

CURRICULUM VITAE

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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:

2017-present: Scientist, Jones Center at Ichauway
2007-2016: 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.

University Affiliations:

- University of Georgia (Adjunct faculty)
- Auburn University (Affiliate faculty)
- University of Alabama (Affiliate faculty)
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Professional Memberships:

Herpetologists' League
Society for the Study of Reptiles and Amphibians
American Society of Ichthyologists and Herpetologists
The Wildlife Society
International Union for the Conservation of Nature, Species Survival Commission
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Publications:

- Xingwen, L., D. Gruenewald, I. G. W. Gottlieb, E. K. Dobbs, A. Miljanic, J. Botsch, B. Lawley, H. Ober, **L. L. Smith**, R. J. Fletcher, B. J. Brosi. 2020. The impact of bioenergy pine plantation management practices on bee communities. *Journal of Applied Ecology*. 57(5):849-1008. <https://doi.org/10.1111/1365-2664.13586>
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- McLeay, S., C. L. Atkinson, and **L. L. Smith**. 2019. The stoichiometry of larval anuran development in natural wetlands. *Journal of Freshwater Ecology*. 34:497-512. 10.1080/02705060.2019.1602569
- McIntyre, K. M., L. M. Conner, S. B. Jack, E. M. Schlimm, and **L. L. Smith**. 2019. Wildlife habitat condition in open pine woodlands: field data to refine management targets. *Forest Ecology and Management*. 437:282-294. <https://doi.org/10.1016/j.foreco.2019.01.045>.
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Research Notes

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Outreach Publications and Reports to Natural Resource Agencies: (Past 15 years)

- Smith, L. L.**, and J. M. Howze. 2016. Gopher Tortoise Line Transect Distance Sampling Workbook. Joseph W. Jones Ecological Research Center. 35pp.

Free, A. and **L. L. Smith**. 2012. Gopher Tortoise Survey, Population Evaluation, and Habitat Sustainability. Final Report to Georgia DNR, Forsyth, GA.

Smith, L. L., and J. M. Stober. 2010. Gopher Tortoise Survey, Ft. Gordon Military Reservation. Final report to The Nature Conservancy.

Smith, L. L., and J. M. Stober. H. E. Balbach, and W. D. Meyer. 2009. Gopher Tortoise Survey Handbook. U.S. Army Corps of Engineers. ERDC/CERL TR-09-7.

Smith, L. L., J. M. Stober, and J. M. Linehan. 2008. Gopher Tortoise Survey, Population Evaluation, and Habitat Suitability. Final Report to Georgia DNR.

Smith, L. L., and L. M. Conner. 2004. The Impacts of Non-Native and Native Subsidized Predators on Gopher Tortoise Populations. Final Report to the Jack Berryman Institute.

Smith, L. L., and L. M. 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.

Grants and Contracts: (Past 6 years)

Rothermel, B.B. and **L.L. Smith**. Walking versus riding: an assessment of relative effectiveness of two methods for conducting Gopher Tortoise burrow surveys. Florida Fish and Wildlife Conservation Commission. August 2019. \$6957.

Smith, L.L. Gopher tortoise surveys on private lands in Alabama. Longleaf Alliance March 2019, \$24,000.

Smith, L.L. Gopher tortoise surveys on Ft. Rucker. Fort Rucker (Alabama). Department of Defense. February 2019, \$114,095.

Smith, L.L. Line Transect Distance Sampling for Gopher Tortoises: Training Workshop. Alabama Department of Conservation and Natural Resources. Received in August 2018, \$3671.

Smith, L. L. Gopher tortoise conservation strategy workshop. U.S. Fish and Wildlife Service. August 01, 2017 - May 31, 2018. \$15,000. Received in 2017, \$8,764.

Smith, L. L. Gopher tortoise surveys and population evaluation. Florida Fish and Wildlife Conservation Commission. January 30, 2014 - June 30, 2016. \$300,000. Received in 2016, \$26,007.

