

# BETSIE B. ROTHERMEL

Archbold Biological Station, FL ♦ brothermel@archbold-station.org ♦ (863) 465-2571 ext. 231

## EDUCATION

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Ph.D. University of Missouri-Columbia (Biological Sciences)	2003
M.S. Pennsylvania State University (Ecology, Conservation Biology option)	1994
B.S. Cornell University (Natural Resources)	1990

## PROFESSIONAL APPOINTMENTS

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Associate Research Biologist and Program Director Herpetology & Restoration Ecology Program, Archbold Biological Station, Venus, FL	2016-present
Assistant Research Biologist and Program Director Herpetology & Restoration Ecology Program, Archbold Biological Station, Venus, FL	2008-2016
Assistant Professor and Principal Investigator The Center of Excellence for Field Biology, Austin Peay State University, Clarksville, TN	2006-2008
Adjunct Faculty Odum School of Ecology, University of Georgia, Athens, GA	2006-2009
Postdoctoral Research Associate Savannah River Ecology Lab, University of Georgia, Aiken, SC	2003-2006
Resource Management Assistant State Parks & Historic Sites, Georgia Department of Natural Resources, Atlanta, GA	1998-1999
Director of Education (Jun 1997–Jun 1998), Volunteer Coordinator (Jan 1996–Jun 1997) Georgia Wildlife Federation, Conyers, GA	1996-1998
Stewardship Assistant The Nature Conservancy of Georgia, Atlanta, GA	1995
Assistant Scientist Versar, Inc. Columbia, MD	1990-1991

## PUBLICATIONS

<https://orcid.org/0000-0002-3951-2623>

† graduate student, + undergraduate or post-baccalaureate intern

50. Bolt MR, Bauder JM, Legare ML, Jenkins CL, **Rothermel BB**, Breining DR (2023) Eastern Indigo Snake (*Drymarchon couperi*) shelter site use in peninsular Florida, USA, and implications for habitat conservation. *Herpetol Conserv Biol* 18:362-373
49. Sonnier G, **Rothermel BB**, Tucker RC, Boughton EH (2023) Post-restoration plant community changes in grazed and ungrazed seasonal wetlands in Florida. *Wetlands* 43:55
48. Stemle L<sup>†</sup>, **Rothermel BB**, Searcy CA (2022) GPS technology reveals larger home ranges for immature Gopher Tortoises. *J Herpetol* 56:172-179

