

## **CIRRICULUM VITAE**

### **STEVEN J. PRICE**

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### **EDUCATION**

2011 Doctorate of Philosophy. Biology, Wake Forest University

2003 Master of Science. Environmental Science and Policy, University of Wisconsin-Green Bay

2000 Bachelor of Science. Environmental Science and Biology (Double Major), University of Wisconsin-Green Bay

### **ACADEMIC APPOINTMENTS**

July 2022-present: Full Professor of Stream and Riparian Ecology, Department of Forestry and Natural Resources, University of Kentucky

- DOE FY 2022: 41.5% research, 43.5% teaching, 5% service, 10% admin
- DOE FY 2023: 64.5% research, 30.41 teaching, 5% service

July 2017-July 2023: Director of Graduate Studies (Forest and Natural Resource Sciences), Department of Forestry and Natural Resources, University of Kentucky

July 2017-July 2022: Associate Professor of Stream and Riparian Ecology, Department of Forestry and Natural Resources, University of Kentucky

- DOE FY 2021: 52.5% research, 32.5% teaching, 5% service, 10% admin
- DOE FY 2020: 46.7% research, 38.3% teaching, 5% service, 10% admin
- DOE FY 2019: 41.45% research, 48.55% teaching, 10% admin
- DOE FY 2018: 35.95% research, 54.05% teaching, 10% admin

July 2012-June 2017: Assistant Professor of Stream and Riparian Ecology, Department of Forestry and Natural Resources, University of Kentucky

- DOE FY 2017: 68.0% research, 32.0% teaching
- DOE FY 2016: 57.7% research, 42.3% teaching
- DOE FY 2015: 58.7% research, 41.3% teaching
- DOE FY 2014: 59.2% research, 40.8% teaching
- DOE FY 2013: 83% research, 17% teaching

June 2011-June 2012: Post-Doctoral Research Fellow, Davidson College, Department of Biology, Davidson NC

2008-2009, 2011-2012: Adjunct Instructor/Visiting Assistant Professor, Department of Biology, Davidson College, Davidson NC

2004-2011: Research Coordinator, Department of Biology, Davidson College, Davidson NC

## **RESEARCH SUMMARY**

### **Research Interests**

Conservation Biology, Wildlife Ecology, Freshwater Ecology, Restoration Ecology, Herpetology, Ecological Modeling

### **Summary of Scholar Metrics**

Extramural funding as PI or Co-PI: **\$3,754,479** since arrival at UK

H-index: **31** (Google Scholar as of 11/28/2023)

Total citations: **3095** (Google Scholar as of 11/28/2023)

Peer-reviewed journal articles: **106**

## **FUNDED EXTRAMURAL RESEARCH**

Role explained in parenthesis.

Springer, M., J. Cox and **S.J. Price**. 2022-2023. Applying Landscape Genomics to Infer CWD Transmission Corridors and Inform Management Activities in Western Kentucky and Tennessee. Kentucky Department of Fish and Wildlife Resources. **\$196,106**. (*Regionally Competitive*) (**As Co-PI, I participated in data collection, data analysis and manuscript preparation**)

**Price, S.J.** and W.R. Haag. 2023. Where have all the mussels gone? A Multi-scale approach to address the widespread decline of freshwater mussels. Part 2. American Rivers and The BAND foundation. **\$67,262** (**As PI, I co-lead a multi-state project on assessing stressors on mussel populations. I co-advised a post-doctoral student funded by this project**)

**Price, S.J.** and W.R. Haag. 2021-2022. Where have all the mussels gone? A Multi-scale approach to address the widespread decline of freshwater mussels. Part 1. American Rivers and The BAND foundation. **\$71,031** (*Regionally Competitive*) (**As PI, I co-lead a multi-state project on assessing stressors on mussel populations. I co-advised to post-doctoral student funded by this project**)

**Price, S.J.**, J. Larkin, J. Cox, T. Fearer and C. Barton. 2021-2023. Evaluating the use of reclaimed forests by threatened, endangered and species of concern on Appalachian coal mines. Office of Surface Mining and Reclamation. **\$199,397** (*Nationally Competitive*) (**As PI, I led all aspects of study design, data collection, data analysis and manuscript writing. I served as major advisor to 2 MS students funded by this project**)

**Price, S.J.** 2019-2022. Assessment of Eastern Hellbender populations in Kentucky: Distribution and recruitment. Kentucky Department of Fish and Wildlife Resources. ~\$91,000 (*State Competitive*) (**As PI, I lead the research efforts using environmental DNA, trapping and artificial nest box construction. I serve a major advisor to PhD student Tomke who is funded by this project**)

**Price, S.J.** and W.R. Haag. 2019-2022. Assessing the role of invasive Asian Clams (*Corbicula fluminea*) in native mussel declines. Memorandum of Understanding among University of Kentucky Research Foundation, Kentucky Waterways Alliance and US Fish and Wildlife Service. \$53,135. (*Regionally Competitive*) (**As PI, I lead a team assessing the impacts of an invasive mussel on native mussel species. I served a major advisor to MS student White who was funded, in part, by this project**)

**Price, S.J.** and W.R. Haag. 2018-2023. Implementation of a monitoring tool for assessing stream health. US Forest Service. \$6849 (*Regionally Competitive*) (**As PI, I co-lead a study using mussels as indicators of stream health**)

Crowley, P., **S.J. Price**, K. Zeidler, L. Higgins-Hord. 2017. A remote-video artificial stream system for the Ecological Research and Education Center. National Science Foundation. \$414,649 (*Nationally Competitive*) (**As Co-PI, I participated in design of artificial stream network, which PhD student Greene is using in her research**)

Hutton, J.M. and **S.J. Price**. 2017. The effects of specific conductance on stream salamander occupancy and allochthony in southeastern Kentucky. Foundation for the Conservation of Salamanders Daniel M. Digiacommo Grant, 2017. \$5,000 (*Nationally Competitive*) (**As Co-PI, I participated in all aspects of this study and advised MS student Hutton**)

**Price, S.J.**, A. Drayer, and J. MacGregor. 2017-2018. Occupancy and abundance of the streamside salamander (*Ambystoma barbouri*) in relation to land-use, water chemistry and high-flow events in central Kentucky streams. US Fish and Wildlife Service (Section 6 funding through the Endangered Species Act). \$31,000 (*State Competitive*) (**As PI, I led a team of technicians and undergraduate students assessing the status of the regionally endemic streamside salamander**)

**Price, S.J.** and W.R. Haag. 2016-2021. Using juvenile freshwater mussels as bioindicators in the Rockcastle drainage (Kentucky). Joint Venture with US Forest Service. \$50,000 (*Regionally Competitive*) (**As PI, I co-led a team assessing juvenile mussels as indicators of stream health within the Rockcastle River system and other rivers in KY. I served a major advisor to MS student White who was funded, in part, by this project**)

**Price, S.J.** and W.R. Haag. 2016-2019. Using juvenile freshwater mussels as bioindicators to identify causes and sources of stream degradation associated with mussel declines. Memorandum of Understanding among University of Kentucky Research Foundation, Kentucky Waterways Alliance and US Fish and Wildlife Service. \$30,000 (*Regionally Competitive*) (**As PI, I co-led a team assessing juvenile mussels as indicators of stream health within the**)

**Rockcastle River system and other rivers in KY. I served a major advisor to MS student White who was funded, in part, by this project)**

**Price, S.J., G.M. Connette, S.J. Bonner and J.M. Lorch. 2016. Evaluating the impact of snake fungal disease on wild snake populations. National Geographic Society. \$15,000 (Nationally Competitive) (As PI, I led a team assessing the role of snake fungal disease on wild snake populations. I advised MS student McKenzie; this project funded her field research)**

**Price, S.J. and S.B. Freytag. 2016. Dynamics of trace metal and ion concentrations in reclaimed mountaintop removal and reference headwater streams. Kentucky Water Resources Research Institute. \$4,656 (University Competitive) (As PI, I led a team assessing the role of snake fungal disease on wild snake populations. I advised MS student McKenzie; this project funded her field research)**

Andrews, R., D.N. Taulbee, E.W. Woolery, L. E. Ormsbee, S.K. Hampson, Z. Wang, J. Zhu, G. Rohrbacher, A. Filson and **S.J. Price**. 2016-2023. Kentucky Research Consortium for Energy and Environment (KRCEE). Department of Energy. **\$2,500,000** ( $\approx$  \$40,000 to Price for 2016-2023 research and Annual Site Environmental Report with Marshall High School (MCHS) students at West Kentucky State Wildlife Management Area) (*Nationally Competitive*) (**As Co-PI, I worked with MCHS students on evaluating wetlands and wetland amphibian assemblages on West Kentucky Wildlife Management Area (McCracken County KY). I advised several NRES interns on independent study projects that used some of the field data collected by myself and MCHS students**)

**Price, S.J., D.W. Weisrock, and W. R. Haag. 2015. Dispersal congruency and population structure within imperiled host-parasite systems. Kentucky Science and Engineering Foundation. \$30,000 (State Competitive) (As PI, I led a team assessing a freshwater mussel and host using next generation sequencing methods. I co-advised MS student Murphy; this project funded his field research)**

**Price, S.J. and T. Kreher. 2015-2016. Amphibian habitat assessment at the Paducah Gaseous Diffusion Plant and the West Kentucky State Wildlife Management Area. Department of Energy. \$26,656 (State Competitive) (As PI, I led a team of undergraduate students assessing amphibian habitat)**

Weisrock, D.W. and **S.J. Price**. 2013. Leveraging novel genetic and genomic technologies to understand and conserve a Kentucky state endangered giant salamander. Kentucky Science and Engineering Foundation. **\$30,000 (State Competitive) (As Co-PI, I led field efforts to capture hellbenders and determine status of populations. I served on PhD student Hime (UK Biology) graduate committee)**

#### **PENDING EXTRAMURAL RESEARCH**

Hoyt, J.R., L.M. Childs, **S.J. Price**, B. Ogbunugafor, and K. Langwig. 2022. Sit-and-wait Pathogens: Disentangling the Role of Environmental Pathogen Reservoirs in Infectious Disease Dynamics. National Science Foundation. **\$2,999,138.**

## PROPOSALS SUBMITTED NOT FUNDED

Hoyt, J.R., L.M. Childs, **S.J. Price**, B. Ogbunugafor, and K. Langwig. 2021. Sit-and-wait Pathogens: Disentangling the Role of Environmental Pathogen Reservoirs in Infectious Disease Dynamics. National Science Foundation. **\$2,499,714**. (ranked as competitive)

**Price, S.J.** and W.R. Haag. 2017. Development and implementation of decision support tools for assessing stream health using freshwater mussels as Bioindicators (Cumberland River Basin, KY). 2017. National Fish and Wildlife Foundation. **\$98,848** (*Nationally Competitive*)