- Smith, L. L.** Gopher tortoise surveys and population evaluation. Florida Fish and Wildlife Conservation Commission. January 30, 2014 - June 30, 2016. \$300,000. Received in 2015, \$125,961.
- Smith, L. L.** Gopher tortoise surveys and population evaluation. Florida Fish and Wildlife Conservation Commission. January 30, 2014 – June 30, 2016. \$300,000. Received in 2014, \$148,032.
- Smith, L. L.** Surveys of Barbour's map turtle and alligator snapping turtle in Georgia. Georgia Department of Natural Resources. October 31, 2013 – August 31, 2015. \$64,917. Received in 2015, \$20,962.
- Smith, L. L.** Surveys of Barbour's map turtle and alligator snapping turtle in Georgia. Georgia Department of Natural Resources. October 31, 2013 – August 31, 2015. \$64,917. Received in 2014, \$43,955.
- Conner, L. M., and **L. L. Smith**. Using wildlife habitat models to evaluate management endpoints for open pine woodland and savanna. U.S. Fish and Wildlife Service. March 15, 2014 – July 01, 2016. \$132,104. Received in 2016, \$6,906.
- Conner, L. M., and **L. L. Smith**. Using wildlife habitat models to evaluate management endpoints for open pine woodland and savanna. U.S. Fish and Wildlife Service. March 15, 2014 – March 15, 2016. \$132,104. Received in 2015, \$80,710.
- Conner, L. M., and **L. L. Smith**. Using wildlife habitat models to evaluate management endpoints for open pine woodland and savanna. U. S. Fish and Wildlife Service. March 15, 2014 – March 15, 2015. \$132,104. Received in 2014, \$44,489.
- Kirkman, L. K., and **L. L. Smith**. Isolated wetlands workshop. Environmental Protection Agency. September 01, 2013 – May 31, 2015. \$14,000. Received in 2014, \$2,622.
- Mitchell, R. J., L. K. Kirkman, L. M. Conner, **L. L. Smith**, J. Priddy, P. Yates, M. C. Mack, J. R. Walters, and R. D. Sutter. Developing dynamic reference models and a decision support framework for southeastern ecosystems: An integrated approach. Strategic Environmental Research and Development Program. March 26, 2009 – May 31, 2015. \$1,351,138. Received in 2015, \$18,691.
- Mitchell, R. J., L. K. Kirkman, L. M. Conner, **L. L. Smith**, J. Priddy, P. Yates, M. C. Mack, J. R. Walters, and R. D. Sutter. Developing dynamic reference models and a decision support framework for southeastern ecosystems: An integrated approach. Strategic Environmental Research and Development Program. March 26, 2009 – May 31, 2015. \$1,351,138. Received in 2014, \$64,761.
- Smith, L. L.** An evaluation of direct effects of heavy equipment use on gopher tortoise

burrows. Georgia Department of Natural Resources. July 31, 2013 – January 30, 2014. \$3,540. Received in 2013, \$3,540.

Smith, L. L. Gopher tortoise surveys and population evaluation. Georgia Department of Natural Resources. October 01, 2012 - May 31, 2013. \$66,637. Received in 2012, \$13,775.

Smith, L. L. Gopher tortoise surveys and population evaluation. U.S. Fish and Wildlife Service. August 01, 2012 - September 30, 2014. \$40,000. Received in 2014, \$12,092.

Smith, L. L. Gopher tortoise surveys and population evaluation. U.S. Fish and Wildlife Service. August 01, 2012 - September 30, 2013. \$40,000. Did not receive additional funds in 2012.

Smith, L. L. Linkages between upland habitat condition, burrowing vertebrates, and snake richness on protected areas in Georgia. Georgia Department of Natural Resources. July 15, 2011 – August 31, 2013. \$5,810. Did not receive any funds in 2011. Received in 2013, \$5,029.

Smith, L. L. Gopher tortoise surveys and population evaluation. Georgia Department of Natural Resources. October 01, 2012 - May 31, 2013. \$66,637. Received in 2013, \$52,862.

Recent Research Presentations (2017-2019):

Smith, L.L. Cryptic diversity in longleaf pine forests: 18 years of herpetology research at the Jones Center at Ichauway. Invited Speaker. Murray State, Department of Biological Sciences. October 2019.

Smith, L.L. Gopher tortoises and timber management. Invited Speaker, Georgia Forestry Association, Gopher Tortoise Symposium, Forsyth, GA. September 2019.

Smith, L.L. Cryptic diversity in longleaf pine forests: 18 years of herpetology research at the Jones Center at Ichauway. Invited Speaker. Georgia Sea Turtle Center, Jekyll Island, GA. August 2019.

Smith, L.L. Biological connectivity among geographically isolated wetlands: patterns across space and time. Invited Speaker, Auburn University, Department of Wildlife and Fisheries, Auburn, AL. February 2019.

Smith, L.L. Wildlife use of geographically isolated wetlands in forested versus agricultural landscapes. Southeastern Partners in Amphibian and Reptile Conservation, Invited speaker, Unicoi State Park, GA. February 2018.

