

Virginie ROLLAND

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EDUCATION

- 2008 Ph.D. in Ecology and Population Dynamics
 University Pierre and Marie Curie Paris VI, France
 Centre d'Études Biologiques de Chizé, Chizé, France
- 2005 M.S. in Ecology, Evolution, Biometry
 University Claude Bernard Lyon I, France
 University of Leicester, UK (Erasmus program)
- 2003 B.S. in Population Biology
 University Claude Bernard Lyon I, France
 Emphasis in Biostatistics

PROFESSIONAL EXPERIENCE

- 2022 – present Full Professor of Quantitative Wildlife Ecology
 Department of Biological Sciences
 Arkansas State University, Jonesboro, AR
- 2017 – 2022 Associate Professor of Quantitative Wildlife Ecology
 Department of Biological Sciences
 Arkansas State University, Jonesboro, AR
- 2011 – 2017 Assistant Professor of Quantitative Wildlife Ecology
 Department of Biological Sciences
 Arkansas State University, Jonesboro, AR
- 2009 – 2010 Postdoctoral Research Associate
 Department of Wildlife Ecology and Conservation
 University of Florida, Gainesville, FL
- 2008 – 2009 Research Associate
 Centre d'Études Biologiques de Chizé, Chizé, France

PUBLICATIONS

Note: Underlined names are students (^U if undergraduate). Asterisks indicate corresponding authors.

- In Press 52. **Rolland V.*** Severe winter storms bring severe population changes. *Nature Ecology and Evolution* (invited November 2025)
- 2025 51. Terry J.*, Davis I.V^U, **Rolland V.**, and Neuman-Lee LA. An exploratory look at functional responses to a second antigen injection in a freshwater turtle. *Integrative and Comparative Biology* 65: 1853–1870.
50. Terry J.*, **Rolland V.**, and Neuman-Lee L. Sex-specific immune component contribution to *Escherichia coli* = killing ability in *Trachemys scripta elegans*. *Journal of Experimental Biology* 228: jeb251275.

49. Terry J.*, Davis I.V.^U, **Rolland V.**, and Neuman-Lee LA. Characterizing primary immune response against three pathogens in a reptile. *Integrative and Comparative Biology* 65: 1781–1795.
48. Reusche M.*, R.L. Johnson, and **Rolland V.** Distribution and habitat characteristics of the Ozark pocket gopher, *Geomys bursarius orzarkensis*. *Southeastern Naturalist* 24: 24–36.
- 2024 47. Sharrow T.*, Boves T., and **Rolland V.** Nest box cameras provide insight into causes of nest failure for American Kestrels. *Journal of Raptor Research* 58: 1–6.
46. **Rolland V.***, Balenger S, Grindstaff J, and Siefferman L. Natural selection after severe winter favors larger and duller bluebirds. *American Naturalist* 204: 561–573.
45. Trusty M.^U, Trusty A.^U, and **Rolland V.*** Lithium grease as an effective predator guard for Eastern Bluebird nests. *Southeastern Naturalist* 23: 401–413.
44. Knutie S.*, Bahouth R., Bertone M., ..., **Rolland V.** ..., and Albery G. Understanding spatiotemporal effects of food supplementation on host-parasite interactions using community-based science. *Journal of Animal Ecology* 93: 1830–1840.
43. Schroeder J.^U, Worm A., Sweet A., and **Rolland V.*** Genomic data reveal unexpected relatedness between a brown female Eastern Bluebird and her brood. *Ecology and Evolution* 14: e10851.
- 2023 42. Kearny V., Perry R., Rish T., and **Rolland V.*** Microhabitat of *Myotis leibii* summer roosts at the southwestern periphery of their range. *Canadian Journal of Zoology* 101: 754–763
41. Miller S.J., Dykstra C.R.*, Simon M.M., Hays J.L., **Rolland V.**, and Bednarz J.C. Sibling aggression, feeding rates, and hatch rank of nestling red-shouldered hawks (*Buteo lineatus*). *Journal of Raptor Research* 57: 1–15.
- 2022 40. Harrod S.E.*, and **Rolland V.** Using citizen science to determine if songbird nesting parameters fluctuate in synchrony. *Plos One* 17: e0277656
39. Scherman S.S., Risch T.S., and **Rolland V.***. Fall and winter activity of two bat species in response to winter flooding and decreasing temperature. *Global Ecology and Conservation* 38: e02276.
38. Kearny V.M., Perry, R.W., Risch T.S., and **Rolland V.***. Distribution and roost site selection of eastern small-footed bats (*Myotis leibii*) in mountains of west-central Arkansas. In press for *Southeastern Naturalist* 21: 74–92.
37. Hampton R.M., Atungulu G., **Rolland V.**, Wilson, S.A., and McKay T*. Effects of infrared radiation on germination of long grain rice. *Applied Engineering in Agriculture* 38: 129–133.
36. **Rolland V.***, Schratz S.A, Istvanko D.R., and Harrod S.E. Evening bats (*Nycticeius humeralis*) use bird nest boxes as day roosts in Northeastern Arkansas. *American Midland Naturalist* 187: 84–89.
- 2021 35. Harrod S.E.*, De Bellis C., Trusty A.^U, and **Rolland V.** Eastern Bluebirds (*Sialia sialis*) rear four broods to apparent fledging in northeastern Arkansas. *The Wilson Journal of Ornithology* 133: 358–364.

34. Wynia A.L.*, **Rolland V.** and Bednarz J.C. Rat snakes, cowbirds, and vines lower passerine nest survival in remnant bottomland hardwood forests in east-central Arkansas, USA. *Avian Conservation and Ecology* 16: 19.
33. Polyakov A.Y.*, Tietje W.D., Srivathsa A., **Rolland V.**, Hines J.E., and Oli M.K. Multiple coping strategies maintain stability of a small mammal population in resource-restricted environments. *Ecology and Evolution* 11: 12529–12541.
32. Chaudhary V*., Tietje W.D., Polyakov A.Y., **Rolland V.**, and Oli M.K. Factors driving California pocket mice (*Chaetodipus californicus*) population dynamics. *Journal of Mammalogy* 102: 1353–1354.
31. **Rolland V.***, Tietje W.D., Polyakov A.Y., Chaudhary V., and Oli M. (2021) Climatic factors and population demography in big-eared woodrat, *Neotoma macrotis*. *Journal of Mammalogy* 102: 731–742.
30. Smart W.A., Collier N, and **Rolland V***. (2021) Non-native rats detected on uninhabited southern Grenadine islands with seabird colonies. *Ecology and Evolution* 11: 4172–7181.
29. Harrod S.E.*, and **Rolland V.** (2021) Factors associated with attitudes and knowledge of first-semester college students toward climate change. *BioScience*. 71: 415–425.
- 2020 28. Moseley S.C.^U, Harrod S.E., and **Rolland V.*** (2020) Tufted Titmice rear a mixed brood to apparent fledging in Northeast Arkansas. *Wilson Journal of Ornithology* 132: 197–202.
27. Smart W.A., Collier N., and **Rolland V.*** (2020) A survey of Grenadians on seabird harvest in the Grenada Grenadines. *Journal of Caribbean Ornithology* 33: 67–77.
26. Harrod S.E.*, and **Rolland V.** (2020) Demographic responses of Eastern Bluebirds to climatic variability in Northeastern Arkansas. *Population Ecology* 62: 317–331.
25. **Rolland V.**, Nepshinsky M., Windhoffer E.D., Liechty J.S., Minor A.K., and Pierce A.R.* (2020) Foraging areas and movements of Royal Tern *Thalasseus maximum* breeding at the Isles Dernieres Barrier Islands Refuge, Louisiana, USA. *Marine Ornithology* 48: 162–169.
- 2019 24. Wynia A.L.*, **Rolland V.**, and Jiménez J.E. (2019) Improved Campephilina detection: An experiment conducted with the Magellanic Woodpecker. *Ecology and Evolution* 9: 11724–11733.
23. Kwon Y., Doty A.C.*, Huffman M.L., **Rolland V.**, Istvanko D.R., and Risch T.S. (2019) Implications of forest management practices for sex-specific habitat use by *Nycticeius humeralis*. *Journal of Mammalogy* 100: 1263–1273.
22. **Rolland V.***, Furfey B.C., and Pierce A. (2019) Foraging movements of Black Skimmer (*Rynchops niger*) nesting on the Isles Dernieres Barrier Island Refuge, Louisiana. *Waterbirds* 42: 95–99.
21. Hampton R.M., Atungulu G.G., Odek Z., **Rolland V.**, Siebenmorgen T.J., Wilson S.A., and McKay T.* (2019) Assessment of *Rhyzopertha dominica* (F.) progeny and feeding damage on rice dried with infrared radiation. *Journal of Stored Products Research* 81: 69–75.

