

SUMMARY CURRICULUM VITAE 2007

Lora L. Smith, Ph.D.

Associate Scientist



Dr. Lora L. Smith's research program is centered on the ecology of amphibians and reptiles of the Southeastern Coastal Plain, and in particular on herpetofaunal linkages between aquatic and terrestrial systems and keystone species in these systems. She is also investigating the interactions between natural and human disturbance legacies in longleaf pine forests and herpetofaunal communities. Aspects of her research program are incorporated into field courses for university students and regional science teachers.

Education:

PhD in Wildlife Ecology and Conservation, University of Florida, December 1999

MS in Wildlife Ecology and Conservation, University of Florida, August 1992

BS in Biology, Eckerd College, May 1982

Professional Experience:

2007- present: Associate Scientist, J.W. Jones Ecological Research Center

2001-2007: Assistant Scientist, J.W. Jones Ecological Research Center

2000-2001: Research Wildlife Biologist, U.S. Geological Survey

1999: Visiting Assistant Professor, Department of Natural Sciences, University of North Florida.

1998-1999: Research Wildlife Biologist, U.S. Geological Survey

1998: Field Biologist, Florida Museum of Natural History, University of Florida

1996-1997: Zoologist, Florida Natural Areas Inventory

1992: Field Ecologist, The Nature Conservancy

1985-1988: Associate Scientist, Water and Air Research, Inc.

Adjunct faculty positions

- University of Georgia
- Auburn University
- Texas A&M University
- University of Florida
- University of Maine

Professional Affiliations:

Herpetologists' League
 Society for the Study of Reptiles and Amphibians
 American Society of Ichthyologists and Herpetologists
 Association of Southeastern Biologists
 Society for Conservation Biology
 The Wildlife Society

Recent Research Publications: (Past 5 years)

Smith LL. 2008. Tiger Salamander, *Ambystoma tigrinum*. Pp. xx. *In The Amphibians and Reptiles of Georgia*, J. Jensen, C. Camp, M. Elliott, and J.W. Gibbons (eds.), University of Georgia Press, Athens, GA. *In press*.

Smith LL 2008. Central Florida Crowned Snake, *Tantilla relicta*. Pp. xx. *In The Amphibians and Reptiles of Georgia*, J. Jensen, C. Camp, M. Elliott, and J.W. Gibbons (eds.), University of Georgia Press, Athens. *In press*.

Liner AE, LL Smith and SB Castleberry. 2007. [Effects of toe-clipping on survival and growth of *Hyla squirella*](#). Herpetological Review 38:143-145.

Steen DA, LL Smith, LM Conner, JC Brock and SK Hoss. 2007. [Habitat use of sympatric rattlesnake species within the Gulf Coastal Plain](#). Journal of Wildlife Management 71:759-764.

Steen DA, SC Sterrett, SA Miller and LL Smith. 2007. [Terrestrial movements and microhabitat selection of overwintering subadult Eastern Mud Turtles \(*Kinosternon subrubrum*\) in southwest Georgia](#). Journal of Herpetology 41:532-535.

Muenz TK, SW Golladay, LL Smith and G Velledis. 2006. Stream buffer effectiveness in an agriculturally influenced area, southwestern Georgia: responses of water quality, macroinvertebrates, and amphibians. Journal of Environmental Quality 35:1924-1938. [This document may be obtained from the publisher's website.](#)