Hickman, J.B., J.J. Cox, D.C. Harris, T.O. Ochuodho, **S.J. Price**, M.T. Springer, J.W. Stringer, and J. Yang. 2017. Rogersville Shale Energy and Environment Laboratory, ecological assessment of potential development area. U.S. Dept. of Energy **\$5,911,711** (*Nationally Competitive*)

Goldberg, T.L., J.M. Lorch, M. Z. Peery, **S.J. Price** and B. Zuckerberg. 2016. Snake fungal disease as a model for the in situ emergence of fungal pathogens. Subaward from the University of Wisconsin. Granting Agency National Science Foundation. **\$430, 039** (*Nationally Competitive*)

Lhotka, J. and **S.J. Price**. 2015. Summer undergraduate fellowships in the science and management of Appalachian forest ecosystems. Undergraduate research and extension experiential learning fellowships (USDA-NIFA-AFRI-004797). US Department of Agriculture. **\$286,132** (*Nationally Competitive*)

**Price, S.J.**, G. Connette, S. Bonner and J. Lorch. 2015. Preliminary Proposal: Disease dynamics in elusive species: quantitative modeling approaches to understand the impact of an emerging fungal disease on snake populations (Proposal No. 1532429). National Science Foundation, Division of Environmental Biology (NSF 15-500) (*Nationally Competitive*)

Barton, C., J. Bender, **S.J. Price**, C. Agouridis, D. Taylor, and T. Littlefield. 2015. Restoration and enhancement of pink-oak-hickory savanna community with the Frances J. Palk State Nature Preserve, Pulaski County, Kentucky. Cumberland Plateau Stewardship Fund, National Fish and Wildlife Foundation. **\$74,267** (*Nationally Competitive*)

**Price, S.J.**, G. Connette, S. Bonner and J. Lorch. 2014. Identifying factors that contribute to snake fungal disease and evaluating its impact on snake populations. Morris Animal Foundation. **\$119,849** (*Nationally Competitive*)

Greathouse, J., C. Wampler, P. Hime, D. Baxley, and **S.J. Price**. 2014. Training future field biologists through eastern hellbender (*Cryptobranchus alleganiensis alleganiensis*) surveillance in the Cumberland ranger district of the Daniel Boone National Forest. National Fish and Wildlife Federation. **\$32,165** (*Nationally Competitive*)

**Price, S.J.**, M.O. Murphy, D.W. Weisrock. 2014. Dispersal concordance and population structure within an imperiled host-parasite system. Kentucky Water Resources Research Institute. **\$5,000** (*University Competitive*)

Keyser, T.L., C. Kern, C.R. Webster, J.M. Lhotka, **S.J. Price**, S. Boyden, and J. Rodrigue. 2014. Sustaining crop tree productivity and a diversity of species and functional traits as an ecosystem service with management strategies based on natural disturbance and ecological theory. USDA-NIFA-AFRI-A1451. **\$491,070** (*Nationally Competitive*)

**Price, S.J.**, M.O. Murphy, D.W. Weisrock. 2014. Dispersal concordance and population persistence within an imperiled host-parasite system of lotic environments. Kentucky Water Resources Research Institute. **\$5,000** (*University Competitive*)

**Price, S.J.** and J.M. Lhotka. 2013. REU site: Integrated studies of disturbance in an Appalachian forest ecosystem, the University of Kentucky's Robinson Forest. National Science Foundation, Research Experience for Undergraduates (NSF 13-542). **\$350,721** (*Nationally Competitive*)

**Price, S.J.** and J.M. Lhotka. 2012. REU site: Forest ecology and natural resource management in Appalachia. National Science Foundation, Research Experience for Undergraduates (NSF 12-569). **\$337,112** (*Nationally Competitive*)

Spradling, J. and **S.J. Price**. 2012. The Robinson Scholars Environmental Education Initiative. U.S. Environmental Protection Agency, Environmental Education Regional Grants. **\$288,000** (*Nationally Competitive*)

**PUBLICATIONS** \* undergraduate student, † graduate student, § corresponding author  
**Books/Book Chapters/Book Reviews (Total to date: 9; since arrival at UK: 4)**

10. Richter, S.C., **S.J. Price**, and J.M. MacGregor. *In preparation*. The Reptiles and Amphibians of Kentucky. University Press of Kentucky.

9. **Price, S.J.**, J.C. Guzy, A.M. Durso, R. Kerney, and S.A. Tomke. *In review*. Aging and Sexing Amphibians and Reptiles. L. Powell and J. Carroll, (eds.), The Wildlife Techniques Manual. Johns Hopkins University Press.

8. **Price, S.J.** 2022. Mink Frog, *Lithobates septentrionalis*. J. Kapfer, E.R. Wild and D. Brown, (eds.), Amphibians and Reptiles of Wisconsin. University of Wisconsin Press.

7. **Price, S.J.** 2017. Book Review: Amphibians and Reptiles of Land Between the Lakes Herpetological Review.

6. **Price, S.J.**, J. L. Snodgrass, and M.E. Dorcas. 2014. Managing aquatic habitats for wildlife in urban areas. In R. McCleery, C. Moorman, and N. Peterson (eds.), Urban Wildlife Science: Theory and Practice. Springer.

5. Dorcas, M.E., **S.J. Price**, S. C. Walls and W. J. Barichivich. 2009. Auditory monitoring of anuran populations. In Dodd, C.K., Jr. (ed.), Conservation and Ecology of Amphibians. A Handbook of Techniques. Oxford University Press.
4. Dorcas, M.E. and **S.J. Price**. 2008. Effective undergraduate-based herpetological research in an urban environment. In R. E. Jung and J. C. Mitchell (eds.), Urban Herpetology. Herpetological Conservation Vol. 3, Society for the Study of Amphibians and Reptiles. Salt Lake City, UT
3. **Price, S.J.** 2008. Painted turtle, *Chrysemys picta*. In J. Jensen, C. D. Camp, J. W. Gibbons, and M. Elliot, (eds.), The Amphibians and Reptiles of Georgia. University of Georgia Press.
2. Dorcas, M. E., **S.J. Price**, J. C. Beane, and S. S. Cross. 2007. The Frogs and Toads of North Carolina. North Carolina Wildlife Resources Commission, Raleigh, NC.
1. **Price, S.J.** 2004. Sea Turtles. In S. Krech III, J. R. McNeill and C. Metchant (eds.), Encyclopedia of World Environmental History. Berkshire Publishing Group, Great Barrington, MA.

**Papers in Peer-reviewed Journals (Total to date: 106 accepted or published)** If available, Thomson Reuters © Impact Factor follows each reference. Role explained in parenthesis. Contributors noted as \* undergraduate student, † graduate student, and § corresponding author.

106. Haag, W.R. §, A.K. Burrow, T.P. DuBose, and S.J. Price. *In press*. A broadly applicable, objective freshwater mussel assemblage health index (MAHI). *Freshwater Science*. (2.353) **(Collected field data, helped with study design, co-wrote the paper)**
105. Hutton, J. †§, S.M. Richter, and S.J. Price. 2023. Inter- and intra-specific dietary overlap in predacious bi-phasic salamanders. *Hydrobiologia* 850:2461-3480 (2.822) **(Collected field data, helped design the study, co-wrote the paper, served as co-advisor to graduate student Hutton)**
104. Greene, K. †§, J. Van Cleve, and S.J. Price. 2023. Salamander movement propensity resist effects of suprasonal drought. *Ichthyology and Herpetology* 111:109-118 (1.857) **(Collected all field data, helped design the study, co-wrote the paper, data analyses, served as co-advisor to Ph.D. candidate Greene)**
103. Ladner. J.T., J.M. Palmer, C.L. Ettinger, J.E. Stajich, T.M. Farrell, B.M. Glorioso, B. Lawson, **S.J. Price**, A.G. Stengle, D.A. Grear, and J.M. Lorch. 2022. The population genetics of the causative agent of snake fungal disease indicate recent introductions to the USA. *PLOS Biology* 20:e3001676. (9.593) **(Contributed field data, co-wrote the paper)**
102. O'Brien, A.E. \*, A.A. Stewart\* and **S.J. Price**. 2022. *Eurycea cirrigera* (Southern Two-lined Salamander). Death Feigning. *Herpetological Review* 53:97-98. **(co-wrote the note with undergraduate students O'Brien and Stewart)**

101. White, D.E.J.<sup>‡</sup>, W.R. Haag<sup>§</sup>, M.A. McGregor, and **S.J. Price**. 2022. Effects of food abundance on juvenile freshwater mussel survival and growth in aquaculture, and comparison with growth in streams. *Aquaculture* 560: 738473. (5.135) **(Helped design the study, co-wrote the paper, data analyses, served as co-advisor to White)**

100. Gadd, S.J.\*<sup>‡</sup>, J.M. Hutton<sup>‡</sup> and **S.J. Price**<sup>§</sup>. 2021. Diet of the southern ravine salamander *Plethodon richmondi*. *Herpetological Bulletin*. 158:11-15. (0.468). **(Helped design the study, co-wrote the paper, data analyses, served as academic advisor to undergraduate Gadd)**

99. Lambert, M.<sup>‡</sup>, A.N. Drayer<sup>§</sup>, W. Leuenberger, **S.J. Price**, and C. D. Barton. 2021. Evaluation of created wetlands as amphibian habitat on a reforested surface mine. *Ecological Engineering* DOI:10.1016/j.ecoleng.2021.106386 (3.512) **(Helped design the study, co-wrote the paper, data analyses, served as co-advisor to Lambert)**

98. Hutton, J.M.<sup>‡§</sup>, A.D. Macedo<sup>‡</sup>, S.C. Richter, R.W. Warne, and **S.J. Price**. 2021. Does the non-lethal gastric lavage method affect subsequent feeding behavior in adult and larval plethodontid stream salamanders? *Herpetological Review* 52:511-516. **(Helped design the study, co-wrote the paper, data analyses, served as advisor to Hutton)**

97. Hutton, J.M.<sup>‡§</sup>, **S.J. Price**, S.C. Richter, and C.D. Barton. 2021. Diet composition: a proximate mechanism explaining stream salamander declines in surface waters with elevated specific conductivity. *Global Ecology and Conservation* 29:e01719 (3.00) **(PI of project that funded the research, helped design the study, co-wrote the paper, data analyses, served as advisor to Hutton)**

96. Lorch, J.M.<sup>§</sup>, **S.J. Price**, J.S. Lankton, and A.N. Drayer. 2021. Confirmed cases of snake fungal disease in museum specimens from the USA as early as 1945. *Emerging Infectious Diseases* 27:1986-1989 (6.259) **(Co-designed the study, collected specimen data from museums, co-wrote the paper)**

95. Davis, A.G.<sup>‡§</sup>, W. Leuenberger, A.N. Drayer, **S.J. Price**. 2021. Activity, movements, and microenvironment associations of *Siren intermedia* (Lesser Siren) in a western Kentucky wetland complex. *Northeastern Naturalist* 28:114-126. (0.538) **(co-PI of project that funded the study, co-designed study, helped with field work, oversaw analyses, co-wrote the paper)**