Smith, L.L. Georgia Wetlands: Where Fire and Water Meet. Georgia Prescribed Fire Council, Tifton, GA. September 2018.

Smith, L.L. Implementation of a Candidate Conservation Agreement for the Gopher Tortoise: The Key Role of Stakeholders, Special Symposium on Strategies for Success in Amphibian and Reptile Conservation, Annual Conference of The Wildlife Society, Cleveland, OH. October 2018.

Smith, L.L., C. McElroy, C. Herteux, D. Gawlik, R.L. King, and A.L. Subalusky. Biological Connectivity among Geographically Isolated Wetlands: Patterns across Space and Time. American Water Resources Association, 2017 Spring Specialty Conference, Snowbird, UT. May 2017.

Lane, C.R. H.E. Golden, L.K. Kirkman, S.G. Leibowitz, D. Mushet, M.C. Rains, L.L. Smith. Putting Connectivity in Context: Overview on Geographically Isolated Wetland Research. American Water Resources Association, 2017 Spring Specialty Conference, Snowbird, UT. May 2017.

Subalusky, A., L.L. Smith, L. Fitzgerald, C. Atkinson, T. Glenn, R. Garrick Measuring Biological Connectivity at Different Scales. American Water Resources Association, 2017 Spring Specialty Conference, Snowbird, UT. May 2017.

Atkinson, A., S. McLeay, L.L. Smith, S.W. Golladay. Biotic Connections: Drivers of Community Dynamics, Nutrient Dynamics, and Subsidy Strength. American Water Resources Association, 2017 Spring Specialty Conference, Snowbird, UT. May 2017.

O'Donnell, K.M., W.J. Barichivich, K.A. Buhlmann, J. Chandler, K.M. Enge, A. Farmer, T.A. Gorman, C.A. Haas, P. Hill, J.B. Jensen, M. Mandica, J. Mott, J.G. Palis, L.L. Smith, S.C. Walls. Estimating local and range-wide occupancy dynamics for federally-listed flatwoods salamanders. Ecological Society of America, Portland, OR. August 2017.

Smith, L.L., Wildlife Use of Geographically Isolated wetlands in Forested versus Agricultural Landscapes. Georgia Water Resources Conference, Athens, GA. April 2017.

Smith, L.L. Biological Connectivity among Geographically Isolated Wetlands: Connectivity across space and time. Georgia Chapter, The Wildlife Society. Covington, GA. September 2017.

Recent Outreach Presentations (2019):

Smith, L.L. The Gopher Tortoise: A species in decline. Birdsong Nature Center, Thomasville, GA. June 2019.

Smith, L.L. Georgia's Gopher Tortoise Initiative. Smoke Summit, Jones Center at Ichauway, Newton, GA. February 2019.

Graduate Student Advisement (2004-current):

Tom Prebyl. Current. Estimating expected outcomes of conservation actions for gopher tortoise (*Gopherus polyphemus*). PhD. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA. (Graduate committee member).

Sara Piccolomini. Current. Evaluation of post-release movement and habitat selection behavior in reintroduced populations of the Eastern Indigo Snake (*Drymarchon couperi*). M.S. Department of Biological Sciences, Auburn University, Auburn, AL. (Co-advisor with David A. Steen and Mary Mendonça).

Philip Schulte. Current. Do Multiple Populations of Gopher Tortoises (*Gopherus polyphemus*) Remain Socially Isolated when Translocated? M.S. Department of Biological Sciences, Auburn University, Auburn, AL. (Graduate committee member).

Tara Crawford. Current. Towards a 'Decision-Making' Culture: Creating Public Value in Fish and Wildlife Management Contexts. PhD. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA. (Graduate committee member).

Daniel Knapp. 2019. Isolated wetlands as hot spots and hot moments. M.S. Department of Biological Sciences, University of Alabama, Tuscaloosa, AL. (Co-advisor with Carla Atkinson).

Chris Murphy. 2019. Quantifying the Value of Underground Vertebrate Refugia in the Longleaf Pine Ecosystem. M.S. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA. (Co-advisor with Steven Castleberry).

James Hunt. 2019. Improving Monitoring and Habitat Assessment for Gopher Frog (*Rana [Lithobates] capito*) Management in Georgia. M.S. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA. (Graduate committee member).

William Moore. 2019. Habitat use by gopher tortoises within forested sandhill and military test ranges on Eglin Air Force Base, Florida. M.S. Fisheries and Wildlife Sciences, Virginia Tech, Blacksburg, VA. (Graduate committee member).