20. Srivathsa A., Tietje W.D., **Rolland V.**, Polyakov A.Y., and Oli M.K.* (2019) Climatic drivers of pinyon mouse *Peromyscus truei* population dynamics in a resource-restricted environment. *Population Ecology* 61: 122–131.
- 2018 19. Tietje W.D., Polyakov A.Y., **Rolland V.**, Hines J.E., and Oli M.K.*. (2018) Climatic influences on demography of the California mouse (*Peromyscus californicus*) in semi-arid oak woodland. *Journal of Mammalogy* 99: 1149–1158.
- 2017 18. Schratz S.*, **Rolland V.**, Phillips J., Crosset R., Richardson D., and Risch T.S. (2017) Bat Occupancy Estimates and Species Richness at Cache River National Wildlife Refuge. *Journal of Arkansas Academy of Science* 71: Article 20.
17. Moore P.M., Morris K., Risch T.S., and **Rolland V.*** (2017) Habitat Use of Female Gray Bats Assessed using Aerial Telemetry. *Journal of Wildlife Management* 81: 1242–1253.
- 2016 16. Istvanko D., Risch T.S., and **Rolland V.*** (2016) Sex-specific foraging habits and roost characteristics of the evening bat (*Nycticeius humeralis*) in an intensively managed forest in north-central Arkansas. *Journal of Mammalogy* 97: 133–1344.
15. Elston J., **Rolland, V.*** and Trauth S.E. (2016) Urban ditch characteristics associated with high turtle abundance and species richness. *Herpetological Conservation & Biology* 11: 132–141.
14. Dodd K.*, **Rolland V.**, and Oli M.K. (2016) Consequences of individual removal on persistence of a protected population of long-lived turtles. *Animal Conservation* 19:369–379.
- 2015 13. Fowler Neal J.A. and Rolland V.* (2015) A Potential Case of Brood Parasitism by Eastern Bluebirds on House Sparrows. *Southeastern Naturalist* 14: N31–N34.
- 2014 12. Bobowski M.M.*, **Rolland V.**, and Risch T.S. (2014) Abundance and distribution of overwintering Red-tailed Hawks and American Kestrels in an agricultural landscape in northeastern Arkansas. *Journal of Raptor Research* 48: 273–279.
- 2012 11. Barbraud C.*, **Rolland V.**, Jenouvrier S., Nevoux M., Delord K., and Weimerskirch H. (2012) Effects of climate change and fisheries bycatch on Southern Ocean seabirds: a review. *Marine Ecology Progress Series* 454: 285–307.
10. Brischoux F.*, **Rolland V.**, Bonnet X., Caillaud M., and Shine R. (2012) Effects of oceanic salinity on body condition in sea snakes. *Integrative and Comparative Biology* 52: 235–244.
- 2011 9. Cooke S.*, Casper, A., Brischoux F., Catford J., Bonada N., Schäfer R., Arlinghaus R., and **Rolland V.** (2011) Perspectives from early career researchers on the publication process in ecology – a response to Statzner & Resh (2010). *Freshwater Biology* 56: 2405–2412.
8. **Rolland V.***, Hostetler J.A., Hines C., Johnson F., Percival F., and Oli M. (2011) Effect of harvest and climate on population dynamics of northern bobwhites in south Florida. *Wildlife Research* 38: 396–407.
7. **Rolland V.***, F., Hostetler J.A., Hines C., Percival F., and Oli M. (2011) Factors influencing reproductive performance of northern bobwhite in south Florida. *European Journal of Wildlife Research* 57: 717–727.

- 2010
6. Barbraud C.*, Rivalan P., Inchausti P., Nevoux M., **Rolland V.**, and Weimerskirch H. (2010) Contrasted demographic responses facing future climate change in Southern Ocean seabirds. *Journal of Animal Ecology* 80: 89–100.
 5. **Rolland V.***, Johnson F., Hostetler J.A., Hines C., Percival F., and Oli M. (2010) Impact of harvest on survival of a heavily hunted game bird population. *Wildlife Research* 37: 392–400.
 4. **Rolland V.***, Weimerskirch H., and Barbraud C. (2010) Relative influence of fisheries and climate on the demography of four albatross species. *Global Change Biology* 16: 1910–1922.
- 2009
3. **Rolland V.***, Barbraud C., and Weimerskirch H. (2009) Assessing the impact of fisheries, climate and disease on the dynamics of the Indian Yellow-nosed Albatross. *Biological Conservation* 142: 1084–1095.
 2. **Rolland V.***, Nevoux M., Barbraud C., and Weimerskirch H. (2009) Respective Impact of Climate and Fisheries on the Growth of an Albatross Population. *Ecological Applications* 19: 1336–1346.
- 2008
1. **Rolland V.***, Barbraud C., and Weimerskirch H. (2008) Combined effects of fisheries and climate on a migratory long-lived marine predator. *Journal of Applied Ecology* 45: 4–13.

Other

Rolland V.* and Sharrow T. When unhatched eggs become a snack for American kestrels and their competitors... (2025) *Bluebird* 47 (4): 27–28.

Rolland V.* Eastern bluebirds that survived the deadly winter of 2021 have a new look. (2025) *Bluebird* 47 (2): 19–20.

Rolland V.* and Fowler Neal J.A. An eastern bluebird laid an egg in a house sparrow nest. (2015) *Bluebird* 37: 10–11.

PRESENTATIONS

Note: *presenter; student; ^UUndergraduate student; [^]student award.

Oral Presentations

- 2025
60. Terry J.*, Davis I.^U, Field E., Hartzheim A., **Rolland V.**, and Neuman-Lee L Immune-endocrine function interactions in a wild freshwater turtle. *International Society of Wildlife Endocrinology*, Saint Louis, Missouri, November 3–6, 2025.
 59. **Rolland V.*** Are bluebirds equipped to face climate change? *Audubon Society of Central Arkansas*, Virtual, September 11, 2025 (Invited, Available on [YouTube](#)).
 58. Terry J.L.*, Davis I.V.^U, **Rolland V.**, and Neuman-Lee L.A. Characterizing immune responses in a reptile. *Society for Integrative and Comparative Biology* 65: S516, Atlanta, Georgia, January 3–7, 2025.
 57. Terry J.L.*, Davis I.V.^U, **Rolland V.**, and Neuman-Lee L.A. Assessing secondary immune responses to three antigens in a freshwater turtle. *Society for Integrative and Comparative Biology* 65: S516, Atlanta, Georgia, January 3–7, 2025.

- 2024
56. Sharrow T.S.*, Boves T., and **Rolland V.** American Kestrels in northeast Arkansas: nest box use, nest success, and impacts on potential agricultural pests. *American Ornithological Society*, Estes Park, Colorado, October 1–5, 2024.
55. Reusche M.R.*, Connior M.B., Gustafson K.D., Johnson R.L., and **Rolland V.** Distribution, dispersal, and genetic diversity of the Ozark pocket gopher. *Arkansas Wildlife Action Plan Symposium*, September 9–10, 2024.
54. Reusche M.R.*, Warr H., Gustafson K.D., Johnson R.L., **Rolland V.**, and Sweet. A.D. Scratching at the phylogeny of the pocket gopher lice: assessment for Arkansas’s endemic mammal *Geomys bursarius ozarkensis*. *American Society of Parasitologists*, Denver, Colorado, June 14–17, 2024.
53. Reusche M.R.*, Connior M.B., Johnson R.L., and **Rolland V.** Natal dispersal of Arkansas’ endemic mammal, the Ozark pocket gopher. *American Society of Mammalogists*, Boulder, Colorado, June 7–11, 2024.
52. Reusche M.R.*, Warr H., Gustafson K.D., Johnson R.L., **Rolland V.**, and A.D. Sweet. Scratching at the phylogeny of the pocket gopher lice: assessment for Arkansas’s endemic mammal *Geomys bursarius ozarkensis*. *Southwest Association of Parasitologists*, Oklahoma City, Oklahoma, April 11–13, 2024. **David A. Becker Memorial Award**
- 2023
51. Lamb A.*, Perry R.W., and **Rolland V.** Tricolored bats overwinter in thermally stable box culverts in an Arkansas region without caves. *North American Society for Bat Research Conference*, Winnipeg, Canada, October 11–14, 2023.
50. Terry J.*, Vanoven A.^U, Janney C., Rolland V., Poo S., and Neuman-Lee L. Who’s at the zoo? A Study of unaccessioned freshwater turtles at the Memphis Zoo. *Joint Meeting of Ichthyologists and Herpetologists*, Norfolk, Virginia, July 12–16, 2023. Invited talk for the ZooMu Initiative symposium.
- 2022
49. Lamb A.*, Perry R.W., and Rolland V. Tricolored bats overwinter in box culverts in an Arkansas region without caves. *Arkansas Karst and Bat Conservation Meeting*, Cave Spring, Arkansas, November 3–4, 2022.
48. Lamb A.*, Perry R.W., and Rolland V. Tricolored bats overwinter in box culverts in an Arkansas region without caves. *Arkansas Wildlife Action Plan Symposium*, Mount Magazine, Arkansas, September 13–14, 2022.
47. Lamb A.*, Perry R.W., and Rolland V. Tricolored bats overwinter in box culverts in an Arkansas region without caves. *Joint International Bat Research Conference and North American Society for Bat Research Symposium*, Austin, Texas, August 7–12, 2022.
46. Rolland V.* Are bluebirds equipped to face climate change? Invited talk at the *University of Mississippi* seminar series, Virtual, February 4, 2022.
- 2021
45. De Bellis C.R.*, Campbell S.P., Beaudry F., Stuyck C., Heath J., Speicher J., DeMent S.H., Fischer L.K., and **Rolland V.** Have North American birds been shrinking over time? A test of Bergmann’s rule in the context of climate change. *American Ornithological Society conference*, Virtual, August 9–13, 2021.
44. De Bellis C.* and **Rolland V.** The Relationship between North American Birds and Bergmann's rule in the context of climate change. *create@astate*, Virtual, April 19-21, 2021.

43. De Bellis C.* and **Rolland V.** Does Bergmann's rule apply to North American birds in the context of climate change? *Arkansas Chapter of The Wildlife Society*. Virtual, Arkansas, March 11, 2021.
42. Kearny V.*[^], Perry R., Risch T., and **Rolland V.** Distribution and day roost preferences of Eastern Small-Footed Bats in the Ouachita Mountains of Arkansas. *Arkansas Chapter of The Wildlife Society*. Virtual, Arkansas, March 11, 2021. **Best Student Oral Presentation**
- 2020
41. Kearny V.*, Perry R., Risch T., and **Rolland V.** Distribution and Day Roost Preferences of Eastern Small-Footed Bats in the Ouachita Mountains of Arkansas. *4th Annual Arkansas Karst and Bat Conservation Meeting*, Virtual Meeting hosted by The Nature Conservancy, October 29, 2020.
40. Kearny V.*, and **Rolland V.** Searching for Small-footeds: Distribution and Roost Preferences of *Myotis leibii*. *Fall meeting of the Arkansas Audubon Society*. Virtual Zoom meeting, October 24–26, 2020.
39. Kearny V.*, Perry R., Risch T., and **Rolland V.** Distribution and day roost preferences of Eastern Small-footed Bats in the Ouachita Mountains of Arkansas. *Arkansas Chapter of The Wildlife Society*. Little Rock, Arkansas, March 5-6, 2020.
- 2019
38. Hampton R., Attungulu G., **Rolland V.**, Wilson S., and McKay T.* Effects of infrared radiation on germination of long grain rice. *Entomological Society of America*, St Louis, Missouri, November 17-20, 2019.
37. Harrod S.* and **Rolland V.** Contrasting demographic responses of Eastern Bluebird populations to climatic variability. *American Ornithological Society*. Anchorage, Alaska, June 24-28, 2019.
- 2018
36. Scherman S.*, Risch T.S, and **Rolland V.** Southeastern Myotis and Rafinesque's Big-eared Bats Switch their Roosting Habits Seasonally in Arkansas Bottomlands. *North American Society for Bat Research*, Puerto Vallarta, Mexico, October 23-27, 2018.
35. Scherman S., Risch T.S, and **Rolland V***. Fall and winter roosting ecology of Rafinesque's big-eared bats and Southeastern bats. *Arkansas Wildlife Action Plan symposium*, Mount Magazine, Arkansas, September 10-11, 2018.
34. **Rolland V.***, Tietje W.D., Srivathsa A., Polyakov A.Y., and Oli M.K. Season-specific effects of climatic variables on the population demography of the big-eared woodrat in coastal-central California. *American Society of Mammalogists conference*, Manhattan, Kansas, June 25-29, 2018.
33. Harrod S.* and **Rolland V.** Demographic responses of Eastern Bluebirds to temporal climate variability. *Arkansas Chapter of The Wildlife Society Meeting*, Little Rock, Arkansas, March 1-2, 2018.
32. Scherman S.*, Risch T, and **Rolland V.** Southeastern myotis and Rafinesque's big-eared bats switch their roosting habits seasonally in Arkansas bottomlands. *Arkansas Chapter of The Wildlife Society Meeting*, Little Rock, Arkansas, March 1-2, 2018.
- 2017
31. Smart W.*, Collier N., and **Rolland V.** Applied research for seabird conservation: nesting performance, human harvest and introduced predators. *BirdsCaribbean*, Tolles de Collantes, Cuba, July 13-17, 2017.