47. Castellón TD, **Rothermel BB**, Beck JL, Fort JL, O'Connor KM (2022) Divergent size-class distributions of Gopher Tortoise burrows in scrub and flatwoods habitats of peninsular Florida. *Chelonian Conserv Biol* 21:112-121
46. Earl JE, Blomquist SM, Harper EB, Hocking DJ, Hunter, Jr ML, Johnson JR, Osbourn MS, Patrick DA, Popescu VD, Rittenhouse TAG, **Rothermel BB** (2022) Amphibian biomass export from geographically isolated wetlands: temporal variability, species composition, and potential implications for terrestrial ecosystems. *Diversity* 14(3), 163
45. Kominoski JS, Fernandez M<sup>+</sup>, Breault P, Sclater V, **Rothermel BB** (2021) Fire severity and post-fire hydrology drive nutrient cycling and plant community recovery in intermittent wetlands. *Ecosystems* 25:265-278
44. Bauder JM, Breininger DR, Bolt MR, Legare ML, Jenkins CL, **Rothermel BB**, McGarigal K (2020) Movement barriers, habitat heterogeneity, or both? Testing hypothesized effects of landscape features on home range sizes in Eastern Indigo Snakes. *J Zool* 311:204-216
43. Castellón TD, Anderson CD, **Rothermel BB**, Beck JL (2020) Differential effects of elevation and microtopography on Gopher Tortoise burrow distributions in southern Florida. *Copeia* 108:140-150
42. Howell HJ<sup>†#</sup>, **Rothermel BB**<sup>#</sup>, White KN<sup>+</sup>, Searcy CA (2019) Gopher Tortoise demographic responses to a novel disturbance regime. *J Wildl Manage* 84:56-65 <sup>#joint first authors</sup>
41. McHugh SW<sup>+</sup>, White KN, **Rothermel BB**, Tuberville TD, Zamudio KR (2019) Nesting and false nesting behaviors of Gopher Tortoises (*Gopherus polyphemus*). *Herpetol Rev* 50:453-459
40. Yuan ML<sup>†</sup>, White KN, **Rothermel BB**, Zamudio KR, Tuberville TD (2019) Close kin mating, but not inbred parents, reduces hatching rates and offspring quality in a threatened tortoise. *J Evol Biol* 32:1152-1162
39. Howell HJ<sup>†</sup>, Mothes CC<sup>†</sup>, Clements SL<sup>†</sup>, Catania SV, **Rothermel BB**, Searcy CA (2019) Amphibian responses to livestock use of wetlands: new empirical data and a global review. *Ecol Applications* 29:e01976
38. White KN<sup>†</sup>, **Rothermel BB**, Zamudio KR, Tuberville TD (2018) Male body size predicts overall reproductive success but not within-clutch paternity patterns in Gopher Tortoises (*Gopherus polyphemus*). *J Heredity* 109:791-801
37. Bauder JM, Breininger DR, Bolt MR, Legare ML, Jenkins CL, **Rothermel BB**, McGarigal K (2018) Multi-level, multi-scale habitat selection in a wide-ranging, federally threatened snake. *Landscape Ecol* 33:743-763
36. Castellón TD, **Rothermel BB**, Bauder JM (2018) Gopher Tortoise burrow use, home range, seasonality and habitat fidelity in scrub and mesic flatwoods of southern Florida. *Herpetologica* 74:8-21
35. Robertson JM, Fitzpatrick SW, **Rothermel BB**, Chan LM (2017) Fire does not strongly affect genetic diversity or structure of a common treefrog in the endangered Florida scrub. *J Heredity* 109:243-252
34. Tucker RC, **Rothermel BB**, Daskin JH (2017) Preparing Florida pasture for grassland restoration: Seedling establishment after herbiciding and tilling. *Nat Areas J* 37:39-48