94. Wade, B. S.<sup>‡§</sup>, B. H. Kemp\*, M. S. Vininski\*, R.D. Denton, S.C. Richter, A.N. Drayer, **S.J. Price**, B.H. Holt, K.G. Hutcheson\*, and B.M. Fitzpatrick. 2021. Kleptogenesis in Kentucky: Genetic analyses of unisexual *Ambystoma* at the southernmost extent of their range. *Herpetological Review* 52:730-734. **(Collected field data, co-wrote the paper)**

93. Zhang, W.<sup>§</sup>, **S.J. Price** and S.J. Bonner. 2021. Maximum likelihood inference for the band-read error model for capture-recapture data with misidentification. *Environmental and*



Ecological Statistics 28:405-422. (0.54) **(Contributed previously collected field data, co-wrote the paper)**

92. Haag, W.<sup>§</sup>, J. Culp, A.N. Drayer, M. McGregor, D. White<sup>‡</sup> and **S.J. Price**. 2021. Abundance of an invasive bivalve, *Corbicula fluminea*, is negatively related to growth of freshwater mussels in the wild. *Freshwater Biology* 66: 447-457. (3.835) **(Co-PI of project that funded the study, co-designed study, helped with field work, oversaw analyses, co-wrote the paper, co-advised MS student White)**

91. McKenzie, J. M.<sup>‡</sup>, **S.J. Price**<sup>§</sup>, G. M. Connette, S.J. Bonner and J.M. Lorch. 2021. Effects of snake fungal disease on short-term survival, behavior, and movement in free ranging snakes. *Ecological Applications* 31:e02251 (4.378) **(PI of project that funded the research, co-designed study, conducted field work, performed analyses, co-wrote the paper, advised MS student McKenzie)**

90. Drayer, A.N.<sup>§</sup>, J.C. Guzy, and **S.J. Price**<sup>§</sup>. 2020. Factors influencing the occupancy and abundance of *Ambystoma barbouri* (Streamside Salamander) in Kentucky streams. *Journal of Herpetology* 54:299-305 (0.77) **(PI of project that funded the research, co-designed study, conducted field work, performed analyses, co-wrote the paper)**

89. Contreras, M.<sup>§</sup>, W. Staats<sup>‡</sup>, and **S.J. Price**. 2020. Predicting and mapping Plethodontid salamander abundance using LiDAR-derived terrain and vegetation characteristics. *Forest Systems* 29:e005 (1.138) **(Helped design study, conducted field work, helped with analyses, co-wrote the paper)**

88. Drayer, A.N.<sup>§</sup>, J.C. Guzy, R. Caro, and **S.J. Price**<sup>§</sup>. 2020. Created ephemeral wetlands as habitat for amphibian populations in western Kentucky, USA. *Wetlands Ecology and Management* 28:543-558 (2.062) **(co-PI of project that funded the research, co-designed study, conducted field work, performed analyses, co-wrote the paper)**

87. Hutton, J.M.<sup>‡</sup>, **S.J. Price**<sup>§</sup>, S.J. Bonner, S.C. Richter and C.D. Barton. 2020. Occupancy and abundance of stream salamanders along a specific conductance gradient. *Freshwater Science* 39:433- 446 (2.344) **(Secured funding for the study, co-designed study, conducted field work, performed analyses, co-wrote the paper, advised MS student Hutton)**

86. Arant, P.L.<sup>‡</sup>, D. White<sup>‡</sup> and **S.J. Price**<sup>§</sup>. 2019. *Diadophis punctatus* (Ring-necked Snake) and *Storeria occipitomaculata* (Red-bellied Snake). Predation. *Herpetological Review* 50:292. **(co-wrote the paper with MS students Arant and White)**

85. Leuenberger, W.<sup>§</sup>, A.G. Davis, J.M. McKenzie<sup>‡</sup>, A.N. Drayer and **S. J. Price**<sup>§</sup>. 2019. Evaluating snake density using Passive Integrated Transponder (PIT) telemetry and spatial capture-recapture analyses for linear habitats. *Journal of Herpetology*. 53:272-281. (0.77) **(PI of project that funded the research, co-designed study, conducted field work, performed analyses, co-wrote the paper, advised MS student McKenzie)**

84. McKenzie, J.M.<sup>‡</sup>, **S.J. Price**<sup>§</sup>, J.L. Fleckenstein\*, A. N. Drayer, G.M. Connette, E. Bohuski and J.M. Lorch. 2019. Field diagnostics and seasonality of *Ophidiomyces ophiodiicola* in wild snake populations. *EcoHealth*. 16:141-150. DOI: 10.1007/s10393-018-1384-8 (2.225) **(PI of project that funded the research, co-designed study, conducted field work, performed analyses, co-wrote the paper, advised MS student McKenzie)**
83. Stengle, A., T. Farrell, K. Freitas, C. Lind, **S.J. Price**, B. Butler, T. Tadevosyan, M. Isidoro-Ayza, D. Taylor, M. Winzeler and J.M. Lorch<sup>§</sup>. 2019. Evidence of vertical transmission of the snake fungal pathogen *Ophidiomyces ophiodiicola*. *Journal of Wildlife Diseases*. 55:961-964. (1.150) **(Co-designed the study, collected field data, co-wrote the paper)**
82. Agha, M.<sup>‡§</sup>, B.D. Todd, B. Augustine, J. M. Lhotka, L. J. Fleckenstein\*, M. Lewis\*, C. Patterson<sup>‡</sup>, J.W. Stringer and **S.J. Price**. 2018. Effects of gap-based silviculture on thermal biology of a terrestrial reptile. *Wildlife Research*. 45:72-81. DOI:10.1071/WR17110 (1.244) **(Designed study, conducted field work, performed analyses, co-wrote the paper, advised MS student Agha)**
81. Hutton, J.M.<sup>‡§</sup>, R. Leloudis\* and **S.J. Price**. 2018. *Desmognathus welteri* cannibalism. *Herpetological Review*. 49:296. **(co-wrote the paper with MS student Hutton)**
80. Hutton, J.M.<sup>‡§</sup> and **S.J. Price**. 2018. *Ambystoma barbouri*. Predation. *Herpetological Review*. 49:89. **(Co-wrote the paper with MS student Hutton)**
79. Hutton, J.M.<sup>‡§</sup> and **S.J. Price**. 2018. *Eurycea bislineata*. Oophagy. *Herpetological Review*. 49:90-91. **(co-wrote the paper with MS student Hutton)**
78. Hutton, J.M.<sup>‡§</sup>, **S.J. Price** and S.C. Richter. 2018. Diet of the Black Mountain Salamander (*Desmognathus welteri*) in Southeastern Kentucky. *Herpetological Review*. 49:12-19. **(Co-designed study, conducted field work, performed analyses, co-wrote the paper, advised MS student Hutton)**
77. Guzy, J.C.<sup>‡§</sup>, E. A. Eskew<sup>‡</sup>, B.J. Halstead and **S.J. Price**. 2018. Influence of damming on anuran species richness in riparian zones: A test of the serial discontinuity concept. *Ecology and Evolution*. 8:2268-2279. DOI: 10.1002/ece3.3750 (2.537) **(Co-PI on project that funded research (before UK), designed study, conducted field work, performed analyses, co-wrote the paper)**
76. Miller, D.<sup>§</sup>, E. Grant, E. Muths, S. Amburgey, M. Adams, M. Joseph, J. H. Waddle, P. Johnson, M. Ryan, B. Schmidt, D. Calhoun, C. Davis, R.Fisher, D. Green, B. Hossack, T. Rittenhouse, S. Walls, L. Bailey, S. Cruickshank, G.Fellers, T. Gorman, C. Haas, W. Hughson, D. Pilliod, **S.J. Price**, A. Ray, W. Sadinski, D. Saenz, W. Barichivich, A. Brand, C. Brehme, R. Dagit, K. Delaney, B. Glorioso, L. Kats, P. Kleeman, C. Pearl, C. Rochester, S. Riley, M. Roth, and B. Sigafus. 2018. Quantifying climate sensitivity and climate driven

change in North American amphibian communities. *Nature Communications*. 9:3926 (12.124)  
**(Contributed field data, co-wrote the paper)**

75. Murphy M.O.<sup>‡</sup>, K. Jones<sup>‡</sup>, **S.J. Price**, D.W. Weisrock<sup>§</sup>. 2018. A genomic assessment of population structure and gene flow in an aquatic salamander identifies the roles of spatial scale, barriers, and river architecture. *Freshwater Biology*. 63: 407-419 DOI: 10.1111/fwb.13071 (3.255) **(PI on project that funded research, designed study, conducted field work, performed analyses, co-wrote the paper, co-advised MS student Murphy (UK Biology))**

74. **Price, S. J.**<sup>§</sup>, S.B. Freytag<sup>‡</sup>, S.J. Bonner, B. Muncy<sup>‡</sup>, A.N. Drayer, J.M. Hutton<sup>‡</sup> and C.D. Barton. 2018. Mountaintop removal mining alters stream salamander population dynamics. *Diversity and Distributions*. 24:1242-1251. DOI: 10.1111/ddi.12760 (4.391) **(Designed study, conducted field work, performed analyses, co-wrote the paper, co-advised MS students Freytag, Muncy and Hutton)**

73. Relyea, R.A.<sup>§</sup>, P.R. Stephens, L.N. Barrow, A.R. Blaustein, P.W. Bradley, J.C. Buck, A. Chang, J. P. Collins, B. Crother, J. Earl, S. S. Gervasi, J. T. Hoverman, O. Hyman, E. Moriarty Lemmon, T. M. Luhring, M. Michelson, C. Murray, **S.J. Price**, R.D. Semlitsch, A. Sih, A.B. Stoler, N. VandenBroek, A. Warwick, G. Wengert, and J. I. Hammond. 2018. Phylogenetic patterns of trait and trait plasticity evolution: Insights from amphibian embryos. *Evolution*. 72:663-678. DOI:10.1111/evo.13428 (4.201) **(Conducted lab experiments to provide data, co-wrote the paper)**

72. Agha, M.<sup>‡§</sup>, **S.J. Price**, A. J. Nowakowski, B. Augustine and B.D. Todd. 2017. Mass mortality of eastern box turtles (*Terrapene carolina*) due to upper respiratory disease and associated with atypical cold temperatures and Ranavirus. *Diseases of Aquatic Animals*. 124:91-100. (1.752) **(Designed study, conducted field work, performed analyses, co-wrote the paper, advised MS student Agha)**

71. Agha, M.<sup>‡§</sup>, A.L. Smith, J.E. Lovich, D. Delaney, J.R. Ennen, J. Briggs, L.J. Fleckenstein\*, L.A. Tennant, S.R. Puffer, A. Walde, T.R. Arundel, **S.J. Price** and B.D. Todd. 2017. Mammalian mesocarnivore visitation at desert tortoise burrows in a wind farm. *Journal of Wildlife Management*. 81:1117-1124. (1.725) **(Performed analyses, co-wrote the paper, advised MS student Agha)**