30. Tietje W.D.*, Polyakov A.Y., **Rolland V.**, Hines J., and Oli M.K. Population ecology of the California mouse (*Peromyscus californicus*) in semi-arid oak woodland. *97th Annual Meeting of the American Society of Mammalogists*, Moscow, ID, June 20-24, 2017.
29. Smart W.*, Collier N., and **Rolland V.** Grenadine Seabird Productivity: Nesting Performance, Human harvests and Introduced Predators. *create@astate*, Jonesboro, AR, April 20-21, 2017.
28. Harrod S.*, and **Rolland V.** Demographic responses of eastern bluebirds to temporal climate variability. *create@astate*, Jonesboro, AR, April 20-21, 2017.
27. Langley E.^{U*}, **Rolland V.**, and Johnson R. Genetic Analysis of Adult and Juvenile Eastern Bluebirds in Northeast Arkansas. *create@astate*, Jonesboro, AR, April 20-21, 2017.
26. Schratz S., **Rolland V.***, Phillips J., Crosset R., Richardson D., and Risch T.S. Bat Occupancy Estimates and Species Richness at Cache River National Wildlife Refuge. *The 101st annual meeting of Arkansas Academy of Science*, Conway, AR, April 7-8, 2017.
25. Scherman S.*, Risch T.S., and **Rolland V.** Southeastern Myotis and Rafinesque's Big-Eared Bats Make Seasonal Switches In Their Roosting Habits In Arkansas Bottomlands. *Arkansas Chapter of The Wildlife Society Meeting*, Little Rock, Arkansas, March 2-3, 2017.
24. Smart W.*, Collier N., and **Rolland V.** Grenadine Seabirds: Nesting Performance, Human Harvest, and Invasive Predators. *Arkansas Chapter of The Wildlife Society Meeting*, Little Rock, Arkansas, March 2-3, 2017.
- 2016 23. Smart W.*, Collier N., and **Rolland V.** Seabird Colony Decline, Nesting Performance, Human Harvest, and Invasive Predators in the Southern Grenadine Islands. *6th North American Ornithology Conference*, Washington DC, August 16-20, 2016.
22. **Rolland V.**, Tietje W.D.*, Srivathsa A., Polyakov A.Y., and Oli, M.K. Environmental factors and population demography in big-eared woodrat, *Neotoma macrotis*. *96th Annual Meeting of the American Society of Mammalogists*, Minneapolis, MN, June 24-28, 2016.
21. Srivathsa A.*, Polyakov A.K.*, Tietje W.D., **Rolland V.**, and Oli M.K. Population demography and environmental drivers in brush mouse, *Peromyscus boylii*. *96th Annual Meeting of the American Society of Mammalogists*, Minneapolis, MN, June 24-28, 2016.
20. Dodd K., **Rolland V.***, and Oli M.K. Consequences of individual removal on persistence of a protected population of long-lived turtles. *Arkansas Chapter of The Wildlife Society Meeting*, Little Rock, AR, March 3-4, 2016.
19. Moore P.*, Risch, T.S., and **Rolland V.** Home range and habitat use of foraging *Myotis grisescens* from five maternity sites in Northern Arkansas using aerial tracking. *Arkansas Chapter of The Wildlife Society Meeting*, Little Rock, AR, March 3-4, 2016.
18. Schratz S.^{^*}, **Rolland V.**, and Risch T.S. Roost tree selection of the southeastern myotis and Rafinesque's big-eared bat the in the Cache River National Wildlife Refuge, Arkansas. *Arkansas Chapter of The Wildlife Society Meeting*, Little Rock, AR, March 3-4, 2016. ****3rd Best Student Oral Presentation****

17. Moore P.*, Risch, T.S., and **Rolland V.** Methods of aerial tracking using "home range and habitat use of foraging gray bats (*Myotis grisescens*) from five maternity sites in Northern Arkansas" as a case study. *Southeastern Bat Diversity Network*, Lake Guntersville State Park, Guntersville, AL, February 18-19, 2016.
16. Schratz S.*, **Rolland V.**, and Risch T.S. Roost tree selection of the southeastern myotis and Rafinesque's big-eared bat the in the Cache River National Wildlife Refuge, Arkansas. *Southeastern Bat Diversity Network*, Lake Guntersville State Park, Guntersville, AL, February 18-19, 2016.
- 2015
15. Moore P.*, Morris, K., Risch T.S., and **Rolland V.** Home range and habitat use of foraging gray bats (*Myotis grisescens*) from five maternity sites in Northern Arkansas. *North American Society for Bat Research Meeting*, Monterey, CA, October 28-31, 2015.
14. **Rolland V.***. Eastern Bluebirds in Jonesboro. *University Heights Lions Club*, Jonesboro, AR. April 7, 2015. ***Invited Talk by Erick Grant***
13. Istvanko D.*, Risch T.S., and **Rolland V.** Sex-specific foraging habits of the evening bat (*Nycticeius humeralis*) in the Ozark region of north-central Arkansas. *North American Joint Bat Working Group Meeting*, St. Louis, MO. March 3-6, 2015. **Best Student Oral Presentation**
12. Moore P.*, Risch T.S, and **Rolland V.** Home range and habitat use of foraging gray bats (*Myotis grisescens*) from four maternity sites in Northern Arkansas. *North American Joint Bat Working Group Meeting*, St. Louis, MO. March 3-6, 2015.
11. Fowler Neal J.A. and **Rolland V.*** How do Eastern Bluebirds choose their roost mates during the winter? *North American Ornithologists' Union*, Estes Park, CO. September 23-27, 2014.
- 2014
10. Istvanko D.*, Risch T. S., and **Rolland V.** Roost characteristics of Evening bats. *Arkansas Chapter of The Wildlife Society* Fall meeting, Jonesboro, AR. Sept 11, 2014.
9. Fowler J.A.* and **Rolland V.** Winter roosting habits of Eastern Bluebirds in NE Arkansas. *Arkansas Audubon Society meeting*, Jonesboro, AR, May 3, 2014.
- 2012
7. **Rolland V.*** Climate change, overexploitation, and bird populations. *Smithsonian Conservation Biology Institute*, Front Royal, VA. July 25, 2012. ***Invited Talk by Vicky McDonald***
- 2011
6. **Rolland V.***, Oli M.K., Johnson F., Percival F., Hostetler J.A., and Hines C. Bobwhite population dynamics. *129th American Ornithologists' Union Meeting*, Jacksonville, FL. July 14-15, 2011.
- 2009
5. **Rolland V.***, Hostetler J.A., Dimmick R., Brinkley S., Hines C., Percival F., and Oli M.K. Survival and cause-specific mortalities of Northern Bobwhite in South Florida. *16th annual conference of The Wildlife Society*, Monterey, CA. Sept 24-29, 2009.
- 2008
4. **Rolland V.**, Barbraud C.*, and Weimerksirch H. Comparative demography of four southern albatross species in relation to fisheries and climate. *International Albatross and Petrel Conference*, Cape Town, South Africa. August 2008.
- 2007
3. **Rolland V.***, Barbraud C., and Weimerskirch H. Influence des changements climatiques et des pêcheries sur la dynamique de population des albatros. Multidisciplinary meeting on polar research, *Comité National Français des Recherches Arctiques et Antarctiques*, Paris, France, Oct 5-6, 2007.

2. **Rolland V.***, Barbraud C., and Weimerskirch H. Assessing the impact of different threats on population dynamics of albatrosses. *The Buffon Legacy conference*, Dijon, France. Sept 3-9, 2007.
1. **Rolland V.***, Weimerskirch H., and Barbraud C. Combined effects of climate and fisheries on albatross demography. *Ecology & Behaviour meeting*, Montpellier, France. March 2007.