33. Bauder JM, Breining DR, Bolt MR, Legare ML, Jenkins CL, **Rothermel BB**, McGarigal K (2016) The influence of sex and season on conspecific spatial overlap in a large, actively-foraging colubrid snake. *PLoS ONE* 11(8):e0160033
32. Bauder JM, Breining DR, Bolt MR, Legare ML, Jenkins CL, **Rothermel BB**, McGarigal K (2016) Seasonal variation in Eastern Indigo Snake (*Drymarchon couperi*) movement patterns and space use in peninsular Florida at multiple temporal scales. *Herpetologica* 72:214-226
31. **Rothermel BB**, Miller DL, Travis ER, Gonynor McGuire JL, Jensen JB, Yabsley MJ (2016) Disease dynamics of red-spotted newts and their anuran prey in a montane pond community. *Dis Aquat Org* 118:113-127
30. Castellón TD, **Rothermel BB**, Nomani SZ (2015) A comparison of line-transect distance sampling methods for estimating Gopher Tortoise population densities. *Wildl Soc Bull* 39:804-812
29. Noss CF<sup>+</sup>, **Rothermel BB** (2015) Juvenile recruitment of Oak Toads (*Anaxyrus quercicus*) varies with time-since-fire in seasonal ponds. *J Herpetol* 49:364-370
28. Yuan ML<sup>+</sup>, Dean SH<sup>+</sup>, Longo AV, **Rothermel BB**, Tuberville TD, Zamudio KR (2015) Kinship, inbreeding, and fine-scale spatial structure influence gut microbiota in a hindgut-fermenting tortoise. *Mol Ecol* 24:2521-2536
27. Scott DE, Yanes Y, **Rothermel BB**, Pilgrim M, Romanek CS (2015) Efficacy of labeling wetlands with enriched <sup>15</sup>N to determine amphibian dispersal. *Wetlands* 35:349-356
26. Drake DL, Ousterhout BH, Johnson JR, Anderson TL, Peterman WE, Shulse CD, Hocking DJ, Lohraff KL, Harper EB, Rittenhouse TAG, **Rothermel BB**, Eggert LS, Semlitsch RD (2015) Pond-breeding amphibian community composition in Missouri. *Am Midland Nat* 174:180-187
25. Bateman PW, Fleming PA, Jones BC, **Rothermel BB** (2014) Defensive responses of Gopher Tortoises (*Gopherus polyphemus*) are influenced by risk assessment and level of habituation to humans. *Behaviour* 151:1267-1280
24. **Rothermel BB**, Castellón TD (2014) Factors influencing reproductive output and egg size in a southern population of Gopher Tortoises. *Southeastern Nat* 13:705-720
23. **Rothermel BB**, Travis ER, Miller DL, Hill RL, McGuire JL, Yabsley MJ (2013) High occupancy of stream salamanders despite high *Ranavirus* prevalence in a southern Appalachians watershed. *EcoHealth* 10:184-189
22. O'Connor JH<sup>+</sup>, **Rothermel BB** (2013) Distribution and population characteristics of African Jewfish and Brown Hoplo in modified wetlands in south Florida. *Am Midland Nat* 170:52-65
21. Jones MEB, Armien AG, **Rothermel BB**, Pessier AP (2012) Granulomatous myositis associated with a novel alveolate pathogen in an adult Southern Leopard Frog (*Lithobates sphenoccephalus*). *Dis Aquat Org* 102:163-167
20. Castellón TD, **Rothermel BB**, Nomani SZ (2012) Gopher Tortoise (*Gopherus polyphemus*) burrow densities in scrub and flatwoods habitats of peninsular Florida. *Chelonian Conserv Biol* 11:153-161
19. Semlitsch RD, Todd BD, Blomquist SM, Calhoun AJK, Gibbons JW, Gibbs JP, Graeter GJ, Harper EB, Hocking DJ, Hunter ML, Jr., Patrick DA, Rittenhouse TAG, **Rothermel BB** (2009) Effects of timber harvest on amphibian populations: understanding mechanisms from forest experiments. *BioScience* 59:853-862

