500
- 2003 Duke Energy Foundation. Herpetological Outreach and Research. - \$3500
- 2003 Davidson College Faculty Study and Research Grant. Herpetological Investigations of Tortuguero National Park, Costa Rica. - \$2500
- 2003 Associated Colleges of the South – Campus-Community Partnership Grant. Vertebrate Inventory of the Brackett Preserve, Davidson, NC. - \$3500 (Mark Stanback, co-PI)
- 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, co-PI) + 63,271 supplement (Julio Ramirez, PI)
- 2002 National Park Service. Herpetofaunal surveys on five National Park Units in North and South Carolina. \$37,226 (Robert Reed, PI, and J. Whitfield Gibbons, co-PI)
- 2002 Duke Energy Foundation. Support for the Davidson College Herpetology Program. - \$5100
- 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. - \$2500
- 2002 Global Partners Project. Herpetological Research Opportunities in Kenya. - \$2400
- 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. - \$3200
- 2001 Davidson College Faculty Study and Research Grant. Herpetological Biodiversity of the Ramah Creek Conservation Easement - \$2999

- 2001 Associated Colleges of the South - Teaching with Technology Fellowship. Techno-herpetology: Advanced Data Collection Techniques for Students Involved in Long-term Ecological Studies. - \$2500
- 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 of the Recognition of Anuran Vocalizations. - \$2500
- 1999 Davidson College Faculty Study and Research Grant. Conservation of Davidson's Amphibians and Reptiles: Historical and Current Patterns. - \$2499
- 1998 Idaho State University. Development and testing of an automated recording systems 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. - \$2500.
- 1998 The Nature Conservancy of Georgia. A Study to Document the Species Diversity of Amphibians and Reptiles on Fort Gordon, Georgia. - \$8700. (J. Whitfield Gibbons, co-PI).
- 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 over 2 years. (J. Laerm and T. S. McCay, co-PI's).
- 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 over 3 years. (J. Whitfield Gibbons, co-PI).
- 1996 USDA Forest Service Cooperative Research Grant. Development and testing of an automated recording systems for monitoring anurans and birds on the Savannah River Site. - \$32,504 over 2 years. (Charles R. Peterson, co-PI).
- 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, co-PI).
- 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. - \$7639 over 2 years. (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 Graduate Student Research and Scholarship Committee, Idaho State University. 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.

Courses Taught: (see www.bio.davidson.edu/dorcas for details of all Davidson courses)

- ***Animal Physiology*** (Davidson College: Fall 1998-2001, 2003-08, 2010-11)
- ***Organisms, Evolution, and Ecosystems*** (Davidson College: Spring 1999-2002, 2004-09)
- ***Costa Rican Natural History and Herpetological Investigations*** (Davidson College: Spring 2009)
- ***Amphibian and Reptile Conservation*** (Davidson College: Spring 1999, Fall 2001, 2003, 2005, 2006, 2010)
- ***Imaging the Earth*** (Davidson College: Fall 2001)
- ***Group Investigations in Herpetology*** (Davidson College: Spring 2000, 2004, 2007)
- ***Independent Research and Honors Students*** (Davidson College) - Andrew Roark, 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, Christian Oldham.

- **Introductory Biology** (U. South Carolina at Aiken: Fall 1997, Spring 1998)
- **Advanced Human Anatomy** (TA – Idaho State University: Summer 1994)
- **Advanced Human Physiology** (TA – Idaho State University: 1991-1994)
- **Research Techniques and Topics** (Idaho State University: 1994)

Honors and Awards:

- 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. 2005. Snakes of the Southeast. University of Georgia Press, Athens, GA. – 2005
- 2004 Environmental Educator of the Year – Governor’s Achievement Award – presented by the North Carolina Wildlife Federation
- 2004 Board of Governors – American Society of Ichthyologists and Herpetologists
- 2002 Presidential Leadership Award - School for Field Studies
- 2001 Nominated to Executive Board of the Herpetologist’s League
- 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. April, 1998.
- 1997 Encyclopedia Book of the Year featured research by M.E. Dorcas and C.R. Peterson on head-body temperature differences in free-ranging rubber boas.
- 1994 Best student paper. "Body temperature variation in free-ranging rubber boas (*Charina bottae*)." Annual Meeting of the Idaho Academy of Science, Pocatello, ID. April, 1994.
- 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 Herpetologist's League, Urbana, IL. June, 1992.