- Namrata Bhandari. 2019. Impact of microhabitat selection on burrow distribution of nine-banded armadillos and Gopher tortoises in a pine plantation. M.S. Biology, Valdosta State University, GA. (Graduate Committee Member).
- Heather Gaya. 2018. Sampling design enhancement to gopher tortoises. M.S. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA. (Graduate Committee member with Clint Moore).
- Camille Herteux. 2018. Wading bird use of geographically isolated wetlands in the southeastern U.S. coastal plain. M. S. Florida Atlantic University, Boca Raton, Florida. (Co-advisor with Dale Gawlik).
- Scott McLeay. 2017. The role of larval anurans as consumers in ecosystem processes within geographically isolated wetlands in the southeastern United States. M.S. Department of Biological Sciences, University of Alabama, Tuscaloosa, AL. (Co-advisor with Carla Atkinson).
- Cara McElroy. 2016. Determining landscape connectivity through amphibian abundance, community composition, and gene flow. M.S. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA. (Co-advisor with Jeff Hepinstall-Cymerman).
- Alex Wright. 2016. Long-term population ecology and movement patterns of gopher tortoises (*Gopherus polyphemus*) in southwest Georgia. M.S. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA. (Co-advisor with Jeff Hepinstall-Cymerman).
- Michelina Dziadzio. 2015. Effects of predation on gopher tortoise (*Gopherus polyphemus*) nest and hatchling survival. M.S. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA. (Co-advisor with Steven Castleberry).
- Andrea Long. 2015. Effects of an invasive ant on invertebrates in the southeastern United States. PhD Wildlife Ecology and Conservation, University of Florida, Gainesville, FL. (Co-advisor with Robert McCleery).
- Rachel King. 2014. Spatial patterns of wetland use of aquatic turtles in the Coastal Plain of Georgia. M.S. Odum School of Ecology, University of Georgia, Athens, GA. (Co-advisor with Alan Covich).
- Ashley Rose Ballou. 2013. Aspects of gopher tortoise (*Gopherus polyphemus*) populations in Georgia: status, landscape predictors, juvenile movements and burrow use. M.S. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA. (Co-advisor with Steven Castleberry).

- Jess Gonynor McGuire. 2013. A multifaceted approach to evaluating gopher tortoise (*Gopherus polyphemus*) population health at selected sites in Georgia. PhD. Warnell School of Forestry and Natural Resources and Southeastern Cooperative Wildlife Disease Study, University of Georgia, Athens, GA. (Co-advisor with Michael Yabsley).
- Elizabeth Marie Schlimm. 2013. The influence of habitat structure on squamate species richness in the coastal plain of Georgia. M.S. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA. (Co-advisor with Steven Castleberry).
- Anna McKee. 2012. Correlations between community diversity and within-species diversity in an amphibian assemblage: potential processes and implications for conservation management. PhD. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA. (Co-advisor with John Maerz and Travis Glenn).
- David A. Steen. 2011. Wildlife restoration via forest management in fire-suppressed longleaf pine sandhills. PhD. Biological Sciences, Auburn University, Auburn, AL. (Co-advisor with Craig Guyer and Mike Conner).
- Sean C. Sterrett. 2009. The ecology and influence of land use on river turtles in southwest Georgia. M.S. Warnell School of Forestry, Natural Resources and the Environment, University of Georgia, Athens, GA. (Co-advisor with John Maerz and Sara Schweitzer).
- Gabriel Miller. 2008. Home range size, habitat associations and refuge use of the Florida pine snake, *Pituophis melanoleucus mugitus*, in southwest Georgia, U.S.A. M.S. Wildlife Ecology and Conservation, University of Florida, Gainesville, FL. (Co-advisor with Steve A. Johnson).
- Shannon K. Hoss. 2007. Spatial ecology of the Eastern diamond-backed rattlesnake (*Crotalus adamanteus*). M.S. Biological Sciences, Auburn University, Auburn, AL. (Co-advisor with Craig Guyer).
- Amanda Subalusky. 2007. The role of seasonal wetlands in the ecology of the American alligator. M.S. 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. PhD. Wildlife Ecology, University of Maine, Orono, ME. (Graduate committee member).
- Anna Liner. 2006. Wetland predators of amphibian distributions and diversity within the

southeastern U.S. Coastal Plain. M.S. 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. 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. Institute of Ecology, Conservation Ecology and Sustainable Development, University of Georgia, Athens, GA. (Graduate committee member).