70. Hutton, J.M.<sup>‡§</sup>, **S.J. Price** and S.C. Richter. 2017. The diet of the Cumberland Plateau Salamander (*Plethodon kentucki*) in an old growth forest of southeastern Kentucky *American Midland Naturalist* 178:144-150 (0.592) **(Co-designed study, conducted field work, performed analyses, co-wrote the paper, advised MS student Hutton)**

69. Todd, B.D.<sup>§</sup>, A.J. Nowakowski, J.P. Rose<sup>‡</sup>, and **S.J. Price**. 2017. Species traits explaining sensitivity of snakes to human land use estimated from citizen science data. *Biological Conservation* 206:31-36. (3.985) **(Co-designed study, managed and collected all data used in analysis, co-wrote the paper)**

68. Murphy, M.O.<sup>‡</sup>, **S.J. Price**<sup>§</sup>, P.M. Hime<sup>‡</sup>, A.N. Drayer and D.W. Weisrock. 2016. A review and comparison of common mudpuppy (*Necturus maculosus*) capture methods and the description of a new trap design. *Herpetological Review* 48:575-578. **(PI on project that funded research, designed study, conducted field work, performed analyses, co-wrote the paper, co-advised MS student Murphy (UK Biology))**
67. Lorch, J.M. <sup>§</sup>, J.S. Lankton, S. Knowles, K. Michell, J.L. Edwards, J.M. Kapfer, R.A. Staffen, E.R. Wild, K.Z. Schmidt, A.E. Ballmann, D. Blodgett, T.M. Farrell, B.M. Glorioso, L.A. Last, **S.J. Price**, K.L. Schuler, C.E. Smith, J.F.X. Wellehan Jr., and D.S. Blehert. 2016. Snake fungal disease: An emerging threat to wild snakes. *Philosophical Transactions of the Royal Society B*. 371:DOI: 10.1098/rstb.2015.0457 (5.847) **(Contributed field data, co-wrote the paper)**
66. Oldham, C. <sup>‡</sup>, J.L. Fleckenstein\*, W. Boys\*, and **S.J. Price**<sup>§</sup>. 2016. Enhancing ecological investigations of snakes with Passive Integrated Transponder (PIT) telemetry. *Herpetological Review* 47: 385-388. **(Designed study, field data collection, co-wrote the paper, advised MS student Oldham)**
65. Kirchberg, J.\*<sup>‡</sup>, K.K. Cecala<sup>§</sup>, **S.J. Price**, E.M. White and D.G. Haskell. 2016. Evaluating the impacts of small impoundments on stream salamanders. *Aquatic Conservation: Marine and Freshwater Ecosystems* 26:1197-1206. (2.136) **(Designed study, data analysis, co-wrote the paper)**
64. Todd, B.D. <sup>§</sup>, J.P. Rose<sup>‡</sup>, **S.J. Price** and M.E. Dorcas. 2016. Using citizen science data to identify the sensitivity of species to human land use. *Conservation Biology*. 30:1266–1276 (4.165) **(Co-designed study, managed and collected all data used in analysis, co-wrote the paper)**
63. Bonner, S.J. <sup>§</sup>, M.R. Schofield, P. Noren and **S.J. Price**. 2016. Extending the latent multinomial model with complex error processes and dynamic Markov bases. *Annals of Applied Statistics* 10:246-263. (1.46) **(Contributed previously collected field data, co-wrote the paper)**
62. Grant, E.H.C. <sup>§</sup>, D. A.W. Miller, E. Muths, M.J. Adams, S.M. Amburgey, T. Chambert, S.S. Cruickshank, R.N. Fisher, D.M. Green, B.R. Hossack, P.T.J. Johnson, M.B. Joseph, T. Rittenhouse, M. Ryan, B.R. Schmidt, H. Waddle, S.C. Walls, L. L. Bailey, G. Fellers, T.A. Gorman, A.M. Ray, D. Pilliod, **S.J. Price** and D. Saenz. 2016. Quantitative evidence for the effects of multiple drivers on continental-scale amphibian declines. *Scientific Reports* 6:25625 (5.56) **(Contributed field data, co-wrote the paper)**
61. **Price, S.J.** <sup>§</sup>, B.L. Muncy<sup>‡</sup>, S.J. Bonner, A. Drayer and C.D. Barton. 2016. Effects of mountaintop removal mining and valley fills on occupancy and abundance of stream salamanders. *Journal of Applied Ecology* 53:459-468. (4.564) **(Designed study, conducted field work, performed analyses, co-wrote the paper, co-advised MS student Muncy)**

60. Murphy, M.O. †, M. Agha †, T.A. Maigret †, **S.J. Price** §, and M.E. Dorcas. 2016. The effects of urbanization on body size of larval stream salamanders. *Urban Ecosystems* 19:275-286. (2.685) **(Research was developed as part of my Urban Ecology course; Designed study, conducted field work and collected all data used, performed analyses, co-wrote the paper, co-advised MS student Murphy, advised MS student Agha)**

59. **Price, S.J.** §, C.R. Oldham †, W.M. Boys\*, and L.J. Fleckenstein\*. 2015. First record of snake fungal disease in Kentucky. *Journal of the Kentucky Academy of Science* 76:47-48. **(Designed study, field data collection, co-wrote the paper, advised MS student Oldham; Boys was a NSF REU student (UK Biology))**

58. Cecala, K.K. §, **S.J. Price**, and M.E. Dorcas. 2015. Stream salamanders accurately assess size-dependent predation threats. *Herpetologica* 71:184-189. (1.140) **(Designed study, conducted field work, performed analyses, co-wrote the paper)**

57. Oldham, C.R. †, **S.J. Price** §, W.A. Boys\*, and L.J. Fleckenstein\*. 2015. *Regina septemvittata* (Queensnake). Defensive behavior/death-feigning. *Herpetological Review* 46:51-52. **(Field data collection, co-wrote the paper, advised MS student Oldham, Boys was a NSF REU student (UK Biology))**

56. Agha, M. †, B. Augustine †, J.E. Lovich, D. Delaney, B. Sinervo, M.O. Murphy †, J.R. Ennen, R. Cooper and **S.J. Price** §. 2015. Using motion-sensor camera technology to infer seasonal activity and thermal niche of the desert tortoise (*Gopherus agassizii*). *Journal of Thermal Biology* 49/50:119-126. (1.505) **(Designed study, performed analyses, co-wrote the paper, co-advised MS student Murphy, advised MS student Agha)**

55. Agha, M. †, D. Delaney, J.E. Lovich, J. Briggs, M. Austin, and **S.J. Price** §. 2015. Nelson's big horn sheep (*Ovis canadensis nelsoni*) trample Agassiz's desert tortoise (*Gopherus agassizii*) burrow at a California wind energy facility. *Bulletin of the Southern California Academy of Science* 114:58-62. **(Designed study, performed analyses, co-wrote the paper, advised MS student Agha)**

54. Agha, M. †, M.O. Murphy †, J.E. Lovich, J.R. Ennen, C.R. Oldham †, K. Meyer, C. Bjurlin, M. Austin, S. Madrak, C. Loughran, L. Tennant, and **S.J. Price** §. 2015. The effect of research activities and winter precipitation on defensive voiding behavior of Agassiz's desert tortoises (*Gopherus agassizii*). *Wildlife Research* 41:641-649. (1.487) **(Designed study, performed analyses, co-wrote the paper, co-advised MS student Murphy, advised MS students Agha and Oldham)**

53. Agha, M. †, J. E. Lovich, J. R. Ennen, B. Augustine †, T. R. Arundel, M. O. Murphy †, D. Delaney, J. Briggs, K. Meyer, C. Bjurlin, M. Austin, S. Madrak, L. Tennant, and **S. J. Price** §. 2015. Turbines and terrestrial vertebrates: variation in tortoise survivorship between a wind energy facility and an adjacent undisturbed wildland area in the desert southwest (USA). *Environmental Management* 56:332-341. (1.724) **(Designed study, performed analyses, co-**

wrote the paper, advised MS students Agha and Oldham, co-advised MS student Murphy)

52. Fleckenstein, J.L.\*, M. Agha<sup>‡</sup>, and **S.J. Price<sup>§</sup>**. 2015. *Terrapene carolina*. Diet. Herpetological Review 46:85. (co-wrote the paper, advised MS student Agha)

51. Muncy, B.L.<sup>‡</sup>, **S.J. Price<sup>§</sup>**, S.J. Bonner and C.D. Barton. 2014. Mountaintop removal mining reduces stream salamander occupancy and richness in southeastern Kentucky (USA). Biological Conservation 180:115-121. (3.762) (Designed study, conducted field work, performed analyses, co-wrote the paper, co-advised MS student Muncy)

50. Akins, C.\* , C.D. Ruder\*, **S.J. Price**, L.A. Harden<sup>‡§</sup>, J.W. Gibbons, and M.E. Dorcas. 2014. Factors affecting body temperature variation and habitat use in free-ranging diamondback terrapins. Journal of Thermal Biology 44:63-69. (1.505) (Designed study, conducted field work, performed analyses, co-wrote the paper)

49. Guzy, J.C. <sup>§</sup>, **S.J. Price**, and M.E. Dorcas. 2014. Using multiple methods to assess detection probabilities of riparian-zone anurans: implications for monitoring. Wildlife Research 41:243-257. (1.487) (Co-PI on project that funded research (before UK), designed study, conducted field work, performed analyses, co-wrote the paper)

48. Witzcak, L.R.\* , J.C. Guzy<sup>‡§</sup>, **S.J. Price**, J.W. Gibbons, and M.E. Dorcas. 2014. Temporal and spatial variation in survivorship of diamondback terrapins (*Malaclemys terrapin*). Chelonian Conservation and Biology 13:146-151. (0.738) (Designed study, conducted field work, performed analyses, co-wrote the paper)

47. Hime, P.M.<sup>‡§</sup> and **S.J. Price**. 2014. *Aneides aeneus*. Death feigning/immobility. Herpetological Review 45:470. (Made field observation, co-wrote the paper with PhD student Hime (UK Biology))

46. Hime, P.M.<sup>‡§</sup>, A.N. Drayer, and **S.J. Price**. 2014. *Necturus maculosus*. Larval guarding. Herpetological Review 45:474. (Made field observation, co-wrote the paper with PhD student Hime (UK Biology))

45. Mairret, T.A. <sup>‡</sup>, J.J. Cox<sup>§</sup>, D.R. Schneider, C.D. Barton, **S.J. Price** and J.L. Larkin. 2014. Effects of timber harvest within streamside management zones on salamander populations in ephemeral streams of southeastern Kentucky. Forest Ecology and Management 324:46-51. (2.487) (Performed analyses, co-wrote the paper)

44. Barrett, K. and **S.J. Price<sup>§</sup>**. 2014. Urbanization and stream salamanders: a review, conservation options, and research needs. Freshwater Science 33:927-940. (1.941) (Designed study, conducted field work, performed analyses, co-wrote the paper)