- Smith LL, WJ Barichivich, JS Staiger, KG Smith and CK Dodd Jr. 2006. [Detection probabilities and site occupancy estimates for amphibians at Okefenokee National Wildlife Refuge](#). American Midland Naturalist 155:149-161.
- Smith LL, DA Steen, JM Stober, MC Freeman, SW Golladay, LM Conner and JC Cochrane. 2006. [The vertebrate fauna of Ichauway, Baker County, GA](#). Southeastern Naturalist 5:599-620.
- Smith LL, TD Tuberville and RA Seigel. 2006. Workshop on the ecology, status and management of the gopher tortoise (*Gopherus polyphemus*), Joseph W. Jones Ecological Research Center, 16-17 January 2003: final results and recommendations. Chelonian Conservation and Biology 5:326-330. [This document may be obtained from publisher's website](#).
- Steen DA, AJ Aresco, SG Beilke, BW Compton, EP Condon, CK Dodd Jr, H Forrester, JW Gibbons, JL Greene, G Johnson, TA Langen, MJ Oldham, ND Oxier, RA Saumure, FW Schueler, J Sleeman, LL Smith, JK Tucker and JP Gibbs. 2006. Relative vulnerability of female turtles to road mortality. Animal Conservation 9:269-273.
- Steen DA and LL Smith. 2006. Road surveys for turtles: consideration of possible sampling biases. Herpetological Conservation and Biology 1:9-15.
- Steen DA, LL Smith, GJ Miller and SC Sterrett. 2006. [Post-breeding terrestrial movements of *Ambystoma tigrinum* \(Eastern Tiger Salamanders\)](#). Southeastern Naturalist 5:285-288.
- Sterrett SC, DA Steen and LL Smith. 2006. [Ambystoma tigrinum tigrinum \(Eastern Tiger Salamander\). Burrow description](#). Herpetological Review 37:435-436.
- Smith LL, KG Smith, WJ Barichivich, CK Dodd Jr. and K Sorensen. 2005. Roads and Florida's herpetofauna. a review and mitigation case study. Pp 32-40 in Meshaka Jr. WE and KJ Babbitt (eds.). Status and Conservation of Florida Amphibians and Reptiles. Kreiger Publishing Company, Malabar, FL.
- Steen DA, SN Becker and LL Smith. 2005. [Heterodon platirhinos \(Eastern Hog-nosed Snake\). Reproduction](#). Herpetological Review 36:457.
- Steen DA, GJ Miller, SC Sterrett and LL Smith. 2005. *Gopherus polyphemus*(gopher tortoise). [Juvenile use of gopher tunnel](#). Herpetological Review 36:442.
- Borg CK, SK Hoss and LL Smith. 2004. [A method for preventing flying squirrel mortality in PVC pipe tree refugia](#). Wildlife Society Bulletin 32:1313-1315.
- Dodd CK, Jr., WJ Barichivich and L.L. Smith. 2004. Effectiveness of a barrier wall and culverts in reducing wildlife mortality on a heavily traveled highway in Florida. Biological Conservation 118:619-631.
- Pedrono M, LL Smith, J Clobert, M Massot and F Sarrazin. 2004. Wild-captive metapopulation viability analysis. Biological Conservation 119:463-473.

- Dodd CK, Jr. and LL Smith. 2003. [Habitat destruction and alteration: historical trends and future prospects for amphibians](#). Pp. 94-112 in Semlitsch, R. (ed.). Amphibian Conservation, Smithsonian Books, Washington, D.C.
- Muenz TK, SW Golladay, G Vellidis and LL Smith. 2003. [Stream macroinvertebrates and amphibians as indicators of ecosystem stress: a case study from the Coastal Plain, Ga.](#) Pages 354-357 in K.J. Hatcher (ed.). Proceedings of the 2003 Georgia Water Resources Conference, Institute of Ecology, University of Georgia, Athens, GA.
- Pedrono M and LL Smith. 2003. [Land Tortoises](#). Pp. 951-956 in SM Goodman and J Benstead. (eds.). The Natural History of Madagascar. University of Chicago Press, Chicago, IL. © 2003 by The University of Chicago. All rights reserved.
- Smith LL. 2003. [Book Review: Life-Histories of the Frogs of the Okefinokee Swamp, North American Salientia \(Anura\) No.2. 2002](#). Cornell University Press, Ithaca, NY .xxi + 509 pp. Herpetological Review 34:181-182.
- Smith LL and CK Dodd, Jr. 2003. Wildlife mortality on U.S. Highway 441 across Paynes Prairie, Alachua County, Florida. Florida Scientist 66:128-140.
- Durden LA, JE Keirans and LL Smith. 2002. [Amblyomma geochelone, a new species of tick \(Acari: Ixodidae\) from the Madagascan ploughshare tortoise](#). Journal of Medical Entomology 39:398-403. This article is the copyright property of the Entomological Society of America and may not be used for any commercial or other private purpose without specific written permission of the Entomological Society of America.

Outreach Publications and Reports to Natural Resource Agencies: (Past 5 years)

- Smith LL and LM Conner. 2004. The Impacts of Non-Native and Native Subsidized Predators on Gopher Tortoise Populations. Final Report to the Jack Berryman Institute.
- Smith LL and LM Conner. 2003. Impacts of human land use on natural habitats and nongame wildlife species in the Flint River Basin. Final Report to Georgia DNR.
- Smith LL and LM Conner. 2004. Development of a GIS-based Model for Identifying Potential Flatwoods Salamander Habitat in the Coastal Plain of Georgia. Final Report to Georgia DNR.

Current Jones Center Research:

- Mitchell, RM, LK Kirkman, K Hiers, SB Jack, LL Smith. 2007. Silviculture that sustains and restores native biodiversity of pinelands in the southeastern coastal plain: legacies, fire and recovery periods.
- Kirkman LK, LL Smith, SW Golladay, SP Opsahl and DW Hicks. 2005. Depressional wetlands in the Coastal Plain landscape: Maintenance of regional biological diversity.