18. Todd BD, Luhring TM<sup>†</sup>, **Rothermel BB**, Gibbons JW (2009) Effects of forest removal on amphibian migrations: implications for habitat and landscape connectivity. *J Appl Ecol* 46:554-561
17. Chatfield MWH, **Rothermel BB**, Brooks C, Kay J<sup>+</sup> (2009) Detection of *Batrachochytrium dendrobatidis* in amphibians from the Great Smoky Mountains of North Carolina and Tennessee, USA. *Herpetol Rev* 40:176-179
16. Vazquez VM<sup>†</sup>, **Rothermel BB**, Pessier AP (2009) Experimental infection of North American plethodontid salamanders with the fungus *Batrachochytrium dendrobatidis*. *Dis Aquat Org* 84:1-7
15. Todd BD<sup>†</sup>, **Rothermel BB**, Reed RN, Luhring TM<sup>†</sup>, Schlatter K<sup>+</sup>, Trenkamp L<sup>+</sup>, Gibbons JW (2008) Habitat alteration increases invasive fire ant abundance to the detriment of amphibians and reptiles. *Biol Invasions* 10:539-546
14. Graeter GJ<sup>†</sup>, **Rothermel BB**, Gibbons JW (2008) Habitat selection and movement of pond-breeding amphibians in experimentally fragmented pine forests. *J Wildl Manage* 72:473-482
13. Hocking DJ, Rittenhouse TAG, **Rothermel BB**, Johnson JR, Conner CA, Harper EB, Semlitsch RD (2008) Breeding and recruitment phenology of amphibians in Missouri oak-hickory forests. *Am Midland Nat* 160:41-60
12. **Rothermel BB**, Walls SC, Mitchell JC, Dodd, CK, Jr., Irwin L, Green DE, Vazquez VM<sup>+</sup>, Petranka JW, Stevenson DJ (2008) Widespread occurrence of the amphibian chytrid fungus *Batrachochytrium dendrobatidis* in amphibian populations in the southeastern USA. *Dis Aquat Org* 82:3-18
11. Graeter GJ<sup>†</sup>, **Rothermel BB** (2007) The effectiveness of fluorescent powdered pigments as a tracking technique for amphibians. *Herpetol Rev* 38:162-166
10. Gibbons JW et al. (25<sup>th</sup> of 25 authors) (2006) Remarkable amphibian biomass and abundance in an isolated wetland: implications for wetland conservation. *Conserv Biol* 20:1457-1465
9. **Rothermel BB**, Semlitsch RD (2006) Consequences of forest fragmentation for juvenile survival in spotted (*Ambystoma maculatum*) and marbled (*A. opacum*) salamanders. *Can J Zool* 84:797-807
8. Todd BD<sup>†</sup>, **Rothermel BB** (2006) Assessing quality of clearcut habitats for amphibians: effects on abundances versus vital rates in the Southern Toad (*Bufo terrestris*). *Biol Conserv* 133:178-185
7. **Rothermel BB**, Luhring TM<sup>+</sup> (2005) Burrow availability and desiccation risk of Mole Salamanders (*Ambystoma talpoideum*) in harvested versus unharvested forest stands. *J Herpetol* 39:619-626
6. **Rothermel BB** (2004) Migratory success of juveniles: a potential constraint on connectivity for pond-breeding amphibians. *Ecol Appl* 14:1535-1546
5. Rittenhouse TAG, Doyle MC<sup>+</sup>, Mank CR<sup>+</sup>, **Rothermel BB**, Semlitsch RD (2004) Substrate cues influence habitat selection by Spotted Salamanders. *J Wildl Manage* 68:1151-1158
4. Boone MD, Semlitsch RD, Fairchild JF, **Rothermel BB** (2004) Effects of an insecticide on amphibians in large-scale experimental ponds. *Ecol Appl* 14:685-691
3. **Rothermel BB**, Semlitsch RD (2002) An experimental investigation of landscape resistance of forest versus old-field habitats to emigrating juvenile amphibians. *Conserv Biol* 16:1324-1332
2. Boone MD, Bridges CM, **Rothermel BB** (2001) Growth and development of larval Green Frogs (*Rana clamitans*) exposed to multiple doses of an insecticide. *Oecologia* 129:518-524

1. **Balcom BJ**, Yahner RH (1996) Microhabitat and landscape characteristics associated with the threatened Allegheny Woodrat. *Conserv Biol* 10:515-525

#### NATURAL HISTORY AND GEOGRAPHIC DISTRIBUTION NOTES

- Bakley TD<sup>+</sup>, **Rothermel BB** (2021) *Gopherus polyphemus* (Gopher Tortoise), Plastic ingestion. *Herpetol Rev* 52:630-631
- Harman MEA<sup>+</sup>, **Rothermel BB**, Heupel Greene A (2020) *Anaxyrus quercicus* (Oak Toad), Aberrant coloration. *Herpetol Rev* 51:559-560
- Lawson GR<sup>+</sup>, Norden AW, **Rothermel BB** (2019) *Anolis cristatellus* (Crested Anole), Geographic distribution. *Herpetol Rev* 50:524
- White KN<sup>†</sup>, **Rothermel BB**, White MT (2017) *Aspidoscelis sexlineata sexlineata* (Eastern Six-lined Racerunner), Reproduction. *Herpetol Rev* 48:185-186
- White KN<sup>†</sup>, **Rothermel BB**, White MT (2017) *Sceloporus woodi* (Florida Scrub Lizard), Nest site. *Herpetol Rev* 48:200-201
- Rothermel BB**, Forsburg ZR<sup>+</sup>, Phillips NC<sup>+</sup> (2013) *Osteopilus septentrionalis* (Cuban Treefrog), Post-invasion spread. *Herpetol Rev* 44:656-657
- Rothermel BB**, Jensen JB, Camp CD, Schwaner TD (2007) *Desmognathus folkertsi* (Dwarf Black-bellied Salamander), Geographic distribution. *Herpetol Rev* 38:213