43. Muncy, B.L.<sup>‡</sup>, **S.J. Price<sup>§</sup>** and M.E. Dorcas. 2014. Capture probability and survivorship of the southern two-lined salamander (*Eurycea cirrigera*) in drought and non-drought

conditions. *Copeia* 2014:366-371. (0.901) **(Designed study, conducted field work and collected all field data, performed analyses, co-wrote the paper, co-advised MS student Muncy)**

42. Richter, S.C. §, **S.J. Price**, C.S. Kross<sup>‡</sup>, J.R. Alexander\* and M.E. Dorcas. 2013. Upland habitat quality and historic landscape composition influence genetic variation of a pond-breeding salamander. *Diversity* 5: 724-733. **(Designed study, conducted field work and collected all data, performed analyses, co-wrote the paper)**

41. Guzy, J.C. §, **S.J. Price** and M.E. Dorcas. 2013. An assessment of the spatial configuration of greenspace and aquatic habitats on semi-aquatic turtle occupancy and species richness in a suburban landscape. *Landscape and Urban Planning* 117:46-56. (2.606) **(Co-PI on project that funded research (before UK), designed study, conducted field work, performed analyses, co-wrote the paper)**

40. **Price, S.J.** §, J.C. Guzy, L. Witzcak\* and M.E. Dorcas. 2013. Do ponds on golf courses provide suitable habitat for wetland-dependent animals? An assessment of turtle abundances. *Journal of Herpetology* 47:243-250. (0.893) **(Co-PI on project that funded research (before UK), designed study, conducted field work, performed analyses, co-wrote the paper)**

39. Cecala, K.K. <sup>‡§</sup>, **S.J. Price** and M.E. Dorcas. 2013. Modeling the effects of life-history traits on estimation of population parameters for a cryptic species. *Freshwater Science* 32:116-125. (1.423) **(Designed study, conducted field work and collected all data, performed analyses, co-wrote the paper)**

38. Hunt, S.D.\* , J.C. Guzy<sup>§</sup>, **S.J. Price**, B.J. Halstead, E.A. Eskew\* and M.E. Dorcas. 2013. Response of riparian zone reptile communities to damming and urbanization. *Biological Conservation* 157:277-284. (4.036) **(Co-PI on project that funded research (before UK), designed study, conducted field work, performed analyses, co-wrote the paper)**

37. Kern, M.M.\* , J.C. Guzy<sup>§</sup>, **S.J. Price**, S.D. Hunt\*, E.A. Eskew\* and M.E. Dorcas. 2012. Riparian zone amphibians and reptiles within the Broad River basin, South Carolina. *Journal of North Carolina Academy of Science* 128:81-87. **(Co-PI on project that funded research (before UK), designed study, conducted field work, performed analyses, co-wrote the paper)**

36. **Price, S.J.** §, R.A. Browne and M.E. Dorcas. 2012. Resistance and resilience of a stream salamander to supra-seasonal drought. *Herpetologica* 68:312-323. (1.08) **(Designed study, conducted field work and collected all data, performed analyses, co-wrote the paper)**

35. Foley, S.M.\* , **S.J. Price**<sup>§</sup> and M.E. Dorcas. 2012. Nest-site selection and nest depredation of semi-aquatic turtles on golf courses. *Urban Ecosystems* 15:489-497. **(Co-PI on project that funded research (before UK), designed study, conducted field work, performed analyses, co-wrote the paper)**

34. Eskew, E.A.\*, **S.J. Price**<sup>§</sup> and M.E. Dorcas. 2012. Effects of river-flow regulation on anuran occupancy and abundance in riparian zones. *Conservation Biology* 26:504-512. (4.355) **(Co-PI on project that funded research (before UK), designed study, conducted field work, performed analyses, co-wrote the paper)**
33. **Price, S.J.**<sup>§</sup>, R.A. Browne and M.E. Dorcas. 2012. Evaluating the effects of urbanisation on salamander abundances using a before-after control-impact design. *Freshwater Biology* 57:193-203. (3.933) **(Designed study, conducted field work and collected all data, performed analyses, co-wrote the paper)**
32. **Price, S.J.**<sup>§</sup>, E.A. Eskew\*, K.K. Cecala\*, R.A. Browne and M.E. Dorcas. 2012. Estimating survival of a streamside salamander: Importance of temporary emigration, capture response and location. *Hydrobiologia* 679:205-215. (1.985) **(Designed study, conducted field work and collected all data, performed analyses, co-wrote the paper)**
31. **Price, S.J.**<sup>§</sup>, and M.E. Dorcas. 2011. The Carolina Herp Atlas: an online, citizen-science approach to document amphibian and reptile occurrences. *Herpetological Conservation and Biology* 6:287-296. (0.513) **(Designed study, conducted field work and collected all data, performed analyses, co-wrote the paper)**
30. **Price, S.J.**<sup>§</sup>, K.K. Cecala\*, R.A. Browne and M.E. Dorcas. 2011. Effects of urbanization on occupancy of stream salamanders. *Conservation Biology* 27:547-555. (4.692) **(Designed study, conducted field work and collected all data, performed analyses, co-wrote the paper)**
29. Connette, G.M.\*<sup>§</sup>, **S.J. Price** and M.E. Dorcas. 2011. Influence of abiotic factors on activity in a larval stream salamander assemblage. *Southeastern Naturalist* 10: 109-120. (0.487) **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**
28. Eskew, E.A.\*, **S.J. Price** and M.E. Dorcas. 2011. Survivorship of painted turtles (*Chrysemys picta*) in recently modified suburban landscapes. *Chelonian Conservation and Biology* 9:244-249. (0.913) **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**
27. Cecala, K.K.\*<sup>§</sup>, **S.J. Price** and M.E. Dorcas. 2010. Ecology of juvenile northern watersnakes (*Nerodia sipedon*) inhabiting low-order streams. *Amphibia-Reptilia* 31:169-174. (0.976) **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**
26. Eskew, E.A.\*, **S.J. Price**<sup>§</sup> and M.E. Dorcas<sup>§</sup>. 2010. Survival and recruitment of semi-aquatic turtles in an urbanized region. *Urban Ecosystems* 13:365-374. **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**



25. Birx-Raybuck, D.\* , **S.J. Price** and M.E. Dorcas<sup>§</sup>. 2010. Pond age and riparian zone proximity influence anuran occupancy of urban retention ponds. *Urban Ecosystems* 13:181-190. **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**
24. Cecala, K.K.\* <sup>§</sup>, **S.J. Price** and M.E. Dorcas. 2009. Evaluating existing movement hypotheses in linear systems using larval stream salamanders. *Canadian Journal of Zoology* 87: 292-298. (1.254) **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**
23. Harden, L.A.\* , **S.J. Price**, and M.E. Dorcas<sup>§</sup>. 2009. Terrestrial activity and habitat selection of eastern mud turtles inhabiting a golf course pond: Implications for habitat management. *Copeia* 2009: 78-84. (1.044) **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**
22. Westfall, M.C.\* , K.K. Cecala\* , **S.J. Price**<sup>§</sup>, and M.E. Dorcas. 2008. Patterns of Trombiculid mite (*Hannemania dunni*) parasitism among Plethodontid salamanders in the Western Piedmont of North Carolina. *Journal of Parasitology* 94: 631-634. (1.165) **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**
21. Eskew, E.A.\* , **S.J. Price**, and M.E. Dorcas<sup>§</sup>. 2008. New distributional records for reptiles and amphibians of the Charlotte Metropolitan area of North Carolina. *Herpetological Review* 39:245-246. **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**
20. Pittman, S.E.\* , A.L. Jendrek\* , **S.J. Price**, M.E. Dorcas<sup>§</sup>. 2008. Habitat selection and site fidelity of Cope's Gray Treefrog (*Hyla chrysoscelis*) at the aquatic-terrestrial ecotone. *Journal of Herpetology* 42: 378-385. (0.888) **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**
19. Hester, J.M.\* , **S.J. Price**<sup>§</sup>, and M.E. Dorcas. 2008. Effects of relocation on movements and home ranges of eastern box turtles. *Journal of Wildlife Management*. 72: 772-777. (1.323) **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**
18. **Price, S.J.**, R.W. Howe<sup>§</sup>, J. Hanowski, R.R. Regal, G.J. Niemi, and C.R. Smith. 2007. Are anurans of Great Lakes coastal wetlands reliable indicators of ecological condition? *Journal of Great Lakes Research* 33(Special Issue 3): 211-223. (1.18) **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**
17. Cecala, K.K.\* , **S.J. Price**, and M.E. Dorcas. 2007. *Pseudotriton ruber ruber*. Polymelia. *Herpetological Review* 38:434. **(Field observation, co-wrote the paper)**

16. Failey, E.L.\*, J.C. McCoy\*, **S.J. Price** and M.E. Dorcas. 2007. Ecology of turtles inhabiting golf course and farm ponds in the western Piedmont of North Carolina. *Journal of North Carolina Academy of Science* 123: 221-232. **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**

15. Cecala, K.K.\*, **S.J. Price**, and M.E. Dorcas<sup>§</sup>. 2007. Diet of larval *Pseudotriton ruber* examined using a non-lethal stomach-flushing technique. *Journal of Herpetology* 41: 741-745. (0.863) **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**

14. McCoy, J.C.\*, E.L. Failey\*, **S.J. Price** and M.E. Dorcas<sup>§</sup>. 2007. An assessment of leech parasitism on semi-aquatic turtles in the western Piedmont of North Carolina. *Southeastern Naturalist* 6: 191-202. (0.402) **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**

13. Cecala, K.K.\*, **S.J. Price**, and M.E. Dorcas<sup>§</sup>. 2007. A comparison of the effectiveness of recommended doses of MS-222 (Tricaine Methane Sulfonate) and Orajel® (Benzocaine) for amphibian anesthesia. *Herpetological Review* 38: 63-66. **(Designed study, data collection, performed analyses, co-wrote the paper)**

12. **Price, S.J.**<sup>§</sup>, M.E. Dorcas, A.L. Gallant, R.W. Klaver and J.D. Willson. 2006. Three decades of urbanization: Estimating the impact of land cover change on stream salamander populations. *Biological Conservation* 133: 436-441. (2.854) **(Designed study, performed analyses, co-wrote the paper)**

11. Budischak, S.A.\*, J.M. Hester\*, **S.J. Price**, and M.E. Dorcas<sup>§</sup>. 2006. Natural history of box turtles, *Terrapene carolina*, in an urbanized landscape. *Southeastern Naturalist* 5: 191-204. (0.479) **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**

10. Kornilev, Y.K.\*, **S.J. Price** and M.E. Dorcas<sup>§</sup>. 2006. Between a rock and a hard place: responses of eastern box turtles (*Terrapene carolina*) when trapped between railroad tracks. *Herpetological Review* 37: 145-148. **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**