- 1992 American Society of Ichthyologists and Herpetologists Student Travel Award.
1991 American Society of Zoologists Student Travel Award.

Professional Organizations

American Society of Ichthyologists and Herpetologists
Association of Southeastern Biologists
Diamondback Terrapin Working Group
Herpetologist's League
International Society of Zoological Sciences
North Carolina Academy of Science
North Carolina Herpetological Society
North Carolina Partners in Amphibian and Reptile Conservation
Partners in Amphibian and Reptile Conservation
Society for the Study of Amphibians and Reptiles
The Wildlife Society
Turtle Survival Alliance

Reviewer

Animal Conservation
Applied Herpetology
Biological Conservation
Biological Invasions
Biological Journal of the Linnaean Society
Banisteria
BioScience
Brimleyana
Chelonian Conservation and Biology
Conservation Biology
Copeia
Ecography
Ecology
Herpetologica
Herpetological Journal
Herpetological Natural History
Herpetological Review
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 Great Lakes Research
Journal of the North Carolina Academy of Science
Journal of Herpetology
Journal of Thermal Biology
Journal of Wildlife Management

Journal of Zoology
National Science Foundation – Grant Reviewer
New Zealand Journal of Zoology
Oikos
Physiological and Biochemical Zoology
Southeastern Naturalist
Southwestern Naturalist
The Herpetological Journal
USGS – Grant Reviewer
Virginia Sea Grant – Grant Reviewer

Professional Activities:

- Chair – North Carolina Scientific Council for Amphibians and Reptiles. 2009-present.
- Co-Chair – Diamondback Terrapin Working Group. 2010 – present.
- Editorial Board – Journal of the North Carolina Academy of Sciences. 2002-present.
- Website Director – North Carolina Partners in Amphibian and Reptile Conservation (NCPARC). 2004 – present.
- Ph.D. Committee Member – Theresa Walters, University of Florida. 2009 – present.
- Ph.D. Committee Member – Leigh Anne Harden, UNC Wilmington. 2008 – present.
- Advisory Board – Davidson Lands Conservancy. 2002-present.
- Research Advisor - Project Bog Turtle. North Carolina Museum of Natural History. 2000-present.
- Board of Governors – American Society of Ichthyologists and Herpetologists. 2004-2010.
- Education Committee – Society for the Study of Amphibians and Reptiles – 2008-2011.
- Steering Committee – North Carolina Partners in Amphibian and Reptile Conservation (NCPARC). 2004 – 2009.
- Chair - Research, Inventory, Management, and Monitoring Working Group - North Carolina Partners in Amphibian and Reptile Conservation (NCPARC). 2005 – 2009.
- Campus/Community Grants Program Committee Member – Associated Colleges of the South Environmental Program. 2005- 2009.
- 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.
- North Carolina Scientific Council for Amphibians and Reptiles. 2004-2008.
- Session Moderator – Animal Ecology. Annual Meeting of the Association of Southeastern Biologists, Spartanburg, SC, April 2008.
- Director - Central Carolina Amphibian and Reptile Initiative (CCARI). 2000-2008.
(www.ccari.org)
- Ph.D. Committee Member – Christopher Winne, University of Georgia. 2005 – 2008
- Guest Editor – Conservation Biology. 2007
- National Science Foundation – Graduate Research Fellowship Review Panel. February 2007.
- Guest Editor – Southeastern Naturalist. 2006