#### TECHNICAL REPORTS

- KA Voves, **Rothermel BB** (2023) Population Monitoring of Gopher Tortoises at Avon Park Air Force Range. Final Report for 2023 to USFWS. 58 pp.
- Rothermel BB**, Voves KA (2022) Population Monitoring of Gopher Tortoises at Avon Park Air Force Range. Final Report for 2022 to USFWS. 75 pp.
- Rothermel BB**, Fedders R (2022) Initial Outcomes of Gopher Tortoise Translocation at a Long-term Recipient Site in Southern FL. Final report to The Fish & Wildlife Foundation of Florida. 43 pp.
- Rothermel BB**, Fort JL, O'Connor KM, Beck JH (2017) Population Monitoring and Management of Gopher Tortoises and Eastern Indigo Snakes at Avon Park Air Force Range. Final Report for 2014-2017 to USAF. 142 pp.
- Castellón TD, **Rothermel BB** (2012) Population Survey and Monitoring of the Gopher Tortoise at Avon Park Air Force Range. Final Report for 2008-2011 to USAF. 253 pp.
- Rothermel BB**, Travis ER (2011) Establishment of an Amphibian Monitoring Program in the Southern Blue Ridge. Final Report for 2008-2010 to Georgia DNR Wildlife Resources Division. 151 pp.

#### RESEARCH GRANTS

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|---|-----------|
| U.S. Fish & Wildlife Service (2022-2023), PI<br>Population monitoring of Gopher Tortoises at Avon Park AFR, FL  | \$211,802 |
| Florida Fish & Wildlife Conservation Commission (2022), PI<br>Initial outcomes of Gopher Tortoise relocation at a long-term recipient site in southern FL | \$34,842  |

<b>Disney Conservation Fund (2021-2022), PI</b> High-resolution tracking of juvenile Gopher Tortoises (co-PI C Searcy)	\$50,000
<b>NSF DEB Bridging Ecology and Evolution (2021-2024), co-PI</b> Testing eco-evolutionary effects of genetic drift and gene flow in stressful environments (lead PI S Fitzpatrick; total award \$858,309)	\$105,830
<b>Florida Cattle Enhancement Fund (2019-2020), co-PI</b> What is the optimal grazing regime to maintain wetland forage production? (PI E Boughton)	\$16,257
<b>Florida Fish &amp; Wildlife Conservation Commission (2019), co-PI</b> Walking versus riding: an assessment of relative effectiveness of two methods for conducting Gopher Tortoise burrow surveys (co-PI L Smith)	\$6,792
<b>NSF DBI CSBR Natural History Collections (2015-2018), co-PI</b> Transforming accessibility to the rich, site-based, multi-taxon collection of Archbold Biological Station (PI H Swain, co-PIs M Deyrup, R Bowman, E Menges)	\$449,164
<b>Riverbanks Zoo Conservation Support Fund (2015-2016), co-PI</b> Mating system and male reproductive success in a high-density Gopher Tortoise population (co-PIs TD Tuberville, KR Zamudio, KN White)	\$3,722
<b>U.S. Department of Defense (2014-2017), PI</b> Population surveys of Gopher Tortoises and Eastern Indigo Snakes at Avon Park AFR, FL	\$377,222
<b>Riverbanks Zoo Conservation Support Fund (2014-2015), co-PI</b> Characterizing social interactions among Gopher Tortoises: a pilot study with implications for translocation and long-term conservation (co-PI TD Tuberville)	\$4,800
<b>Disney Worldwide Conservation Fund (2012-2014), PI</b> Restoring habitat for Gopher Tortoises	\$74,900
<b>U.S. Department of Defense (2008-2011), PI</b> Population monitoring of Gopher Tortoises at Avon Park AFR, FL	\$394,613
<b>Georgia DNR Nongame Conservation Section (2008-2010), PI</b> Establishment of an amphibian monitoring program in the Southern Blue Ridge of GA	\$101,529
<b>U.S. National Park Service Appalachian Highlands Research Grant (2007), PI</b> Prevalence and potential threat of an emerging disease to amphibians in the Appalachian Highlands (co-PI M Chatfield)	\$2,000
<b>Declining Amphibian Populations Task Force Seed Grant (2006), PI</b> Assessing susceptibility of North American plethodontid salamanders to chytrid fungal infection (co-PI VM Vazquez)	\$2,000
<b>U.S. National Park Service (2004-2007), co-PI</b> Incidence of chytrid fungal parasitism in southeastern national parks (PI JW Gibbons)	\$46,243
<b>NSF DEB Collaborative Research (2003-2008), co-PI for U. Georgia award</b> Land-use practices and persistence of amphibian populations (PI RD Semlitsch, co-PIs ML Hunter, JP Gibbs, JW Gibbons; total award \$1,200,000)	\$283,452