9. Kornilev, Y.K.\*, **S.J. Price**, E.P. Hill\*, and M.E. Dorcas. 2006. *Ambystoma maculatum*. Mortality. *Herpetological Review* 37: 196. **(Field observation, co-wrote the paper)**

8. Gooch, M.M.\*, A.M. Heupel\*, **S.J. Price**<sup>§</sup>, and M.E. Dorcas. 2006. The effects of survey protocol on detection probabilities and site occupancy estimates of summer breeding anurans. *Applied Herpetology* 3: 129-142. **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**

7. Kirilin, M.S.\*, M.M. Gooch\*, **S.J. Price**, and M.E. Dorcas. 2006. Predictors of winter anuran calling activity in the North Carolina Piedmont. *Journal of North Carolina Academy of Science*

Science 122:10-18. **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**

6. Dorcas, M.E., **S.J. Price**, and G.E. Vaughan. 2006. Amphibians and reptiles of the Great Falls bypassed reaches in South Carolina. *Journal of North Carolina Academy of Science* 122:1-9. **(Conducted field work and data collection, performed analyses, co-wrote the paper)**

5. **Price, S.J.**<sup>§</sup>, D.R. Marks, R.W. Howe, J. Hanowski, and G.J. Niemi. 2005. The importance of spatial scale for conservation and assessment of anuran populations in coastal wetlands of the western Great Lakes. *Landscape Ecology* 20:441-454. (2.173) **(Designed study, conducted field work and data collection, performed analyses, co-wrote the paper)**

4. **Price, S.J.** and J.M. Jaskula. 2005. *Hemidactylium scutatum*. Nesting Ecology. *Herpetological Review*. 36:159 **(Performed field work, co-wrote the paper)**

3. **Price, S.J.** and J.M. Jaskula. 2005. *Hemidactylium scutatum*. Terrestrial Microhabitat. *Herpetological Review*. 36:159. **(Performed field work, co-wrote the paper)**

2. **Price, S.J.** and J.M. Jaskula. 2002. *Hemidactylium scutatum*. Record Size. *Herpetological Review*. 33:298. **(Performed field work, co-wrote the paper)**

1. **Price, S.J.** 2000. Geographic Distribution. *Hemidactylium scutatum*. *Herpetological Review*. 31:249. **(Performed field work, co-wrote the paper)**

#### **Extension/Popular Publications (Total to date: 4)**

4. **Price, S.J.** and A.N. Drayer. 2016. Kentucky Snake Identification (UK Extension). <http://kysnakes.ca.uky.edu/> **(Developed all content for website)**

3. Agha, M., B. Augustine, and **S.J. Price**. 2015. Gap-based forest harvesting and the thermal ecology of eastern box turtles. *Kentucky Woodlands Magazine* 10:20-21. **(Co-wrote article based on data collected)**

2. Williams, J., **S.J. Price** and P. Wood. 2014. Salamanders and surface mining in the Appalachian Mountains. *Partners in Amphibian and Reptile Conservation Monthly Newsletter* 12:17-18 **(co-wrote article based on data collected)**

1. **Price, S.J.** 2013. Salamanders of Kentucky. *Kentucky Woodlands Magazine* 8: 8-9. **(Wrote article based on data collected)**

#### **Final Reports (Total to date: 5)**

5. **Price, S.J.** and W.R. Haag. 2022. Assessing the role of invasive Asian Clams (*Corbicula fluminea*) in native mussel declines. Prepared for Kentucky Waterways Alliance and US Fish and Wildlife Service.

4. Tomke, S.A. and **S.J. Price**. 2021. Status assessment of the Eastern Hellbender (*Cryptobranchus alleganiensis alleganiensis*) in Kentucky using eDNA. Prepared for the Kentucky Department of Fish and Wildlife Resources.
3. **Price, S.J.** and W.R. Haag. 2019. Using juvenile mussels as bioindicators to identify causes and sources of stream degradation associated with mussel declines. Prepared for the Kentucky Waterways Alliance and US Fish and Wildlife Service.
2. **Price, S.J.**, A. N. Drayer and J. MacGregor. 2019. Distribution, occupancy and abundance of *Ambystoma barbouri* (Streamside Salamander) in relation to land-use and water chemistry in central Kentucky streams. Prepared for the Kentucky Department of Fish and Wildlife Resources.
1. **Price, S.J.** and T. Kreher. 2016. Amphibian habitat assessment at the Paducah Gaseous Diffusion Plant and the West Kentucky State Wildlife Management Area. Prepared for University of Kentucky Center for Applied Energy Research, Kentucky Research Consortium for Energy and Environment. UK/KRCEE Doc# P27.16.2015

#### **RECENT PRESENTATIONS (2013-2022)**

Contributors noted as \* undergraduate student, † graduate student, and § presenter.

#### **Invited Presentations (Total to date: 15)**

16. **Price, S.J.** § 2023. Coal Mining and Amphibians. Lessons from 10 years of research in the Central Appalachians. Eastern Kentucky University. October 27.
15. **Price, S.J.** § 2022. Effects of Habitat Alteration on Amphibians: Correlative Studies, Proximate Mechanisms and Conservation Solutions. Northern Kentucky University. April 22.
14. **Price, S.J.** § 2022. Advancing understanding of Queensnake population ecology and disease impacts through passive integrated transponder telemetry. Queensnake Symposium, Ontario Canada (online). March 10.
13. **Price, S.J.** § 2022. Understanding habitat alteration on amphibians: From correlative studies to management solutions. Athens State University. March 1.
12. **Price, S.J.** § 2022. Biodiversity of aquatic systems in Appalachia. Forest Stewards Guild, Aquatic Biodiversity Seminar. 25 January.
11. **Price, S.J.** § 2020. Effects of Habitat Alteration on Amphibians: Correlative Studies, Proximate Mechanisms and Conservation Solutions. Murray State University. November 6.
10. **Price, S.J.** § 2020. Snake Fungal Disease in Kentucky. KY Chapter of The Wildlife Society Annual Meeting (Poster). February 20-21. Lake Cumberland State Resort Park.

9. **Price, S.J.**<sup>§</sup> 2018. Patterns and processes in urban environments allow for unique ecological investigations: a herpetological perspective. Centre College. 22 October. Danville, KY.

8. **Price, S.J.**<sup>§</sup> 2016. Patterns and processes in urban environments allow for unique ecological investigations: a herpetological perspective. Experimental Urban Ecology Workshop, Ecological Research and Education Center, University of Kentucky. 12 November. Lexington KY.

7. **Price, S.J.**<sup>§</sup> 2015. Snake fungal disease in Kentucky. Department of Forestry, University of Kentucky. 30 November. Lexington KY.

6. **Price, S.J.**<sup>§</sup> 2015. Quantifying the effects of habitat disturbance on amphibian populations in the southeastern United States. Middle Tennessee State University 8 October. Murfreesboro TN.

5. **Price, S.J.**<sup>§</sup>, Muncy, B.L.<sup>‡</sup>, and C.D. Barton. 2015. Mountaintop removal and valley fills reduce stream salamander occupancy, abundances, and richness in eastern Kentucky. Department of Biology and Chemistry, Morehead State University, 24 March. Morehead, KY.

4. **Price, S.J.**<sup>§</sup>, Muncy, B.L.<sup>‡</sup>, and C.D. Barton. 2014. Effects of mountaintop removal and valley fill on stream salamander populations. Biology Department, Davidson College, 18 November. Davidson NC. 18 November Davidson NC.

3. **Price, S.J.**<sup>§</sup>, Muncy, B.L.<sup>‡</sup>, and C.D. Barton. 2014. Effects of mountaintop removal and valley fill on stream salamander occupancy and abundance. USFWS, 21 July Frankfort KY.

2. **Price, S.J.**<sup>§</sup>, Muncy, B.L.<sup>‡</sup>, and C.D. Barton, and 2014. Effects of mountaintop removal and valley fill on stream salamanders. Water Quality Roundtable, Eastern Kentucky University, 11 April Richmond, KY.

1. **Price, S.J.**<sup>§</sup> 2013. Amphibian populations in dynamic and degraded landscapes. Biology Department, Centre College, 3 December. Danville, KY.

#### **Other Selected Presentations (Total to date: 78)**

78. Davenport, R. N.<sup>‡§</sup>, C.D. Barton, V. Burgess\*, J.J. Cox, T. Fearer, J. L. Larkin, L. Sherman<sup>‡</sup> M. Varias\*, **S.J. Price**. 2023. Effects of the Forestry Reclamation Approach on avian community composition in Appalachia. American Ornithological Society & Society of Canadian Ornithologists Joint Conference. (Poster) London, Ontario, Canada. August 8-12.

77. Davenport, R. N.<sup>‡§</sup>, C.D. Barton, V. Burgess\*, J.J. Cox, T. Fearer, J. L. Larkin, L. Sherman<sup>‡</sup> M. Varias\*, **S.J. Price**. 2023. Effects of forest reclamation on avian breeding

habitat assemblages within reclaimed surface mines. (Poster) Wilson Ornithological Society 2023 Annual Meeting. Allentown, PA. June 20-23.

76. Greene, K.M. <sup>‡§</sup>, J. Van Cleve, and **S.J. Price**. 2023. Salamander movement propensity resist effects of suprasonal drought. Association of Southeastern Biologists 2023. (Talk) Winston-Salem, NC. March 23-26.

75. Davenport, R. N. <sup>‡§</sup>, C.D. Barton, V. Burgess\*, J.J. Cox, T. Fearer, J. L. Larkin, L. Sherman<sup>‡</sup> M. Varias\*, **S.J. Price**. 2023. Effects of forest reclamation and landscape features on avian occupancy, species richness, and abundance in Appalachia. Association of Southeastern Biologists 2023. (Poster) Winston-Salem, NC. March 23-26.

74. Davenport, R. N. <sup>‡§</sup>, C.D. Barton, V. Burgess\*, J.J. Cox, T. Fearer, J. L. Larkin, L. Sherman<sup>‡</sup>, M. Varias\*, **S.J. Price**. 2023. Effects of forest reclamation and landscape features on avian occupancy, species richness, and abundance in Appalachia. Kentucky Chapter of The Wildlife Society Annual Meeting. (Poster) Barren River State Park, KY. February 23-24.

73. Greene, K.M. <sup>‡§</sup>, J. Van Cleve, and **S.J. Price**. 2023. Salamander movement propensity resist effects of suprasonal drought. Southeast Partners in Amphibian and Reptile Conservation. (Poster) Black Mountain, NC. February 23-26. (Greene was awarded 2<sup>nd</sup> place in student talks)

72. Sherman, L. <sup>‡§</sup>, C.D. Barton, V. Burgess\*, J.J. Cox, T. Fearer, J. L. Larkin, R. N. Davenport<sup>‡</sup>, R. N. M. Varias\*, **S.J. Price**. 2023. Pond-breeding amphibian responses to forest reclamation approach on reclaimed surface mines. Southeast Partners in Amphibian and Reptile Conservation. (Poster) Black Mountain, NC. February 23-26.