Poster Presentations

- 2025
52. **Kinchen T.M.***, Grindstaff J.L., Siefferman L.M., and **Rolland V.** Effects of historical severe winter weather on Eastern bluebirds. *Society for Integrative and Comparative Biology* 65: S266, Atlanta, Georgia, January 3–7, 2025.
 51. Perez J.H.*, Cornell A., **Cunningham K.M.^U**, Houtz J.L., Hubbard J., **Inanoglu S.E.**, **Rolland V.**, Siefferman L.M., and Knutie S.A. Effect of altered nest microclimate on hatchability of Eastern bluebird eggs across latitudes. *Society for Integrative and Comparative Biology* 65: S404, Atlanta, Georgia, January 3–7, 2025.
- 2024
50. **Terry J.***, **Rolland V.**, and Neuman-Lee L.A. Shifts in prioritization of immune components in freshwater turtles. *World Congress of Herpetology*, Sarawak, Borneo, August 5–9, 2024.
 49. **Sharrow T.S.***, **Rolland V.**, and Boves T.J. American Kestrels in agricultural landscapes of the Lower Mississippi Alluvial Valley: nest box occupancy, reproductive success, and pest control implications. *Association of Southeastern Biologists*, Chattanooga, Tennessee, March 20–23, 2024.
- 2023
48. Terry J.*, **Rolland V.**, Neuman-Lee L.A. Innate Immune Component Prioritization in Free-living Red-eared Slider. Poster for UandI-DEECODE Summer Institute, State University, AR. August 2023.
 47. **Sharrow T.***, **Rolland V.**, and Boves T. American kestrels in agricultural landscapes of the Lower Mississippi Alluvial Valley: nest box occupancy, reproductive success, and pest control. Joint meeting of the *American Ornithological Society and the Society of Canadian Ornithologists*, London, Ontario, Canada, August 8–12, 2023.
 46. **Rolland V.*** and Ruccio K. A technical writing course and a dedicated teaching assistant to improve biology students' communication and critical thinking skills. *Ecological Society of America* conference, Portland, Oregon, August 6–11, 2023.
 45. **Rolland V.**, Balenger S., Grindstaff J.*, and Siefferman L. Severe winter weather selected for longer extremities and duller plumage in Eastern Bluebirds. Joint meeting of the *American Ornithological Society and the Society of Canadian Ornithologists*, London, Ontario, Canada, August 8–12, 2023.
 44. **Rolland V.***, Balenger S., Grindstaff J., and Siefferman L. Rapid natural selection of eastern bluebirds during severe winter weather. *Ecological Society of America* conference, Portland, Oregon, August 6–11, 2023.
 43. **Lamb A.***, Perry R.W., and **Rolland V.** Tricolored bats overwinter in box culverts in caveless southern Arkansas. *Annual Meeting of the Western Bat Working Group*, Victoria, Canada, April 18–21, 2023.
 42. **Lamb A.***, Perry R.W., and **Rolland V.** Tricolored bats overwinter in culverts in caveless southern Arkansas. *Annual Meeting of the Southeastern Bat Diversity Network and*

Colloquium on the Conservation of Mammals in the Southeastern United States, Jonesboro, Arkansas, March 9–10, 2023.

- 2022
41. Sharrow T.*, **Rolland V.**, and Boves T. American kestrels as pest control agents in an agriculturally dominated landscape of northeast Arkansas. *Association of Field Ornithologists* annual meeting, Plymouth, Massachusetts, October 11–13, 2022.
40. Reusche M.*[^], Johnson R.L., and **Rolland V.** Has the endemic Ozark pocket gopher (*Geomys bursarius ozarkensis*) expanded its distribution? *Annual Meeting of the Southeastern Bat Diversity Network and Colloquium on the Conservation of Mammals in the Southeastern United States*, Virtual (gather.town), March 9–10, 2022. ****Best Student Poster Presentation****
39. Lamb A.*, Perry R.W., and **Rolland V.** Tricolored bats overwinter in culverts in caveless southern Arkansas. *Annual Meeting of the Southeastern Bat Diversity Network and Colloquium on the Conservation of Mammals in the Southeastern United States*, Virtual (gather.town), March 9–10, 2022.
- 2021
38. Garred T.*^U, Wilson C.^U, **Rolland V.**, and Boves T.J. Providing breeding areas for American Kestrels to repopulate agricultural areas. *SUPERB (Students United in Preserving, Exploring, and Researching scholarship program) summer institute*, Cadiz, Kentucky, August 8-11, 2021.
37. Bulice T.*, Neuman-Lee L., and **Rolland V.** Environmental Stress Factors Influencing Antler Fluctuating Asymmetry in White-tailed Deer (*Odocoileus virginianus*) in Arkansas. *SUPERB (Students United in Preserving, Exploring, and Researching scholarship program) summer institute*, Cadiz, Kentucky, August 8-11, 2021.
36. De Bellis C.R.* and **Rolland V.** Does size matter? A test of Bergmann's rule in the context of climate change. *SUPERB (Students United in Preserving, Exploring, and Researching scholarship program) summer institute*, Cadiz, Kentucky, August 8-11, 2021.
35. Kearny V.*, Perry R., Risch T., and **Rolland V.** Summer roost habitat and distribution of Eastern Small-footed bats in the Ouachita Mountains, of Arkansas. *Southeastern Bat Diversity Network*. Virtual (gather.town), February 25, 2021.
34. Bulice T.*, Neuman-Lee L., and **Rolland V.** Environmental Stress Factors Influencing Antler Fluctuating Asymmetry in White-tailed Deer (*Odocoileus virginianus*) in Arkansas. *Southeast Deer Study Group Meeting*. Virtual, February 22-24, 2021.
- 2020
33. Kearny V.*, Perry R., Risch T., and **Rolland V.** Eastern Small-footed bats roost in high-elevation, narrow crevices of talus slopes in the Ouachitas, Arkansas. *Southeastern Bat Diversity Network*. Athens, Georgia, February 12-14, 2020.
- 2019
32. Tietje W.*, Polyakov A., **Rolland V.**, and Oli M. Age-specific survival and probability of reproduction among juvenile and adult big-eared woodrats in a California oak woodland. *Joint Conference of the American Fisheries Society and The Wildlife Society*. Reno, Nevada, September 30-October 3, 2019.
31. Wynia A.L.*, **Rolland V.**, and Jiménez J.E. A novel device to best detect key woodpeckers: an experiment with the Magellanic Woodpecker. *American Ornithological Society*. Anchorage, Alaska, June 24-28, 2019.

30. Harrod S. and **Rolland V.*** Factors affecting knowledge and beliefs of college freshmen towards climate change. *National Council for Science and the Environment Annual Conference*. Washington, DC, January 7-10, 2019.
- 2018 29. McKay T.*, Hampton R., Atungulu G., Odek Z., Siebenmorgen T., Rolland V., and Wilson S. Post-treatment effects of infrared radiation on lesser grain borer (*Rhyzopertha dominica*) development. *Joint Meeting of the Entomological Society of America and the Entomological Society of Canada*. Vancouver, Canada, November 2018.
28. Beaird C.^{U*}, **Rolland V.**, McKay T., and Boves T. Attracting barn owls and American kestrels to agricultural areas of northeast Arkansas to provide pest control services. *SUPERB (Students United in Preserving, Exploring, and Researching scholarship program) summer institute*, Cabondale, Illinois, August 7-10, 2018.
27. Scherman S., Risch T.S., and **Rolland V.*** Southeastern myotis and Rafinesque's big-eared bats switch their roosting habits seasonally in Arkansas bottomlands. *American Society of Mammalogists*, Manhattan, Kansas, June 25-29, 2018.
26. Trusty M.^{U*} and **Rolland V.** Does axle grease effectively protect bluebird nests from predators? *create@astate*, Jonesboro, April 16-18, 2018.
25. Trusty A.^{U*} and **Rolland V.** Does frequently visiting a bluebird nest increase predation risk? *create@astate*, Jonesboro, April 16-18, 2018.
24. Harrod S.* and **Rolland V.** Factors affecting knowledge and beliefs of college freshmen toward climate change. *American Ornithological Society*, Tucson, AZ, April 10-15, 2018.
23. Scherman S.*, Risch T.S., and **Rolland V.** Southeastern myotis and Rafinesque's big-eared bats make seasonal switches in their roosting habit in Arkansas bottomlands. *The 102nd annual meeting of Arkansas Academy of Science*, Jonesboro, AR, April 6-7, 2018.
22. Trusty M.^{U*} and **Rolland V.** Does axle grease effectively protect bluebird nests from predators? *The 102nd annual meeting of Arkansas Academy of Science*, Jonesboro, AR, April 6-7, 2018.
21. Trusty A.^{U*} and **Rolland V.** Does frequently visiting a bluebird nest increase predation risk? *The 102nd annual meeting of Arkansas Academy of Science*, Jonesboro, AR, April 6-7, 2018.
20. Trusty M.^{U*} and **Rolland V.** Does axle grease effectively protect bluebird nests from predators? *STEM Posters at the Capitol*, Little Rock, AR, February 14, 2018.
19. Trusty A.^{U*} and **Rolland V.** Does frequently visiting a bluebird nest increase predation risk? *STEM Posters at the Capitol*, Little Rock, AR, February 14, 2018.
- 2017 18. Scherman S.*, Risch T.S., and **Rolland V.** Southeastern myotis and Rafinesque's big-eared bats make seasonal switches in their roosting habit in Arkansas bottomlands. *North American Society for Bat Research*, Knoxville, TN, October 18-22, 2017.
17. **Rolland V.**, Tietje, W.D.*, Srivathsa A., Polyakov A.Y., and Oli M.K. Environmental factors and population demography of the big-eared woodrat in coastal-central California. *97th Annual Meeting of the American Society of Mammalogists*, Moscow, ID, June 20-24, 2017.