## RESTORATION FUNDING

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USDA Wetlands Reserve Program (2017-2018), Project Manager Landowner agreement for gully repair - Cutthroat Seep WRP on the Archbold Reserve	\$81,216
USFWS Partners for Fish and Wildlife (2015-2024), co-Project Manager Sandhill restoration and management for Gopher Tortoises at Archbold Biological Station	\$10,000
USDA Wetlands Reserve Program (2014-2018), Project Manager Landowner agreement for wetland restoration - Cutthroat Prairie WRP and East Prairie WRE on the Archbold Reserve	\$554,615
USDA Wetlands Reserve Program (2013-2017), Project Manager Landowner agreement for wetland restoration enhancements - Mary's Creek, Frances Creek, and Cutthroat Seep WRPs on the Archbold Reserve	\$497,360
US EPA Regional Environmental Priorities (2007-2008), co-Project Manager Enhancement of watershed protection measures in the karst region of Pleasant Grove Creek, KY	\$75,000

## CONSERVATION & PUBLIC OUTREACH ACTIVITIES

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- ◆ Contributed to USFWS Species Status Assessment for Gopher Tortoises (2021-2022)
- ◆ Hosted 40<sup>th</sup> Annual Meeting of the Gopher Tortoise Council at Archbold Biological Station (2018)
- ◆ Hosted regional meeting on tortoise ecology and management on central Florida ridglands (2015)
- ◆ Gave presentations to Lake Wales Ridge Ecosystem Working Group (2010) and Central Florida Invasive Species Workshop (2014), as well as multiple public lectures on reptile and amphibian ecology and conservation since 2013
- ◆ Supervised intern-led production of a three-part video series *Getting to Know the Gopher Tortoise* [<https://www.youtube.com/user/ArchboldExpeditions>]
- ◆ Co-wrote and produced film *Queen of Red Hill: A Remarkable Tale of Tortoises and Conservation in Florida* [<https://www.youtube.com/watch?v=r8X18LeBc4I>]
- ◆ During 7 years as Chair of the Conservation Committee (2007-2015) for Society for the Study of Amphibians & Reptiles, I coordinated and helped draft and distribute SSAR's comments and letters advocating greater protection for imperiled species and actions to address threats such as overharvesting, habitat loss, agricultural chemicals, and introduction of fungal pathogens

## INVITED PRESENTATIONS (last 10 years)

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Kennesaw State University, Ecology, Evolution, and Organismal Biology seminar	2023
Florida Fish and Wildlife Conservation Commission, Gopher Tortoise Research Symposium	2022
Ohio University, Biological Sciences seminar	2020
University of Florida, Wildlife Ecology and Conservation seminar	2019
HL/SSAR/ASIH Symposium – The Science, Management, and Policy of Amphibian Conservation: Extending the Legacy of Ray Semlitsch	2017
The Wildlife Society Symposium – Effects of Wildland Fire and Fire Management on Herps	2013