71. Tomke, S.A. <sup>§</sup>, Z. Couch and **S.J. Price**. 2022. Determining the current distribution and population status of Eastern Hellbenders in Kentucky using Environmental DNA. The Wildlife Society Annual Meeting (Talk) Nov 6-10, Spokane, WA.

70. Foley, M. <sup>§</sup>, A. Law, A. Drayer, **S.J. Price**, W.R. Haag, L. Moe and D. Weisrock. 2022. Assessing the filtering potential of freshwater bivalves using 16S rRNA gene sequencing and gut microbiome analysis. Freshwater Mussel Conservation Society Workshop (Poster) Aug 8-11, Duck River, TN.

69. Burrow, A.K., **S.J. Price** and W.R. Haag. 2022. A broadly applicable, objective tool for assessing mussel assemblage health. Joint Aquatic Sciences Meeting (Talk) May 14- 20, Grand Rapids, MI

68. Ibach, A., A.K. Burrow, J. Geist, **S.J. Price**, C. Barton, and W.R. Haag. 2022. Relationships between stream sediment characteristics and freshwater mussels. Joint Aquatic Sciences Meeting (Talk) May 14- 20, Grand Rapids, MI

67. Haag, W.R.<sup>§</sup>, A.K. Burrow, J.K. Costanza, A.J. Ibach, Y. Ouyang, **S.J. Price**, and G. Sun. 2022. Associations between watershed conditions and faunal health across the eastern US. Invited presentation to the 68th Annual Southern Hardwood Forest Research Group Meeting. March 22, 2022 Virtual Conference.
66. Tomke, S.A.<sup>§</sup>, **S.J. Price** and Z. Couch. 2022. Current distribution and status of Eastern Hellbenders in Kentucky. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting (Poster). February 24- 26. Virtual Conference.
65. Drayer, A.N.<sup>§</sup>, J.C. Guzy, and **S.J. Price**. 2020. Distribution, occupancy and abundance of *Ambystoma barbouri* in central Kentucky streams. KY Chapter of The Wildlife Society Annual Meeting (Poster). February 20-21. Lake Cumberland State Resort Park.
64. Drayer, A.N.<sup>§</sup>, **Price, S.J.**, J.C. Guzy, and R. Caro. 2020. Created ephemeral wetlands as habitat for amphibian populations in western Kentucky, USA. KY Chapter of The Wildlife Society Annual Meeting (Poster). February 20-21. Lake Cumberland State Resort Park.
63. **Price, S.J.**<sup>§</sup>, Drayer, A.N., J.C. Guzy, and R. Caro. 2020. Created ephemeral wetlands as habitat for amphibian populations in western Kentucky, USA. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting (Poster). February 27- March 1. Camp McDowell, Nauvoo, AL.
62. Greene, K.M.<sup>§‡</sup>, **S.J. Price**, J. Van Cleve, and A.N. Drayer. 2020. Dispersal and genetic connectivity of amphibian populations in an altered landscape. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting (Poster). February 27- March 1. Camp McDowell, Nauvoo, AL
61. Ibach, A.J.<sup>§‡</sup> and **S.J. Price**. 2020. Modeling individual growth in two natricine snake species. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting (Poster). February 27- March 1. Camp McDowell, Nauvoo, AL
60. Tomke, S.A.<sup>§‡</sup>, S.J. Price and S. Carr. 2020. Hellbenders in Kentucky. Current Status and Research Efforts. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting (Poster). February 27- March 1. Camp McDowell, Nauvoo, AL
59. Lambert, M.<sup>§‡</sup>, **S.J. Price** and C. Barton 2019. Evaluation of artificial wetland effectiveness using amphibians as indicators of habitat quality on a reforested surface mine in the Monongahela National Forest, West Virginia. ESA/USSEE Joint Meeting (Poster), Aug 11-16, Louisville, Kentucky
58. White, D.<sup>§‡</sup>, W.R. Haag, **S.J. Price**, J. J. Culp and M. McGregor. 2019. Influence of *Corbicula fluminea* and water temperature on juvenile mussel growth in the wild. Freshwater Mussel Conservation Society Symposium (Talk). April 14-18. San Antonio, TX

57. Haag, W.R.<sup>§</sup>, **S.J. Price**, A. Darracq, J.J. Culp, and M.M. McGregor. 2019. Biomarker responses of juvenile freshwater mussels to starvation and exposure to ambient stream conditions. Freshwater Mussel Conservation Society Symposium (Talk). April 14-18. San Antonio, TX
56. Ibach, A.<sup>§ ‡</sup>, and **S.J. Price**. 2019. Growth Rates of two natricine snake species: differences between sexes, age classes and sites. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting (Poster), Feb 14-17, Black Mountain, North Carolina
55. **Price, S.J.**<sup>§</sup>, McKenzie, J.M.<sup>‡</sup>, G.M. Connette, S.J. Bonner and J.M. Lorch. 2019. Effects of snake fungal disease on short-term survival, behavior, and movement in free ranging snakes. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting (Talk), Feb 14-17, Black Mountain, North Carolina
54. Drayer, A. N.<sup>§</sup>, J. C. Guzy, and **S. J. Price**. 2019. Distribution, occupancy and abundance of *Ambystoma barbouri* in central Kentucky streams. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting (Talk), Feb 14-17, Black Mountain, North Carolina
53. Davis, A. G.<sup>§</sup>, W. Leuenberger, A. N. Drayer, and **S. J. Price**. 2019. Ecology of *Siren intermedia* in western Kentucky: Preliminary results using a spatial capture-recapture approach. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting (Talk), Feb 14-17, Black Mountain, North Carolina
52. Haag, W.R.<sup>§</sup>, J.J. Culp, M. McGregor, **S.J. Price** and L. Sneed<sup>‡</sup>. 2018. Factors related to growth inhibition in juvenile mussels exposed to ambient stream conditions. Freshwater Mussel Conservation Society Symposium (Talk), March 13-15, LaCrosse WI
51. **Price, S.J.**<sup>§</sup>, S.J. Bonner, J.M. Hutton<sup>‡</sup>, A.N. Drayer, B.L. Muncy<sup>‡</sup>, S.B. Freytag<sup>‡</sup> and C.D. Barton. 2018. Mountaintop mining and stream salamanders: searching for mechanisms responsible for population declines. The Wildlife Society Annual Meeting (Talk) Oct 8-11, Cleveland, OH.
50. Hutton, J.M.<sup>‡ §</sup> **S.J. Price**, S.J. Bonner, S.C. Richter and C.D. Barton. 2018. Plethodontid stream salamander occupancy, abundance and diet along a conductivity gradient. Society of Freshwater Science Annual Meeting (Talk). May 20-24, Detroit MI
49. Hutton, J.M.<sup>‡ §</sup>, **S.J. Price**, S.J. Bonner, S.C. Richter and C.D. Barton. 2018. Population and allochthony threshold responses of Plethodontid stream salamanders to conductivity. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting (Talk). Feb 22-25, Helen, GA.
48. Lambert, M.<sup>‡ §</sup> and **S.J. Price**. 2018. Improving detection of a threatened anuran species, *Lithobates areolatus*, in western Kentucky. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting (Poster). Feb 22-25, Helen, GA.



47. Hutton, J.M.<sup>‡§</sup>, **S.J. Price** and S.C. Richter. 2018. Diet of the Black Mountain Salamander (*Desmognathus walteri*) in Southeastern Kentucky. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting (Poster). Feb 22-25, Helen, GA.
46. Lambert, M.<sup>‡§</sup> and **S.J. Price**. 2017. Improving detection and of a threatened anuran species (*Lithobates areolatus*) in Western Kentucky. Kentucky Academy of Science 103<sup>rd</sup> Annual Meeting (Poster). November 3. Murray State University, Murray KY.
45. Hutton, J.M.<sup>‡§</sup>, **S.J. Price**, S.J. Bonner and C.D. Barton. 2017. Occupancy and Allochthony Threshold Responses of Plethodontid Stream Salamanders to Stream Conductivity. Kentucky Academy of Science 103<sup>rd</sup> Annual Meeting (Poster). November 3. Murray State University, Murray KY.
44. P.M. Hime<sup>§‡</sup>, S. Unger, **S.J. Price**, L. Williams, J. Briggler, A. McMillan, M. Freake, A. Drayer, M. Foley, E. Lemmon and D.W. Weisrock. 2017. SNP-based species delimitation in North America's largest salamander. Hellbender Symposium. June 19-22. Mississippi Museum of Natural Science, Jackson, MS.
43. McKenzie, J.<sup>‡§</sup>, **S. J. Price**, G.M. Connette, L. J. Fleckenstein\*, A.N. Drayer and J.M. Lorch. 2017. Snake Fungal Disease in Kentucky. Kentucky Chapter of The Wildlife Society. February 16-17. Barren River State Resort Park, KY.
42. McKenzie, J.<sup>‡§</sup>, **S. J. Price**, G.M. Connette, L. J. Fleckenstein\*, A.N. Drayer and J.M. Lorch. 2017. Field diagnostics and seasonality of *Ophidiomyces ophidiicola* in wild snake populations. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting (Poster). February 16-19. Little Rock, AR.
41. Hutton, J.M.<sup>‡§</sup>, **S.J. Price** and S. C. Richter. 2017. The diet of the Cumberland Plateau Salamander (*Plethodon kentucki*) in an old growth forest of southeastern Kentucky. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting (Poster). February 16-19. Little Rock, AR.
40. Weisrock, D.W.<sup>§</sup>, P.M. Hime<sup>‡</sup>, **S.J. Price**, S. Unger, J. Briggler, A. McMillan, M. Freake, A. Drayer, M. Foley, and E. Lemmon. 2016. What the hellbender? SNP-based species delimitation in North America's largest salamander. Evolution. June 17-21, 2016. Austin, TX.
39. Freytag, S.B.<sup>§</sup>, **S.J. Price**, S.J. Bonner, B. L. Muncy<sup>‡</sup>, A. N. Drayer and C.D. Barton. 2016. Occupancy dynamics of stream salamanders in degraded and reference headwater streams. Association of Southeastern Biologists Annual Meeting 30 March-2 April, Concord, NC.
38. **Price, S.J.**<sup>§</sup>, B.L. Muncy<sup>‡</sup>, S.J. Bonner, A. Drayer and C.D. Barton. 2016. Effects of mountaintop removal mining and valley fills on occupancy and abundance of stream salamanders. Association of Southeastern Biologists Annual Meeting 30 March-2 April, Concord, NC.

