

## **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)
- University of Alabama (Graduate faculty)
- Clemson University (Graduate Faculty)
- University of Florida (Courtesy faculty)

### Professional Memberships:

Herpetologists' League  
Society for the Study of Reptiles and Amphibians  
American Society of Ichthyologists and Herpetologists  
The Wildlife Society  
Southeastern Chapter of The Wildlife Society  
International Union for the Conservation of Nature, Species Survival Commission  
Gopher Tortoise Council

Publications:

- Smith, L.L., J.J. Apodaca, K. Barrett, J.E. Earl, J. Garrido, M. Grisnik, E.P. Hill, B. Morrison, S. Sheedy, D.B. Shepard, W.B. Sutton, and D.J. Stevenson. *In press*. Diversity, threats, and conservation of Southeastern U.S. amphibians. Pp. XX-XX. In H. Heatwole (Ed.) *Amphibian Biology*. Edition Chimaira, Frankfurt, Germany.
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### Research Notes:

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

- Smith, L.L. 2024. Foundations of Wetland Science Animal Module: Amphibians. *Wetland Science and Practice*. Society of Wetland Scientists.
- Mays, J., L.L. Smith, J. Godwin, and E.P. Hill. 2023. Barbour's Map Turtle IUCN Red List Assessment.
- Rutledge, B., J. Puhlick, M. Conner, K. McIntyre, L. Smith. 2022. Ichauway Fire. Jones Center Technical Report.
- 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.

#### Grants and Contracts: (Past 10 years)

- Martin, J.A., P. Dwivedi, K. Ghandi, J. Calabria, R. Rivero, J. Cannon, M. Conner, K. Klepzig, and L.L. Smith. 2024. Resilient Ecosystems & Communities with CRP. USDA, FSA. \$382,972.
- Smith, L.L. Amphibian fauna of Greenwood Ecological Reserve. Wade Research Foundation, January 2024. \$6659.

- Maerz, J.C., and L.L. Smith. Wetland restoration, monitoring and analyses. Georgia Department of Natural Resources, Cooperative State Wildlife Grant. March 2023. \$40,378.
- Smith, L.L. A Comparison of Gopher Tortoise Populations across two Physiographic Regions in Georgia. Wade Research Foundation, January 2023. \$13,285.
- Smith, L.L. Using survey data to estimate natural gopher tortoise densities by landcover type in Florida. Proposal submitted to Florida Fish and Wildlife Conservation Commission. June 2021. \$22,593.
- Smith, L.L. Habitat predictors of gopher tortoise abundance at Greenwood Plantation. Wade Research Foundation. October 2020. \$24,000.
- 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.

#### Recent Research Presentations (2017-2024):

- Smith, L.L., C.P. Shea, M.C. Dziadzio, J.M. Howze, K. Brown, and K. Richardson. 2024. Using gopher tortoise monitoring data to inform habitat restoration and translocations. Annual Meeting of the Gopher Tortoise Council. St. Petersburg, FL. November 2024.
- Smith, L.L., L.M. Conner, R.K. McIntyre, S.B. Jack, and E. Schlimm. Using wildlife habitat models to evaluate management endpoints for open longleaf pine woodland and savanna. North American Forest Ecology Workshop. Asheville, N.C. June 2024.
- Smith, L.L. Striped newt repatriation at Ichauway, Baker County, GA. Striped Newt Working Group Meeting, Tall Timbers research Station, Tallahassee, FL. January 2024.
- Smith, L.L. Keynote Address: Thirty-five years with tortoises- the short version. Annual Meeting of the Gopher Tortoise Council. Tifton, GA. November 2023.
- Smith, L.L. A case study of how wildlife monitoring can inform habitat and ecosystem restoration. Annual Meeting of The Wildlife Society. Louisville, KY. November 2023.
- Smith, L.L. Long term gopher tortoise monitoring at Ichauway: Implications for management. Annual Meeting of the Gopher Tortoise Council, Bruce, FL. November 2022.
- Smith, L.L. Burning questions: what research tells us about fire and reptiles. Southeastern Master Herpetologist Program. Virtual. October 2022.
- Smith, L.L. Long-term patterns of amphibian diversity, abundance, and nutrient export from small isolated wetlands. Joint Aquatic Sciences Meeting. Virtual. May 2022.