## CONFERENCE PRESENTATIONS (last 10 years)

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Landscape Conservation Summit, Ft. Myers, FL (talk)	2023
Gopher Tortoise translocation outcomes and implications for landscape conservation in FL: current research and knowledge gaps	
Gopher Tortoise Council 44 <sup>th</sup> Annual Meeting (talk)	2022
Initial outcomes of Gopher Tortoise translocation at a long-term recipient site in southern FL	
Joint Meeting of Ichthyologists & Herpetologists (talk)	2022
Relative body size and genetic relatedness affect female social networks in Gopher Tortoises	
Gopher Tortoise Council 43 <sup>rd</sup> Annual Meeting (talk)	2021
Seasonal and habitat-specific growth rates of juvenile Gopher Tortoises in south-central FL	
Joint Meeting of Ichthyologists & Herpetologists (poster)	2021
Gopher Tortoise abundance and juvenile site-occupancy on a military training range in southern FL	
Gopher Tortoise Council 42 <sup>nd</sup> Annual Meeting (poster)	2020
Restoring sandhill and managing ruderal habitat for Gopher Tortoises at Archbold: Initial results and lessons learned	
Joint Meeting of Ichthyologists & Herpetologists (talk)	2019
Demographic consequences of habitat alteration and inbreeding for a Gopher Tortoise population in southern FL	
Gopher Tortoise Council 39 <sup>th</sup> Annual Meeting (talk)	2017
Gopher Tortoise abundance and patterns of juvenile recruitment in scrub communities at Avon Park Air Force Range, FL	
Joint Meeting of Ichthyologists & Herpetologists (talk)	2016
Patterns of reproductive output in Gopher Tortoises inhabiting modified sandhill in southern FL	

## TEACHING

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### COURSES TAUGHT

Diversity of Life, Austin Peay State University – lecture and lab sections	2006-2008
Introductory Biology, University of Missouri – lab sections	1999

### INVITED LECTURES

Wabash College, Advanced Ecology	2018, 2020, 2022
Eckerd College, Biology of Amphibians & Reptiles	2019
Concordia College, Conservation Biology	2017
University of South Florida – St. Petersburg, Herpetology	2016
Boston University, Herpetology	2014, 2016
Bridgewater College, Environmental Science	2011
University of Tampa, Water, Wetlands, & Wildlife	2011
University of Florida, Conservation of Amphibians & Reptiles	2009, 2012
University of Tennessee-Knoxville, Amphibian Ecology and Conservation	2007
Davidson College, Amphibian and Reptile Conservation	2004

## MENTORING

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### GRADUATE AND POSTDOC ADVISING

Leyna Stemle	Ph.D. U. Miami	Thesis committee	2020-present
K. Nicole White	M.S. U. Georgia	Thesis committee	2015-2017
Audrey Wilson	M.S. U. Florida	Thesis committee	2015-2016
Caitlyn Debevec	M.S. U. Central Florida	Thesis committee	2014-2015
Traci D. Castellón	Ph.D. U. Florida	Postdoc mentor	2009-2011
Tyler Lawson	M.A. College of Charleston	Thesis committee	2008-2009
Lacey Robertson	M.S. Austin Peay State U.	Thesis advisor	2007-2008
Gabrielle Graeter	M.S. U. Georgia	Thesis committee	2004-2005