Golladay SW, SP Opsahl, LL Smith and DW Hicks. 2005. Hydrologic Variation and Human Development in the Lower Flint River Basin: An Ongoing Landscape-scale Experiment.

Conner LM and LL Smith. 2003. The ecological role of mesopredators in the longleaf pine ecosystem.

Grants and Contracts: (Past 5 years)

Smith, LL and J Stober. Gopher tortoise survey, population evaluation, and habitat suitability, Georgia Department of Natural Resources. Budget: \$77,063, October 2007- December 2008.

Maerz J, SW Schweitzer and LL Smith. Patterns of riparian disturbance and their influence on aquatic turtles in the lower Flint River Basin, Georgia, Georgia State Wildlife Grant Program. Budget: \$19,659, January 2006- December 2008.

Smith LL and SA Johnson. Ecology and Conservation of large terrestrial snakes in the longleaf pine ecosystem: Do upland snakes partition resources? Florida State Wildlife Grants Program. Budget: \$55,191.50, November 2005- December 2008. (Principal Investigator)

Smith LL and J Stober. Development of a Gopher Tortoise Survey Handbook. U.S. Army Corps of Engineers, Engineer Research and Development Center. Budget: \$23,424, May 2006- July 2007.

Conner LM. and LL Smith. The ecological role of predators in the longleaf pine ecosystem and habitat management approaches for reducing nest predation. National Fish and Wildlife Foundation. Budget: \$49,257, June 2005-May 2006.

Smith LL and LK Kirkman. Coastal plains ecosystems- Ecology and conservation management. Georgia Department of Natural Resources- Nongame Wildlife & Natural Heritage Section. Budget: \$1008, June 2005.

Conner LM and LL Smith. Development of a GIS-based model for identifying potential flatwoods salamander habitat in the coastal plain of Georgia. Georgia Department of Natural Resources. Budget: \$27,700, November 2003- October 2004.

Smith LL and LM Conner. The impacts of non-native and native subsidized predators on gopher tortoise populations. Berryman Institute East. Faculty Affiliate. Budget: \$7,650.00, 2003-2004.

Recent Student Advisement:

David A Steen. Current. Upland snake community composition and response to longleaf pine Succession and Restoration. Ph.D, Biological Sciences, Auburn University, Auburn, FL. (Co-advisor with Craig Guyer).

Sean C Sterrett. Current. The influence of riparian disturbance on aquatic turtles in the Lower Flint River Basin, Georgia. Warnell School of Forestry, Natural Resources and the Environment, University of Georgia, Athens, GA. (Co-advisor with John Maerz and Sara Schweitzer).

- Gabriel Miller. Current. Ecology and conservation of Florida pine snakes in the longleaf pine ecosystem. M.S., Wildlife Ecology and Conservation, University of Florida, Gainesville, FL. (Co-advisor with Steve A. Johnson).
- Erin Condon. Current. Department of Wildlife Ecology and Conservation, M.S., University of Florida, Gainesville, FL. (Co-advisor with George Tanner).
- Shannon K Hoss. 2007. Habitat use and male reproductive biology of the eastern diamondback rattlesnake. M.S., Thesis, Biological Sciences, Auburn University, Auburn, FL. (Co-advisor with Craig Guyer).
- Amanda Subalusky. 2007. The role of isolated, seasonal wetlands in the ecology of the American alligator. M.S. Thesis, Department of Wildlife and Fisheries Sciences Texas A&M University, College Station, TX. (Co-advisor with Lee Fitzgerald).
- Jon McClosky. 2006. Modeling the effects of an altered fire regime on vegetation succession and amphibian habitat associations within the Okefenokee Swamp. Ph.D. Dissertation, Wildlife Ecology, University of Maine, Orono, ME. (Graduate committee member).
- Anna Liner. 2006. Wetland predictors of amphibian species diversity and abundance. M.S. Thesis, Warnell School of Forest Resources, University of Georgia, Athens, GA. (Co-advisor with Steven Castleberry).
- Brooke Talley. 2005. Salamander species community of headwater streams and surrounding habitats in southwest Georgia, pre-and post-harvesting. M.S. Thesis, Environmental Engineering Sciences, University of Florida, Gainesville, FL. (Graduate committee member).
- Tara Muenz. 2004. Indicators of stream health: the use of benthic macroinvertebrates and amphibians in an agriculturally impacted area, southwest Georgia. M.S. Thesis, Institute of Ecology, Conservation Ecology and Sustainable Development. University of Georgia, Athens, GA. (Graduate committee member).