- Smith, L.L. Webinar: Using survey data to estimate natural gopher tortoise densities. Florida Fish and Wildlife Conservation Commission. Virtual, December 2021.
- Smith, L.L. Gopher tortoise monitoring: challenges, lessons learned, and added value. USFWS Conservation Science Program. Virtual. November 2021.
- Smith, L.L. How both short and long term wildlife research can inform management. Webinar via Southern Regional Extension Forestry. Virtual, November 2020.
- Smith, L.L. Burning Questions: What Research Tells Us about Fire and Reptiles. Invited speaker, Georgia Prescribed Fire Council. September 2020.
- Smith, L.L., J.M. Howze, J.S. Staiger, E.R. Sievers, D. Burr, K.M. Enge. 2020. Added Value: Gopher Tortoise Surveys Provide Estimates of Gopher Frog Abundance in Tortoise Burrows. Poster. Annual Meeting of The Wildlife Society. Virtual. September 2020.
- 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.

#### Outreach Presentations (2024):

- Smith, L.L. Research to inform habitat and ecosystem management: reptiles and prescribed fire, Ecological Forestry Workshop, Ichauway, Newton, GA November 2024.
- Smith, L.L. The Gopher Tortoise: A species in decline. Birdsong Nature Center, Thomasville, GA. June 2023.
- Smith, L.L. Snake Talk Podcast. Orianna Society. January 2023.

#### Graduate Student Advisement (2004-present):

- Samantha Smith. In progress. Gopher tortoise (*Gopherus polyphemus*) movement ecology in managed longleaf pine woodlands. PhD. Forestry and Environmental Conservation Department, Clemson University, SC. (Graduate committee member).
- Jade Samples. In progress. Habitat restoration and repatriation to restore threatened amphibian species in Georgia. M.S. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA. (Graduate committee member).
- Eva Kerr. In progress. Metapopulation dynamics of gopher frogs (*Rana capito*) in Georgia. M.S. Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA. (Graduate committee member).
- Garrett Lawson. 2024. Gopher tortoise nest-site selection at burrows and the influence of nest environment on hatching success. M.S. Department of Fish and Wildlife Conservation, Virginia Tech (Co-advised with Elizabeth Hunter).
- McKayla Susen. 2023. Multiscale habitat predictors of gopher tortoise occurrence in old growth and second growth longleaf pine forests. M.S. Warnell School of Forestry

- and Natural Resources, University of Georgia, Athens, GA. (Co-advised with Steven Castleberry).
- Nicole Yetke. 2023. Ecological Role of American Alligator (*Alligator mississippiensis*) Burrows Across Isolated Wetland Gradients: Microhabitats and Species Use. M.S. Department of Biology. University of Florida (Co-advised with Amanda Subalusky).
- Tara Crawford. 2023. 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).
- Sara Piccolomini. 2020. 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-advised with David A. Steen and Mary Mendonça).
- Philip Schulte. 2020. 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).
- Daniel Knapp. 2019. Isolated wetlands as hot spots and hot moments. M.S. Department of Biological Sciences, University of Alabama, Tuscaloosa, AL. (Co-advised 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-advised 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).
- 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-advised 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-advised 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-advised 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-advised with Jeff Hepinstall-Cymerman).
- Michalina 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-advised 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-advised with Robert McCleery and Mike Conner).
- 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-advised with Alan Covich).
- Ashley 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-advised 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-advised 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-advised 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. (Graduate Committee member).
- David A. Steen. 2011. Wildlife restoration via forest management in fire-suppressed longleaf pine sandhills. PhD. Biological Sciences, Auburn University, Auburn, AL. (Co-advised 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-advised 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-advised 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-advised 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-advised 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-advised 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).