16. Scherman S.*, Risch T.S., and **Rolland V.** Southeastern myotis and Rafinesque's big-eared bats make seasonal switches in their roosting habit in Arkansas bottomlands. *create@astate*, Jonesboro, AR, April 20-21, 2017.
15. Scherman S.*, Risch T.S., and **Rolland V.** Southeastern myotis and Rafinesque's big-eared bats make seasonal switches in their roosting habits in Arkansas bottomlands. *Southeastern Bat Diversity Network conference*, Asheville, NC, February 16-17, 2017.
14. Nepshinsky M.*, Liechty J., Minor A., Windhoffer E., **Rolland V.**, and Pierce A. Foraging movement patterns of breeding royal terns (*Thalasseus maximus*) on the Isles Dernieres Barrier Islands Refuge in southern Louisiana. *Gulf of Mexico Oil Spill and Ecosystem Conference*, New Orleans, LA, February 6-9, 2017.
- 2016 13. Smart W., Collier N., and **Rolland V.***. Seabird colony decline, nesting performance, human harvest, and invasive predators in the southern Grenadine Islands. *23rd Annual Conference of The Wildlife Society*, Raleigh-Durham, NC, October 15-19, 2016.
- 2015 12. Nepshinsky M.*, Liechty J., Minor A., Windhoffer E., **Rolland V.**, and Pierce A. Foraging movement patterns of breeding royal terns (*Thalasseus maximus*) on the Isles Dernieres Barrier Islands Refuge in southern Louisiana. *Southeastern Partners In Flight Annual Meeting*, Lafayette, LA. November 2-5, 2015.
11. Schratz S.*, **Rolland V.**, and Risch T.S. Characteristics of roost trees of Southeastern myotis and Rafinesque's big-eared bats in the bottomlands of Arkansas. *North American Joint Bat Working Group Meeting*, Monterey, CA. October 28-31, 2015.
10. Nepshinsky M.*, Liechty J., Minor A., Windhoffer E., **Rolland V.**, and Pierce A. Foraging movement patterns of breeding royal terns (*Thalasseus maximus*) on the Isles Dernieres Barrier Islands Refuge in Southern Louisiana. *Louisiana Chapter of the Wildlife Society Meeting*, Baton Rouge, LA, August 20-21, 2015 ***2nd place award***
9. Smart W.*, Collier N., and **Rolland V.** Seabirds' nesting performance in the Grenadines. *20th International Birds Caribbean meeting*, New Kingston, Jamaica. July 25-29, 2015.
8. Schratz S.*, **Rolland V.**, and Risch T.S. Characterization of Roost Trees of the Southeastern Myotis in the Bottomlands of Arkansas. *North American Joint Bat Working Group Meeting*, St. Louis, MO. March 3-6, 2015.
- 2014 7. Cansler B.^{U*} and **Rolland V.** Eastern Bluebird diet, behavior, and water content of prey items. *create@astate*, Jonesboro, AR. April 10, 2014.
6. Cansler B.^{U*} and **Rolland V.** Eastern Bluebird diet, behavior, and water content of prey items. *98th annual meeting of the Arkansas Academy of Science*, Searcy, AR, April 4, 2014.
5. Istvanko D.*, Risch T.S. and **Rolland V.** Sex-specific Foraging Habits of *Nycticeius humeralis* in an Intensely Managed Forest. *Southern Bat Diversity Network meeting*, Nacogdoches, TX, February 13-14, 2014.
- 2013 4. Fowler J.A.* and **Rolland V.** Winter nest box use and roost composition in Eastern Bluebirds in NE Arkansas. *American Ornithologists' Union meeting*, Chicago, IL. August 13-15, 2013.
3. Fowler J.A.* and **Rolland V.** Effects of temperature on Eastern Bluebird winter nest box use. *Association of Field Ornithologists meeting*, Venice, FL. March 28-30, 2013.

2. Moore P.* and **Rolland V.** Elevation and Female Bat Foraging Distribution in a Low Mountainous Region. *Southern Bat Diversity Network meeting*, Pikeville, TN. February 14-15, 2013.
- 2012 1. Bobowski M.M*, Bednarz J., Risch TS., Marsico T, and **Rolland V.** Foraging behavior and decision strategies by overwintering Red-tailed Hawks and American Kestrels in relation to prey density and patch-site characteristics. *North American Ornithology Conference*, Vancouver, Canada. August 15-18, 2012.

In the MEDIA

- 2025 Rolland et al. (2024) natural selection publication highlighted in a press release for the American Society of Naturalists: [Adapt or Freeze: How harsh winters reshape bluebirds' survival](#), March 25, 2025.
- 2024 Brown bluebird female work cited in the Bluebird Magazine volume 46, issue 4 (North American Bluebird Society) and on the [Sialis website](#).
Featured in the [Wildlife Vocalizations](#) segment of The Wildlife Society, August 27, 2024.
[A-State helps bluebird population rebound](#). Region 8 News (KAIT8), March 20, 2024.
- 2022 Harrod and Rolland's (2022) publication featured in the Cornell Lab of Ornithology NestWatch blog as [Staying steady when faced with environmental change](#).
- 2021 Science Riot from the Denver Press Club. Standup comedy for the science festival, October 15, 2021. I explained [how climate change is creating aliens](#) at minutes 26:37 through 32:41.
- 2019 Climate change and plastic pollution: factors, consequences, and solutions. Interview by Cross County High School students (Gabrielle M Hively & Madison Butler), December 4, 2019, for a C-SPAN video national contest.
[The east coast is going to get Arkansas-ified](#). The Atlantic, February 12, 2019.
- 2016 [Newly trained transboundary Grenadines citizen scientists unite to form Seabird Volunteer Patrol group](#). BirdsCaribbean, August 27, 2016.
[Lookout for A-State students working on bluebird project](#). Region 8 News (KAIT8), June 24, 2016.
- 2015 [Going batty! Researchers study the foraging habits of gray bats at Crystal cave](#). Arkansas Democrat Gazette (ArkansasOnline), August 2, 2015.
- 2014 [A Killer in the Dark](#). Arkansas Life, May 2014.

GRANTS, FELLOWSHIPS, and AWARDS

Research Grants Accepted and Funded

- 2022 **Arkansas BioScience Institute** (\$70,000) Improving human health and eco-agricultural integration in the Mississippi Delta via integrative pest control. PI: Boves, A-State; Co-PIs: Rolland and McKay, A-State.

National Science Foundation – CAREER Understanding the mechanisms that mediate the effects of local ecology on geographic mosaics of host-parasite interactions. PI: Knutie, UConn; Collaborator: Rolland et al. Collaborators receive \$10,000 to support undergrads.

Memphis Zoo - Conservation Action Network (\$3,912) Health and demographics of freshwater turtles within the Memphis Zoo. PI: Neuman-Lee, A-State; Co-PIs: Poo and Janney, Memphis Zoo; Rolland and Terry, A-State.

Arkansas INBRE (IDeA Network of Biomedical Research Excellence) - Core Facility Voucher (\$4,992) Genetic diversification and evolution of ectoparasites of Ozark pocket gophers. PI: Rolland; co-PIs: Johnson, A-State; Sweet, A-State; Reusche, A-State.

2021 **Arkansas Audubon Society - Conservation Trust** (\$1,056) Natural selection on morphological characteristics of Eastern Bluebirds during severe winter weather. PI: Rolland

2020 **Arkansas Game and Fish Commission - State Wildlife Grant** (\$81,720) Fall dispersal and genetic diversity of Ozark pocket gopher. PI: Rolland; Co-PI: Johnson, A-State; Connior, NWACC.

2019 **Arkansas Game and Fish Commission - State Wildlife Grant** (\$59,245) Winter roosting ecology of tricolored bats in southern Arkansas. PI: Rolland; Co-PI: Perry, USFS.

National Science Foundation (\$299,937) STEM Writing to Read. PI: Grippo, A-State. Invited as co-investigator in May 2019 and relayed as PI in 2021.

2018 **Arkansas Game and Fish Commission - State Wildlife Grant** (\$66,323) Distribution and day roost preferences of eastern small-footed bats (*Myotis leibii*) in the Ouachita Mountains. PI: Rolland; co-PI: Risch, A-State; Partner: Perry, USFS.

2016 **College Science and Mathematics GRADE** (\$6,025) Seabird colony decline, nesting performance, human harvest, and invasive predators in the Southern Grenadine islands. PI: Rolland.

US Fish and Wildlife Service - Gulf Coast Joint Venture (\$10,299) Foraging ecology of Black Skimmers (*Rynchops niger*) in Coastal Louisiana. PI: Rolland; co-PI: Pierce, Nicholls State University.

2015 **Arkansas Game and Fish Commission - State Wildlife Grant** (\$85,084) Fall and winter roosting ecology of Rafinesque's big-eared (*Corynorhinus rafinesquii*) and southeastern bats (*Myotis austroriparius*). PI: Rolland; co-PI: Risch, A-State.

2013 **US Fish and Wildlife Service** (\$53,460) Two-year mist-net and acoustical survey of Indiana bats on the Cache River National Wildlife Refuge. PI: Risch, A-State; co-PI: Rolland.

Arkansas Game and Fish Commission (\$99,037) Home range and habitat use of foraging gray bats from four maternity sites in northern Arkansas. PI: Risch, A-State; co-PI: Rolland.

2012 **Arkansas State University - Faculty Research Award** (\$2,000) Bird diet in relation to prey abundance and water content. PI: Rolland; co-PI: McKay, A-State.

Research Grants Accepted but not Funded

2019 **Arkansas Game and Fish Commission** (\$181,358) Assessing population structure, status, and health of target turtles in the delta region of Arkansas: implications for commercial harvest. PI: Neuman-Lee, A-State; Co-PI: Rolland. (*Ranked highest but another was funded*)

2012 **Arkansas Game and Fish Commission** (\$98,817) Home range and habitat use of foraging gray bats from four maternity sites in northern Arkansas. PI: Risch, A-State; co-PI: Rolland.

Arkansas Game and Fish Commission (\$254,900) The Effects of Burn Patch Size on the Reproductive Success and Survival of Northern Bobwhite. PI: Bednarz, A-State (at the time); co-PI: Rolland

Education Grants

2015 **Arkansas Humanities Council** (\$17,708) The History and Culture of Quail in Arkansas. PI: Miller, A-State; Collaborator: Rolland.

Fellowships and Awards

- 2020 * Faculty Achievement Award for excellence in teaching (\$2,500)
2016, 2024 * You Made a Difference Academic Advisor Award (nominated)
2014 * Council for Undergraduate Research: Beginning a Research Program in the Natural Sciences at a Predominantly Undergraduate Institution Institute, Greensboro, NC, Nov 21-23, 2014
2013 * Women Evolving in the Biological Sciences Symposium, Raleigh-Durham, NC, October 16-19, 2013
* Institute for Research Development, A-State, Jonesboro, AR, May 13-30, 2013
* A-State Outstanding Graduate Faculty Mentor Award (nominated)
2009 * Summer school on Arctic climate, Abisko Scientific Research Station, Sweden
2006 * Summer school on Biodemography, Max Planck Institute, Rostock, Germany
* Travel Award, Institut Paul Émile Victor, France
2005 * Ministry of National Education Fellowship, France
2003 * Erasmus Région Rhône-Alpes Fellowship, France

ADVISING and MENTORING EXPERIENCE

Undergraduate Academic Advising

Serving the *Wildlife, Ecology and Management* program, now called *Wildlife and Fisheries Conservation*
Graduated: three (May 2025), three (Dec. 2024), three (May 2024), two (Dec. 2023), one (May 2023), one (Dec. 2022), one (May 2022), one (Dec. 2021), three (May 2021), one (Dec. 2020), six (May 2020), three (Dec. 2019), one (Aug. 2019), one (May 2018), one (Dec. 2017), two (May 2017)
Currently advising: 25.