### UNDERGRADUATE/POST-BACCALAUREATE RESEARCH PROJECTS

Nicole Bednarik	B.A. Macalester College	ABS research intern	2023
Theresa Fonseca	B.S. U. Chicago	ABS research intern	2023
Carolyn Jessop	B.S. Clarkson U.	ABS research intern	2023
Jack Christie	B.S. Oregon State U.	ABS research intern	2022
Emily Jones	B.A. Bryn Mawr College	ABS research intern	2022
Chelsea Moore	M.S. SUNY Buffalo State	ABS research intern	2021
Dylan Winkler	B.S. U. Texas-Austin	ABS research intern	2020
Garrett Lawson	B.S. Arkansas Tech U.	ABS research intern	2019
Madison Harman	B.S. Duke U.	ABS research intern	2018
Simon King	B.S. Appalachian State U.	ABS research intern	2017
Elizabeth Shadle	B.S. U. Rhode Island	ABS research intern	2017
Jonathan Carcione	B.S. Princeton U.	ABS research intern	2016
Ethan Royal	B.S. Stetson U.	ABS research intern	2016
Amanda Chang	B.S. Princeton U.	ABS research intern	2015
Harrison Goldspiel	B.S. Brandeis U.	ABS research intern	2014
Gabriel Kamener	B.S. U. Florida	ABS research intern	2014
Michael Yuan	B.S. Cornell U.	ABS research intern	2014
Samantha Dean	B.S. Cornell U.	ABS research intern	2013
Livvy Jones	B.S. Washington U. St. Louis	ABS research intern	2013
Kevin Moses	B.S. Howard U.	ABS research intern	2012
Clay Noss	B.S. U. Florida	ABS research intern	2012
Alexander Biggs	B.S. U. N. Carolina-Wilmington	ABS research intern	2011
Susan Caster	B.S. U. Georgia	ABS research intern	2011
Jason O'Connor	B.S. U. Miami	ABS research intern	2011
Zachery Forsburg	M.S. Shippensburg U.	ABS research intern	2010
José Lopez	B.S. SUNY-ESF	ABS research intern	2010
Naima Phillips	B.A. Lewis & Clark College	ABS research intern	2010
Ray Grater	B.S. Kutztown U.	ABS research intern	2009
Rachel Mahan	B.S. U. Missouri	SREL REU student	2005
Lester Trenkamp	B.S. Southern Utah U.	SREL REU student	2005
Karen Schlatter	B.S. McGill U.	SREL REU student	2005
Thomas Luhring	B.S. U. Georgia	SREL REU student	2004
Aaliyah Green	B.S. Rutgers U.	SREL REU student	2004

### DISNEY-FUNDED SUMMER TORTOISE INTERNS (2013-2015)

Candida Dale, Samantha Dillon, Sophia Finn, Gabriel Kamener, Ethan Noel, Brianna Price, Nicole Salvatico, Lexi Siegle, Zachary Steele

## **ADMINISTRATIVE RESPONSIBILITIES**

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**ARCHBOLD ANIMAL USE COMMITTEE:** As Chair of this committee, I oversee use of vertebrate animals for research, including coordinating review of animal use applications by visiting investigators.

**VISITING RESEARCH & INSTRUCTION:** As director of the Herpetology & Restoration Ecology Program, I regularly host visiting scientists and classes using Archbold as a field site for research or instruction related to these program areas, thereby facilitating use of the field station for many studies on which I am not a co-PI.

**COLLECTIONS MANAGEMENT:** I serve as curator of Archbold's wet collection of ~2,600 reptile and amphibian specimens and ~200 fish specimens.

## **PROFESSIONAL ACTIVITIES**

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Reviewer for the following journals (since 2016): *Animal Conservation*, *Behavioral Ecology*, *Biological Invasions*, *Copeia*, *Diseases of Aquatic Organisms*, *Florida Scientist*, *Ecological Applications*, *Herpetologica*, *Herpetological Conservation and Biology*, *Herpetological Review*, *Journal of Wildlife Management*, *Natural Areas Journal*, *Southeastern Naturalist*

Board Member, C. H. Wharton Conservation Center	2015-present
Chair, Student Awards Committee, Gopher Tortoise Council	2020-present
Co-Chair and Past Co-Chair, Gopher Tortoise Council	2017-2020
Chair, Student Poster Award Committee, Society for the Study of Amphibians & Reptiles	2018-2020
Raymond D. Semlitsch Research Award Committee, Herpetologists' League	2016-2022
Chair, Conservation Committee, Society for the Study of Amphibians & Reptiles	2007-2015

## **PROFESSIONAL SOCIETY MEMBERSHIPS**

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Ecological Society of America	American Society of Ichthyologists & Herpetologists
Society for Conservation Biology	Society for the Study of Amphibians & Reptiles
The Wildlife Society	Gopher Tortoise Council