- Steering Committee - Partners in Amphibian and Reptile Conservation (PARC). 2002-2005
- National Science Foundation – Graduate Research Fellowship Review Panel. February 2006.
- President – Southeast Chapter of the American Society of Ichthyologists and Herpetologists. 2004 – 2005.
- Student Paper Judge - Odum Award - Annual Meeting of the Association of Southeastern Biologists, Florence, AL, April 2005.
- National Science Foundation – Graduate Research Fellowship Review Panel. February 2005.
- Associate Editor – *Herpetologica* - Published by the Herpetologists League. 2003-2004.
- Workshop Anchor – Physiological Ecology, Snake Ecologists Meeting IV, Marion, IL. May 2004.
- National Science Foundation – Graduate Research Fellowship Review Panel. February 2004.
- Vice President - Southeast Chapter of the American Society of Ichthyologists and Herpetologists. 2003-2004.
- National Science Foundation – Research Experiences for Undergraduates (REU) Review Panel. December 2003.
- Secretary/Treasurer - Southeast Chapter of the American Society of Ichthyologists and Herpetologists. 2002-2003.
- National Science Foundation – Research Experiences for Undergraduates (REU) Review Panel. December 2002.
- Associate Editor - *Herpetological Review* - Published by the Society for the Study of Amphibians and Reptiles. 2000-2003.
- Society for the Study of Amphibians and Reptiles – Kennedy Award Judge. 2002.
- Host - Annual Meeting of the North Carolina Herpetological Society. May 2002.
- National Science Foundation – Graduate Research Fellowship Review Panel. February 2003.
- Board of Directors - Davidson Lands Conservancy. 2000-2002.
- National Science Foundation – Graduate Research Fellowship Review Panel. February 2002.
- Conservation Committee - Society for the Study of Amphibians and Reptiles. 2000-2002.
- Student Paper Judge - Odum Award - Annual Meeting of the Association of Southeastern Biologists, Boone, NC. April 2002.
- Graduate Student Poster Judge - Joint Meeting of the Association of Ichthyologists and Herpetologists, the Herpetologist's League, and the Society for the Study of Amphibians and Reptiles. LaPaz, B.C.S., Mexico. June 2000.
- Graduate Student Paper Judge - Annual Meeting of the Association of Southeastern Biologists, Chattanooga, TN, April 2000.
- Grants-in-Herpetology Committee Member - Society for the Study of Amphibians and Reptiles. 1999-present.
- Chairperson: Student Travel Award Committee Member. Association of Southeastern Biologists. 1998-present.

- Chairperson: Monitoring Protocols Working Group. Declining Amphibians Population Task Force. 1996-1999.
- Reviewer: Grant Applications to the Florida Game and Fresh Water Fish Commission, Nongame Wildlife Program. 1996-present.
- Adjunct Faculty Member and Master's Thesis Committee Member for Stephen Richter. Southeastern Louisiana University. 1996-1998.
- Session Chair: Amphibian and Reptile Physiology at the Joint Meeting of the Association of Ichthyologists and Herpetologists, the Herpetologist's League and the Society for the Study of Amphibians and Reptiles, Seattle, WA. June, 1997.

School Service:

- Institutional Animal Care and Use Committee. Davidson College, 2011-present.
- Faculty Study and Research Committee, Davidson College – 2010-present.
- School for Field Studies - Davidson College Affiliate Representative, 1999 - present.
- Supervisor – Natural Sciences Outreach Coordinator, 2009 – 2010.
- Search Committee – HHMI Sciences Outreach Coordinator, 2009.
- Center for Interdisciplinary Studies Committee – Sarah Rhodes, 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.
- Search Committee Member – Biology Departmental Assistant, 2007.
- Search Committee Member – Biology Departmental Assistant, 2006.
- Davidson College SACS Accreditation Committee (Depth), 2005-2006.
- Search Committee Member – Instructional Technologist, 2005-06.
- Director, NSF Research Experience for Undergraduates in the Life Sciences, 2003-2005.
- Associated Colleges of the South, Environmental Fellow, 2001-2002.
- Joint Committee Information Technology. Davidson College, 2001-2002.
- Academic Computing Committee. Davidson College, 2000-2002.
- Search Committee Member - Ecologist Position - Dept. of Biology, Davidson College, 2000.
- Honor's Thesis Committee Member - Stephanie Courchesne. Davidson College, 2000-2002.
- Davidson College Affiliate Representative for Columbia University's Biosphere II, 1999-2003.
- Local Area Network Subcommittee. Davidson College, 1999-2001.
- Library Committee. Davidson College, 1999-2002.
- Institutional Animal Care and Use Committee. Davidson College, 1998-2001.
- Honor's Thesis Committee Member - Jennie Hillmann. Davidson College, 1999-2001.
- Web Site Coordinator, Savannah River Ecology Laboratory - Herpetology Group (<http://www.uga.edu/srelherp>) 1997-1998.
- Search Committee Member - Physiology Position. Department of Biological Sciences, Idaho State University. 1993
- Tenure Review Committee Member for Charles R. Peterson. Department of Biological Sciences, Idaho State University. 1992

- Faculty Research Committee Member. Idaho State University. 1991-1993