Undergraduate Student Mentoring

- 2025 Katelynn Waddell & Shelby Henley (B.S. Wildlife, Fisheries, and Conservation), Sable Crafton (B.S. Biology-PreVet), Kailea Johnson (B.S. Biotechnology), and Sarah Watson (B.S. Ecology, Ecology, Organismal Biology)
Intern (KW) or field assistants on collaborative bluebird nest parasite project
Lídize Sagarnaga Rivera (B.S. Ecology, Evolution, and Organismal Biology)
Research: Skin pattern as a potential monitoring tool for frog populations (Beck Scholar award)
Jayden Damron (B.S. Wildlife, Fisheries, and Conservation)
Research: Effect of nest temperature on nestling growth in Eastern Bluebirds
- 2024 Aliyah Durham (B.S. Wildlife, Fisheries, and Conservation)
Intern on the collaborative, bluebird nest parasite project
- 2023 – 2024 Katelyn Huber (B.S. Wildlife, Fisheries, and Conservation)

Intern for bluebird nest monitoring, species identification, bird banding techniques
Field assistant on the collaborative, bluebird nest parasite project

- 2023 Ethan Saffle (B.S. Wildlife, Fisheries, and Conservation)
Interns for American Kestrel nest monitoring, insect sampling, small mammal trapping, and avian surveys
- 2021 – 2023 Joe Schroeder (B.S. Wildlife, Fisheries, and Conservation)
Volunteer in nest monitoring as well as bird banding and processing in assistance with natural selection project
Worker in the mammal museum collection (PI: K. Gustafson)
Research 1: A case of structural leucism in Eastern Bluebirds (published)
Research 2: Nest site fidelity in second-year Eastern Bluebirds
- 2021 Abby Barlow (B.S. Wildlife, Fisheries, and Conservation)
Ozark pocket gopher trapping for genetic and ectoparasite analysis
Bluebird nest monitoring
- 2020 – 2021 Taylor Fiedor (B.S. Wildlife, Fisheries, and Conservation)
Tricolored bat survey in road culverts of southern Arkansas
- 2020 Cameron Rhoden (B.S. Wildlife, Fisheries, and Conservation)
Bat day-roost searching, acoustic monitoring
- 2019 – 2021 Samantha Burnett (B.S. Wildlife, Fisheries, and Conservation)
Bat day-roost searching, acoustic monitoring, mist-netting
Research: Pre-harvest demography of mud turtles.
Olivia Sitzes (B.S. Wildlife, Fisheries, and Conservation)
Research: Factors influencing tree frog use of bluebird nest boxes
Chase Simpson (B.S. Environmental Science)
Research: Age-specific content of fecal sacs in cavity-nesting species.
Received \$648 of funding from the Arkansas Audubon Society (2020)
- 2017 – present Amanda and Michael Trusty (B.S. Wildlife, Fisheries, and Conservation)
Nest monitoring, species identification, bird banding techniques
Research: Predator guard, inspection frequency, and nest success
Amanda works for the Crowley's Ridge Nature Center, Jonesboro, AR (2018)
- 2019 – 2020 Shelby Moseley (B.S. Wildlife, Fisheries, and Conservation)
Nest monitoring, species identification, bird banding techniques
Research: Note published about tufted titmice raising eastern bluebirds
Best Wildlife & Fisheries Conservation student award (2020)
- 2017 – 2019 Micah Mitchell and Jenny Rohrer (B.S. Wildlife, Fisheries, and Conservation)
Radio-tracking, tree species identification and measurements, bat mist-netting and harp-trapping, exit counts, bridge surveys, and measurements in ArcGIS.
- 2015 – 2017 Erin Langley (B.S. Biology, Pre-professional emphasis).
Honors Thesis: Genetic Analysis of Adult and Juvenile Eastern Bluebirds in Arkansas. Chair: Johnson (A-State)
Summer Undergraduate Research Fellowship (\$3,950) PI: Rolland; co-PI: Johnson
Best Pre-professional student award (2017); Admitted to Vet School in Texas.
- 2016 – 2017 Tyler Foster and Karen Wright (B.S. Wildlife Ecology and Management)
Radio-tracking, tree species identification and measurements, bat mist-netting and harp-trapping, exit counts, bridge surveys

- 2012 – 2017 Shaena Howell, Ashley Hart, Erica Olney, Emily Green, Trevor Grubb, Gracie Orfanos, Gunnar Muckleberg (B.S. Wildlife Ecology and Management); Emily Reynolds and Candice Ashley (B.S. Biology, Pre-professional emphasis).
Nest monitoring, species identification, bird banding techniques
- 2014 – 2015 Michael Gates (B.S. Biology, Pre-professional emphasis)
Winter nest box monitoring, Bird banding techniques
- 2014 Morgan Tripod (B.S. Biology, Pre-professional emphasis)
Ring-collaring for nestling diet sampling, pitfall trapping, sweep-netting techniques
Best Pre-professional student award (2016); Admitted to Med School in Arkansas.
- 2013 – 2015 Brandi Cansler (B.S. Wildlife Ecology and Management)
Research: Water content and prey selection in bluebirds
Poster presentations and prepared publication
Director of San Angelo Nature Center, TX (2016)
Graduate coordinator of Arkansas State University (2017)
Animal Care Facility Manager, A-State (2018)
- 2013 LeeVi Haas (B.S. Wildlife Ecology and Management)
Nest box maintenance, Winter box monitoring techniques
Graduated from A-State with a M.S. in Biology (2017)
Inspector, Arkansas Department of Environmental Quality (2017)
Biologist, Arkansas Game & Fish Commission, Mammoth Spring, AR (2018)
- 2012 – 2013 Emily Mizell (B.S. Wildlife Ecology and Management)
Nest monitoring, species identification, bird banding techniques
Research: Bluebird site and mate fidelity
Graduated from University of Arkansas School of Law (2016)
Attorney at Rose Law Firm, Little Rock, AR (2017)
Attorney at Conners and Winters, Fayetteville, AR (2018)

Graduate Student Mentoring

- 2022 – 2025 Ty Sharrow (M.S. Biology)
Thesis: American kestrels and barn owls as pest control agents in agricultural systems in northeastern Arkansas.
Co-advised with Dr. Than Boves
Received \$1,100 of funding from the Arkansas Audubon Society
Now: Conservation Science Assistant with Ducks Unlimited
- 2021 – present Jen Terry (Ph.D Environmental Sciences)
Dissertation: Integrated population model for red-eared sliders.
Co-advised with Dr. Lori Neuman-Lee
SUPERB Scholar; UandI-DEECoDE Scholar
- 2021 – 2025 Monica Reusche (M.S. Biology)
Thesis: Fall dispersal and genetic diversity of Ozark pocket gophers
SUPERB Scholar; Chair (until Sep. 2023), co-Chair: Dr. Ron Johnson
Received \$700 of funding from the Arkansas Audubon Society
Best student poster presentation, joint meeting of southeastern bat diversity network and conservation on mammals of the southeastern US (2022)
- 2020 – present Anneka Lamb (M.S. Environmental Sciences)
Started October 2020 as a field technician, MS student since January 2021.

Research project: Roosting ecology of tricolored bats in road culverts
SUPERB Scholar
Received \$3,700 of funding from internal and external sources (2022&2023)
Now: Natural Resources Sr. Scientist for Environmental Research Group

- 2020 – xxxx Tristan Bulice (M.S. Biology)
Thesis: Biotic and abiotic stress factors influencing antler fluctuating asymmetry in white-tailed deer (*Odocoileus virginianus*) in Arkansas
SUPERB Scholar; Co-advised with Dr. Lori Neuman-Lee
Now: Conservation program technician, Arkansas Game and Fish Commission
- 2019 – 2022 Perry Galloway, formerly Caitlin De Bellis (M.S. Biology)
Thesis: Does Bergmann’s rule apply to North American birds in the context of climate change?
SUPERB Scholar
Received \$1,200 of funding from the Arkansas Audubon Society (2020&2021)
Now: Environmental Specialist 4, Washington State Department of Ecology (2023–Present); Environmental Compliance Supervisor, City of Memphis, Tennessee (2021–2023)
- 2019 – 2021 Valerie Kearny (M.S. Biology)
Thesis: Distribution and day roost preferences of eastern small-footed bats (*Myotis leibii*) in the Ouachita Mountains
Received \$1,120 of funding from the Arkansas Audubon Society (2020)
Interned for Carlsbad Caverns (2020-21) and USFWS (DFP 2021)
Best student oral presentation, AR Wildlife Society meeting (2021)
Best MS Biology student (class 2021-22)
Now: GIS Analyst, Kent County, Delaware (2021–22); Fish biologist, Georgia (2022–Present)
- 2015 – 2020 Sara Harrod (Ph.D. Environmental Sciences)
Dissertation: Bluebird population dynamics in response to climatic variability at longitudinally contrasting regions
Received ~\$3,000 of funding from three ornithological organizations (2016) and the Arkansas Environmental Federation (2017)
Best 2021 PhD EVS student award.
Now: Natural resource specialist (GS-9) for the US Army Corps of Engineer, Lamar, CO (2021–22); Wildlife biologist (GS-11) for USFS, Stevensville, MT (2022–Present)
- 2016 – 2019 Stacy Scherman (M.S. Biology)
Thesis: Fall and winter roosting ecology of Rafinesque’s big-eared and Southeastern bats
Received a \$5,000 grant from Riverbanks Zoo & Garden (2017)
Intern for National Park Service (Summer 2018),
Workshop Conservation Leaders for Tomorrow (Spring 2019)
Now: Resource Management Biologist for South Carolina Department of Park, Recreation, and Tourism (2019–2025); Bat Habitat Conservation Plan Biologist for South Carolina Department of Natural Resources (2025 – Present).
- 2015 – 2019 Wayne Smart (M.S. Environmental Sciences)
Thesis: Assessing human harvest and invasive predation on Grenadine seabird nesting performance
Received a \$6,500 of funding from two ornithological organizations and the National Geographic Young Explorer (\$5,000)
Interviewed by The Chronicle of St George University, Grenada (2017)

Now: Contractor for Biodiversity and Protected Areas Management (BIOPAMA) and Environment and Climate Change Canada (ECCC)

- 2012 – 2016 Patrick Moore (M.S. Biology)
Thesis: Aerial telemetry to assess foraging habitat of female gray bats from four maternity colonies in Arkansas
Invited to give talks at other institutions in Arkansas
Received the one annual Southern Bat Diversity Network travel award (2015)
Now: Senior bat biologist for Environmental Solutions and Innovations, Inc.
- 2012 – 2015 Daniel Istvanko (M.S. Environmental Sciences)
Thesis: Sex-specific foraging and roosting habits of Evening bats in north-eastern Arkansas
Best student oral presentation, Southern Bat Diversity Network meeting (2015)
Best 2015 EVS student award.
Now: Wildlife diversity biologist for the Tennessee Wildlife Resources Agency
- 2012 – 2014 Jessica Fowler (M.S. Environmental Sciences)
Thesis: Eastern bluebird winter roosting habits
Received funding from three ornithological organizations
Now: Science teacher at Stony Point High School in Texas

Student Committees

Dissertations

- 2024 – present Nora Hines (Ph.D. Environmental Sciences)
Dissertation: Using Northern Cardinals and Inca Doves with their lice to understand host-parasite interactions across a diverse landscape. Chair: Sweet.
- 2019 – 2020 Annabelle McKie-Voerste (Ph.D. Environmental Sciences)
Dissertation: A test of the egg color sexually selected hypothesis in Eastern Bluebirds (*Sialia sialis*). Chair: Risch.
Now: Assistant Professor at Dalton College, Georgia.
- 2016 – 2020 Ashley Schulz (Ph.D. Environmental Sciences)
Dissertation: An assessment of non-native species' mechanisms of invasion, impact, management, and policy. Chair: Marsico.
Now: Post-Doc at Colorado State University
- 2014 – 2020 Amy Wynia (Ph.D. Biology, University of North Texas)
Dissertation: Magellanic woodpecker dynamics on Navarino island, Chile. Chair: Jiménez (University of North Texas).
Now: Online instructor (post-doc canceled due to COVID19)
- 2013 – xxxx Bob Vernocy (Ph.D. Environmental Sciences)
Dissertation: The effects of prescribed burning on the eastern wild turkey (*Meleagris gallopavo*) habitat use and demography in a shortleaf pine bluestem grass ecosystem. Chair: Bednarz then Risch.
- 2014 – 2016 Katie Kilmer (Ph.D. Environmental Sciences)
Dissertation: Water quality of the cache river watershed, arkansas: impairments and implications for lead toxicity. Chair: Bouldin.
Now: Assistant Professor of Biology and Environmental Health at Missouri Southern State University since August 2016.
- 2013 – 2016 John Artim (Ph.D. Environmental Sciences)

Dissertation: Habitat and community associations and the population dynamics of a temporary coral-reef fish ectoparasite. Chair: Sikkel.

Now: Lecturer in A-State Department of Biological Sciences.

Theses

- 2024 – present Ethan Saffle (M.S. Biology)
Thesis: Forest management and conspecific attraction to conserve Cerulean Warblers.
Chair: Boves
- 2023 – 2025 Noah Williams (M.S. Biology, Appalachian State University)
Thesis: Effects of weather and land use on reproductive parameters in a population of Eastern Bluebirds (*Sialia sialis*). Chair: Siefferman
- 2022 – xxxx Brandon Dunnahoo (M.S. Biology)
Thesis: Nightjar interspecific competition, non-breeding movements, and landscape-level habitat use in Arkansas. Chair: Boves.
Now: Staff scientist for Colibri Ecological Consulting, CA.
- 2019 – 2022 Geoffrey Payne (M.S. Biology)
Thesis: Evaluation of wood chip bioditch reactors as a nutrient reduction conservation strategy. Chair: Farris.
Now: Works for the USDA.
- 2016 – 2023 Jimmy Gore (M.S. Biology)
Thesis: Habitat Occupancy Modeling for Chiropteran Species of Concern on the Buffalo National River. Chair: Risch.
Now: Bat biologist for Environmental Solutions and Innovations, Inc.
- 2013 – xxxx Lauren Helton (M.S. Biology)
Thesis: Use of fish farms and Wetland Reserve Program properties by Least Terns and shorebirds during migration through eastern Arkansas. Chair: Bednarz then Risch.
Currently biologist for the Institute for Bird Populations, CA.
- 2019 – 2021 Heather Custer (M.S. Biology)
Thesis: Post-emergence migration patterns and habitat associations of female Indiana bats (*Myotis sodalis*) in Arkansas. Chair: Risch.
- 2018 – 2021 Jennifer Terry (M.S. Biology)
Thesis: Immune and endocrine tradeoffs throughout the activity season in Red-eared Sliders. Chair: L. Neuman-Lee.
Starting a PhD degree in August 2021 in Neuman-Lee and Rolland labs.
- 2018 – 2020 Crystal Griffin (M.S. Biology)
Thesis: Foraging behavior of Rafinesque's big-eared bats from a colony in rural Arkansas. Chair: Risch.
- 2017 – 2020 Joe Youtz (M.S. Biology)
Thesis: Bergmann's rule and occupancy of songbirds in a fragmented landscape.
Chair: Boves.
Now: Ph.D. student at Louisiana State University.
- 2016 – 2019 Hazel Berrios (M.S. Biology)
Thesis: Diversity and morphology patterns of vascular epiphytes along an elevation gradient in the tropical montane forest of Volcán Maderas, Nicaragua. Chair: Marsico.

Now: Ph.D. student at University of Alaska, Fairbanks

- 2017 – 2018 Megan Buckley (M.S. Biology)
Thesis: Habitat selection and use by *Nycticeius humeralis* in north-central Arkansas.
Chair: Risch. Involved since 2015 but only officially on committee since 2017.
Now: Instructor at A-State Jonesboro at Newport.
- 2015 – 2018 Rachel Hampton (M.S. Biology)
Thesis: Effects of Infrared Radiation on Rice and Stored-Product Insects. Chair: McKay.
Now: Research Assistant at the Arkansas Bioscience Institute
- 2015 – 2018 Sofija Todorovic (M.S. Biology)
Thesis: Potential vectors of heartworm (*Dirofilaria immitis*) in Arkansas and a model to predict seasonal transmission for the United States. Chair: McKay.
Now: Vet Student at St George University, Grenada.
- 2014 – 2016 Doug Raybuck (M.S. Biology)
Thesis: Migration and the post-fledging period: examining two critical stages of the Cerulean Warbler life cycle. Chair: Boves.
Now: Ph.D. student at University of Tennessee, Knoxville.
- 2014 – 2016 Sam Schratz (M.S. Biology)
Thesis: Presence and roosting ecology of the Southeastern myotis and Rafinesque's big-eared bat in the Cache River National Wildlife Refuge. Chair: Risch.
Now: Bat biologist for SWCA Environmental Consultants (2019-present).
- 2014 – 2015 Martine Toko Bowombe (M.S. Biology)
Thesis: Abundance and distribution of *Tribolium castaneum* (Coleoptera: Tenebrionidae) in rice mills and on-farm storage facilities. Chair: McKay
- 2013 – 2014 Phillip Jordan (M.S. Biology)
Thesis: Single-unit turbines and bat mortality in Arkansas. Chair: Risch
Now: Bat biologist for the US Forest Service, Hot Springs, AR.
- 2012 – 2014 Brehan Furfey (M.S. Biology)
Thesis: Nesting and foraging ecology of Black Skimmers in Louisiana pre-/post-BP oil spill. Chair: Bednarz then Risch.
Now: Biologist for the Oregon Department of Fish and Wildlife. OR.
- 2012 – 2013 Amy Wynia (M.S. Biology)
Thesis: Effects of nest-site selection, brood parasitism, and predation on the nesting success of passerines breeding in bottomland hardwood forests in East-Central Arkansas. Chair: Bednarz then Risch.
- 2012 – 2013 Sara Johnson-Miller (M.S. Biology)
Thesis: The effects of sibling aggression and landscape on dispersal patterns of a suburban Red-shouldered Hawk population in Cincinnati, OH. Chair: Bednarz then Risch.
Now: Biologist for the Royal Society for the Protection of Birds, UK.
- 2012 – 2013 Melissa Bobowski (M.S. Biology)
Thesis: Foraging behavior and decision strategies by overwintering Red-tailed Hawks and American Kestrels in relation to prey density and patch-site characteristics. Chair: Bednarz then Risch.

- 2012 – 2013 Karl Lamothe (M.S. Biology)
Thesis: Florida bass stocking protocol assessment in Arkansas reservoirs using microsatellites. Chair: Johnson.
Now: Research Biologist III with Fisheries and Oceans Canada at the Great Lakes Laboratory for Fisheries and Aquatic Sciences
- 2012 – 2013 Jonathan Elston (M.S. Biology)
Thesis: Turtle usage of urban streams in an expanding northeastern Arkansas city.
 Chair: Trauth.
- Practica**
- 2016 – 2022 Jennifer Reed (M.S. Biology)
Practicum: Collection biases and plant species richness misrepresentations in an agriculture-dominated landscape. Chair: Marsico.
- 2018 – 2020 Dylan DeRouen (M.S. Biology)
Practicum: Assessing vascular plant species richness and composition across anthropogenic systems and level IV ecoregions in the Crittenden and Mississippi counties of Arkansas. Chair: Marsico.
- 2013 Greg Robinson (M.A. Biology)
Practicum: Examination of femoral pore asymmetry in two sympatric lizard species based on behavioral differences; Minor project: Meet the snakes of your backyard – Outreach at Crowley’s Ridge Nature Center. Chair: Trauth.
Now: Assistant Professor of Biology at Gulf Coast State College, FL.

COURSES TAUGHT

*Undergraduate-level courses are coded 1000-4000, whereas graduate-level courses are coded 5000-7000.
 *New course I have developed; ^{CT}Co-taught course, ^{IR}Lab for which I have supervised a teaching assistant;
^{GL}Guest lectures. Non-traditional courses (e.g., Independent Study, Thesis hour, Internship) are not listed.*

Arkansas State University, 2011 – present

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| BIO 1001 | Biological Sciences Lab | every semester 2012–19 ^{IR} , F20 |
| BIO 1301 | Biology of Animals Lab | almost every semester 2012–18 ^{IR} |
| BIO 3673 | Human Dimensions of Natural Resources* | F13 ^{CT} , F15, F17 ^{CT} |
| BIO 4663 | Wildlife Investigation Techniques | Sp13, Sp15, Sp17, Sp19, Sp20, Sp22, Sp25 |
| BIO 4661 | Wildlife Investigation Techniques Lab | Sp13 ^{CT} , Sp15, Sp17, Sp19, Sp20 |
| BIO 4043 | Biometry* | Sp14, Sp16, Sp18, F19–24 |
| BIO 5043 | Biometry* | Sp16, Sp18, F19–24 |
| BIO 5444 | Wildlife Population Modelling* | F12, F14, F16, F18, F22 |
| BIO 5684 | Biological Data Analyses* | every spring since 2012 |
| BIO 6003 | Scientific Methods & Research Design | F12, F16–19 ^{CT} ; F13–15, F21–25 |
| ESCI 7121 | Ecological Aspects of Climate Change* | F11 |

U.S. Fish and Wildlife Service National Conservation Training Center, 2012 – 2013

ALC 3193 Climate Academy (a monthly webinar for natural resource managers and conservation professionals)

University of Florida, 2010

WIS 6455 Wildlife Population Ecology^{GL}

Centre d’Études Biologiques de Chizé, France, 2005-2008

Workshop *Basic statistical tests and generalized linear models using R* for graduate students.

Lectures Various topics relating to demography, conservation, and climate change for undergraduate students of Universities of La Rochelle, Tours, Poitiers and Angers; *Global change ecology* for students of Melle High School.

PROFESSIONAL DEVELOPMENT

Workshops Attended

2025 Teaching international students, A-State, Jonesboro, AR
 2021 Project-based Learning Institute, Worcester Polytechnic Institute, Virtual.
 2020 A-State R Users Group short workshops on RMarkdown and maps in R.
 2014 Council for Undergraduate Research: Beginning a Research Program in the Natural Sciences at a Predominantly Undergraduate Institution Institute, Greensboro, NC
 2013 Women Evolving in the Biological Sciences Symposium, Raleigh-Durham, NC
 2013 Institute for Research Development, A-State, Jonesboro, AR
 2013 Mist-netting, Bird Extraction, and Bird Banding, Missouri River Bird Observatory, Marshall, MO
 2012 Creating a Climate of Mentorship—Developing a Viable Program, A-State, Jonesboro, AR
 2011 NSF Day in Arkansas, Little Rock, AR
 2011 Teaching Local and International Students, A-State, Jonesboro, AR
 2011 Analysis and Management of Vertebrate Populations and Communities, University of Florida, Gainesville, FL.
 2010 Information Theoretic, University of Florida, Gainesville, Florida
 2008 Demographic responses of vertebrate populations to climatic changes, Chizé, France
 2005 Analysis of multistate capture-recapture data: Modelling incomplete individual histories, Centre d'Écologie Fonctionnelle et Évolutive, Montpellier, France

Professional Meetings Attended

^JJudge for student poster/oral presentations; ^{JC}Judging coordinator

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| American Ornithologists' Union | 2013, 2014 |
| American Society of Mammalogists | 2018 |
| Arkansas Academy of Science | 2014, 2017 |
| Arkansas Audubon Society | 2013, 2014 |
| Arkansas Chapter of The Wildlife Society | 2011–2015, 2016-17 ^J , 2018-19, 2020 ^J , 2021-22 |
| Arkansas Wildlife Action Plan | 2018, 2020, 2022 |
| British Ornithological Union | 2020 |
| Ecological Society of America | 2023 |
| National Council for Science and the Environment | 2019 |
| North American Ornithologist Conference | 2012 |
| North American Society for Bat Research | 2015, 2017, 2018 ^J , 2020 |
| Ozark Karst and Bat Conservation | 2020, 2021 |
| Society for Integrative & Comparative Biology | 2025 ^J |
| Southern Bat Diversity Network | 2015 ^J , 2017, 2020 ^J , 2021-22, 2023 ^{JC} |
| Southeast Deer Study Group | 2015 |
| Strategic Quail Management Plan | 2016 |
| The Wildlife Society | 2011, 2016, 2017 |

PROFESSIONAL SERVICE

Reviewer

Grant proposals

National Science Foundation (3), Fonds de Recherche Quebec Nature et Technology (16), DoD's Strategic Environmental Research and Development Program (5)

Graduate Student Grant proposals

Association of Field Ornithologists – Bergstrom Grant (7)

Manuscript Guest Editor

Southeastern Naturalist (1)

Scientific papers

Ardea, Arkansas Academy of Science, Auk: Ornithology, Avian Conservation and Ecology, Biological Conservation, Condor: Ornithological Applications, Ecological Applications, Ecology, Endangered Species Research, European Journal of Wildlife Research, Forest Ecology and Management, Frontiers, Ibis, Herpetological Conservation and Biology, Journal of Animal Ecology, Journal of Applied Ecology, Journal of Field Ornithology, Journal of Mammalogy, Journal of Ornithology, Journal of Wildlife Management, Mammal Research, Marine Biology, Marine Ecology Progress Series, Nature – Ecology and Evolution, Nature – Climate Change, Northeastern Naturalist, Oecologia, Oikos, Proceedings of Quail VII, Southwestern Naturalist, Taprobanica, Urban Naturalist, Waterbird, Wilson Journal of Ornithology, Wildlife Research, Wildlife Society Bulletin

Professional memberships

2024 Society of Integrative and Comparative Biology
2018, 2022 American Society of Mammalogists
2015, 17–18, 22–23 North American Society for Bat Research
2015 – present Southeastern Bat Diversity Network
2014, 2017 Arkansas Academy of Science
2013 – present North American Bluebird Society
2013 – present Arkansas Audubon Society
2013 – present American Ornithologist Society
2013 – 2018 Association of Field Ornithologists
2013 – 2020 Cornell Lab of Ornithology
2012 – present The Wildlife Society (national and Arkansas chapter)
2018 – present Southeastern Section of The Wildlife Society
2019 – 2022 Sigma Xi

Service to The Wildlife Society (TWS)

2021 – 2024 Chair of the Conservation Review Committee for the Arkansas Chapter of TWS
2018 – 2024 Arkansas Representative on the Southeastern Conservation Affairs Committee of TWS
2017 – 2019 Secretary-Treasurer of the Arkansas Chapter of TWS
2018 Reviewer of student travel awards for TWS annual conference
2016 – 2017 Judge for student presentations at the Arkansas Chapter of TWS meetings
2014 Coordinated and Hosted the Arkansas TWS meeting at A-State – Jonesboro campus

AR Quail Council

2016 – 2017 Technical Committee member

Christmas Bird Count

2013 – present National Audubon Society Registered compiler for the Jonesboro circle
2011 – present Participated in Jonesboro counts

Science Fair Judge

2011 – 2016 Judged grade 7-12 projects for local and regional science fairs

UNIVERSITY SERVICE

Department

2025 Search Committee Chair for a microbiology tenure-track position
Search Committee member for two SmartCenter advisors

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| 2024 – present | Peer mentor |
| 2021 – 2024 | Long-range Planning Committee member |
| 2020 – 2021 | Animal Welfare Committee, Chair |
| 2019 – 2020 | Search Committee member for Disease in Nature cluster hirer |
| 2019 | Environmental Sciences program Policy (ad hoc) Committee member |
| 2018 – present | Promotion, Retention, and Tenure Committee member (2018-21, 2025), Chair (2022-25) |
| 2017 – 2020 | Faculty Grievance Committee member |
| 2017 – 2020 | Graduate Program Committee member |
| 2013 – present | Curriculum Committee member (until 2020), Chair (since 2021) |
| 2013 – 2019 | New Student Registration advisor |
| 2013 – 2015 | Long-term Strategic Planning Committee member |
| 2012 – 2020 | Student Award Committee member (until 2017), Chair (since 2018) |
| 2012 – 2013 | Search Committee member for Ornithology tenure-track position |
| | Search Committee member for a Rice Mills Research Assistant |
| 2011 – present | Statistical service to students and faculty |

College

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| 2022 – present | Promotion, Retention, and Tenure Committee (member until 2025, Chair 2025) |
| 2022 – present | Curriculum Committee member |
| 2016 | Taught an introduction to statistics for Bridge, a program to help students from underrepresented groups to bridge from a BS degree in STEM to graduate school. |
| 2012 – present | Wildlife and Fisheries student club co-advisor since 2012 |
| | Women in Science student club advisor since 2013 |
| | Outing student club advisor (2019-20) |

University

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| 2025 | Promotion, Retention, and Tenure Committee member |
| 2023 – Present | MixedFit instructor in the Red Wolf Wellness program for faculty and staff (2023). MixedFit is a 45-min dance fitness course. I volunteered my time twice a week in May-Aug 2023, and again once a week since Jan 2024. |
| 2023 – Present | Science representative on the Women’s Leadership Collaborative. Nominated an awardee, invited a keynote speaker, and mentored interns fall 2023 and 2024. |
| 2022 | Served on a women in science panel following <i>Picture a Scientist</i> film hosted by the Women in Science club and sponsored by the Arkansas Science Festival. |
| 2018 | Served on a women in science panel following <i>Silent Sky</i> show directed by Dr. Marc Williams. |
| 2014 – 2020 | Institutional Review Board Committee member |
| 2016 – 2017 | create@astate Committee member (a committee that organizes a campus-wide scholar conference) |
| 2013 | Offered two workshops for the Department of Continuing Education and Community Outreach: <i>Attracting birds in your backyard</i> and <i>Salsa dancing for beginners</i> . |
| 2012 – 2013 | Undergraduate Graduation & Academic Credit Appeals Committee substitute |

COLLABORATORS

Non-student collaborators for the past 3 years

Susan Balenger (University of Minnesota-Twin Cities, MN)
Frederic Beaudry (Alfred University, Canada)
James Bednarz (University of North Texas, TX)
Than Boves (A-State, biology, AR)
Steve Campbell (Albany Pine Bush Preserve Commission, NY)
Sam DeMent (Montreat College, NC)
Cheryl Dykstra (Raptor Environmental, OH)
Matthew Connior (Northwest Arkansas Community College, AR)
Jen Grindstaff (Oklahoma State University, OK)

Anne Grippo (A-State, biology, AR)
Kyle Gustafson (A-State, biology, AR)
Julie Heath (Boise State University, ID)
Ron Johnson (A-State, biology, AR)
Sarah Knutie (University of Connecticut, CT)
Tanja McKay (A-State, biology, AR)
Lori Neuman-Lee (A-State, biology, AR)
Roger Perry (USFS, AR)
Silan Poo (Memphis Zoo)
Tom S. Risch (A-State, biology, AR)
Lynn Siefferman (Appalachian State University, NC)
Jackie Spiecher (Pocono Mountain Avian Research, PA)
Claire Stuyck (Alaska Songbird Institute, AK)
Andrew Sweet (A-State, biology, AR)