37. McKenzie, J.M. <sup>§‡</sup> **S.J. Price**, L.J. Fleckenstein\*, A.N. Drayer and J.M. Lorch. 2016. Assessment of snake fungal disease in Kentucky. Association of Southeastern Biologists Annual Meeting 30 March-2 April, Concord, NC.
36. Freytag, S.B. <sup>§‡</sup>, **S.J. Price**, S.J. Bonner, B. L. Muncy<sup>‡</sup>, A. N. Drayer and C.D. Barton. 2016. Occupancy dynamics of stream salamanders in degraded and reference headwater streams. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting (Poster). February 19-21. Camp McDowell, Nauvoo, AL.
35. Hime P.M. <sup>§‡</sup>, S.D. Unger, A.M. McMillan, M. Freake, S.O. Nunziata<sup>‡</sup>, A.R. Lemmon, E.M. Lemmon, **S.J. Price**, R.N. Williams and D.W. Weisrock. 2015. Genome-scale resolution of species boundaries and demography in *Cryptobranchus*. Seventh Hellbender Symposium, 14-17 June, Saint Louis, MO.
34. **Price, S.J.** <sup>§</sup>, B. Muncy<sup>‡</sup>, S. Bonner, C. Barton, and A. Drayer. 2015. Impacts of mountaintop removal mining and valley fills on stream salamander occupancy, abundance and species richness. Society for Freshwater Science annual meeting, 17-21 May, Milwaukee WI.
33. Murphy, M.O. <sup>‡§</sup>, **S.J. Price**, W. Haag, and D. Weisrock. 2015. Assessing congruency of population structure and gene flow between freshwater mussels and their hosts: a genomic approach. Society for Freshwater Science annual meeting, 17-21 May, Milwaukee WI.
32. Yates, W.T.\* <sup>§</sup>, M. Agha<sup>‡</sup>, J.R. Ennen, J.E. Lovich, C.H. Ernst, E.M. Ernst, and **S.J. Price**. 2015. Delayed emergence dynamics in Emydid neonate turtles of North America. Association of Southeastern Biologists Annual Meeting 1-5 April, Chattanooga, TN.
31. Agha, M. <sup>‡§</sup>, B. Augustine, J.E. Lovich, D. Delaney, B. Sinervo, M.O. Murphy, J.R. Ennen, J.R. Briggs, and **S.J. Price**. 2015. Using motion-sensor camera technology to infer seasonal activity and thermal niche of the desert tortoise (*Gopherus agassizii*). Association of Southeastern Biologists Annual Meeting 1-5 April, Chattanooga, TN.
30. Agha, M. <sup>‡§</sup>, J.E. Lovich, J.R. Ennen, B. Augustine, T.R. Arundel, and **S.J. Price**. 2015. Exploring the spatial dynamics of tortoise burrow placement in an industrial landscape. Association of Southeastern Biologists Annual Meeting 1-5 April, Chattanooga, TN.
29. Murphy, M.O.<sup>‡§</sup>, M. Agha<sup>‡</sup>, T.A. Mairret<sup>‡</sup>, M.E. Dorcas and **S.J. Price**. 2015. The effects of urbanization on body size of larval stream salamanders. Association of Southeastern Biologists Annual Meeting 1-5 April, Chattanooga, TN.
28. Hime, P.M. <sup>‡§</sup>, **S.J. Price**, and D.W. Weisrock. 2014. Genomic insights into amphibian evolution and conservation. SUNY Buffalo Biology Department Seminar Series (Invited Oral Presentation). November 1, 2014. Buffalo, NY.

27. Hime P.M.<sup>‡§</sup>, S.O. Nunziata<sup>‡</sup>, J.T. Briggler, J.S. Reece, **S.J. Price**, and D.W. Weisrock. 2014. Genomic approaches to *Cryptobranchus* conservation. AZA Amphibian Taxon Advisory Group Advanced Amphibian Course in Hellbender Management and Conservation (Invited Oral Presentation). November 9-12, 2014. St. Louis, MO
26. Lewis, M.A.<sup>\*§</sup>, M. Agha<sup>‡</sup>, and **S.J. Price**. 2014. Preliminary analysis of the use of open canopy gaps by the eastern box turtle (*Terrapene.c.carolina*). Natural Resource and Environmental Science Internship/Research Forum. October 9, 2014. Lexington, KY.
25. Agha, M.<sup>‡§</sup>, B. Augustine<sup>‡</sup>, M. O. Murphy<sup>‡</sup>, J. E. Lovich, D. Delaney, J. R. Ennen, B. Sinervo, R. Cooper and **S.J. Price**. 2014. Inferring seasonal activity and thermal niche of Agassiz's desert tortoises (*Gopherus agassizii*) through the application of motion sensor camera technology. Symposium for the Conservation and Biology of Tortoises and Freshwater Turtles, co-hosted by TSA and IUCN. August, 2014. Orlando, FL.
24. Lewis, M.A.<sup>\*§</sup>, M. Agha<sup>‡</sup>, and **S.J. Price**. 2014. Preliminary analysis of the use of open canopy gaps by the eastern box turtle (*Terrapene. c. carolina*). Symposium for the Conservation and Biology of Tortoises and Freshwater Turtles, co-hosted by TSA and IUCN. August, 2014. Orlando, FL.
23. Agha, M.<sup>‡§</sup>, M. O. Murphy<sup>‡</sup>, J. E. Lovich, J. R. Ennen, C. R. Oldham<sup>‡</sup>, K. Meyer, C. Bjurlin, M. Austin, S. Madrak, C. Loughran, L. Tennant, and **S.J. Price**. 2014. Research activities and winter precipitation influence voiding behavior in Agassiz's desert tortoise (*G. agassizii*). 57<sup>th</sup> Annual Meeting of the Society for the Study of Amphibians and Reptiles hosted by Society of Ichthyologists and Herpetologists. July 30-August 3, 2014. Chattanooga, TN.
22. Murphy, M.O.<sup>‡§</sup>, **S.J. Price**, and M.E. Dorcas. 2014. The effects of urbanization on salamander body size using a before-after control-impact design. 57<sup>th</sup> Annual Meeting of the Society for the Study of Amphibians and Reptiles hosted by Society of Ichthyologists and Herpetologists. July 30-August 3, 2014. Chattanooga, TN.
21. Agha, M.<sup>‡§</sup>, J. E. Lovich, J. R. Ennen, B. Augustine<sup>‡</sup>, T. R. Arundel, M. O. Murphy<sup>‡</sup>, D. Delaney, J. Briggs, K. Meyer, C. Bjurlin, M. Austin, S. Madrak, L. Tennant, and **S. J. Price**. 2014. Turbines and terrestrial vertebrates: Variation in tortoise survivorship between a wilderness and wind energy facility in the desert southwest, USA. 57<sup>th</sup> Annual Meeting of the Society for the Study of Amphibians and Reptiles hosted by Society of Ichthyologists and Herpetologists. July 30-August 3, 2014. Chattanooga, TN.
20. Hime P.M.<sup>‡§</sup>, S.O. Nunziata<sup>‡</sup>, J.T. Briggler, J.S. Reece, **S.J. Price**, and D.W. Weisrock. 2014. Genomic approaches to *Cryptobranchus* conservation. 57<sup>th</sup> Annual Meeting of the Society for the Study of Amphibians and Reptiles hosted by Society of Ichthyologists and Herpetologists. July 30-August 3, 2014. Chattanooga, TN.

19. Oldham, C.R.<sup>‡§</sup>, L.J. Fleckenstein III<sup>\*</sup> and **S.J. Price**. 2014. Novel application of passive integrated transponder (PIT) telemetry in natricine snakes. 57<sup>th</sup> Annual Meeting of the Society for the Study of Amphibians and Reptiles hosted by Society of Ichthyologists and Herpetologists. July 30-August 3, 2014. Chattanooga, TN.
18. Murphy, M.O.<sup>‡§</sup>, **S.J. Price**, and D.W. Weisrock. 2014. Host before Habitat? Assessing congruency in patterns of gene flow in an imperiled freshwater mussel and its vertebrate host. Evolution. June 21-25, 2014. Raleigh, NC.
17. Muncy, B.L.<sup>‡§</sup>, C.D. Barton, and **S.J. Price**. 2014. Effects of mountaintop removal and valley fill on stream salamander communities. Association of Southeastern Biologists Annual Meeting 2-5 April, Spartanburg, SC.
16. Oldham, C.R.<sup>‡§</sup>, L.J. Fleckenstein III<sup>\*</sup> and **S.J. Price**. 2014. Novel application of passive integrated transponder (PIT) telemetry in natricine snakes. Association of Southeastern Biologists Annual Meeting 2-5 April, Spartanburg, SC.
15. Maigret, T.A.<sup>‡§</sup>, J.J. Cox, D.R. Schneider, C.D. Barton, **S.J. Price** and J.L. Larkin. 2014. Effects of timber harvest within streamside management zones on salamander populations in ephemeral streams of southeastern Kentucky. Association of Southeastern Biologists Annual Meeting 2-5 April, Spartanburg, SC.
14. Agha, M.<sup>‡</sup>, M.O. Murphy<sup>‡§</sup>, J.E. Lovich, J.R. Ennen, C.R. Oldham<sup>‡</sup> and **S.J. Price**. 2014. Research activities influence voiding behavior in desert tortoises (*Gopherus agassizii*). Midwest Ecology and Evolution Conference, 1-2 March, Dayton, OH.
13. Hime, P.M.<sup>‡§</sup>, **S.J. Price**, and D.W. Weisrock. 2014. Leveraging genomics to understand and conserve an imperiled North American giant salamander. University of Kentucky EcoLunch Seminar Series (Oral Presentation). February 28, 2014. Lexington, KY.
12. Hime, P.M.<sup>‡§</sup>, **S.J. Price**, and D.W. Weisrock. 2014. Leveraging genomics to inform *Cryptobranchus* conservation: Sex-linked genes, range-wide phylogenetics and species delimitation, and field surveys across Kentucky. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting (Poster). February 13-16, 2014. Lake Cumberland, KY.
11. Maigret, T.A.<sup>‡§</sup>, J.J. Cox, D.R. Schneider, C.D. Barton, **S.J. Price** and J.L. Larkin. 2014. Effects of timber harvest within streamside management zones on salamander populations in ephemeral streams of southeastern Kentucky. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting, 13-15 February, Lake Cumberland, KY.
10. Agha, M.<sup>‡§</sup>, M. O. Murphy<sup>‡</sup>, J. E. Lovich, J. R. Ennen, C. R. Oldham, K. Meyer, C. Bjurlin, M. Austin, S. Madrak, C. Loughran, L. Tennant, **S.J. Price**. 2014. Research activities and winter precipitation influence voiding behavior in Agassiz's desert tortoise (*G. agassizii*). Southeast Partners in Amphibian and Reptile Conservation Annual Meeting, 13-15 February, Lake Cumberland, KY.

9. Muncy, B.L.<sup>‡§</sup>, C.D. Barton, and **S.J. Price**. 2014. Effects of mountaintop removal and valley fill on stream salamander communities. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting, 13-15 February, Lake Cumberland, KY.
8. Agha, M.<sup>‡§</sup>, M.O. Murphy<sup>‡</sup>, J.E. Lovich, J.R. Ennen, C.R. Oldham<sup>‡</sup> and **S.J. Price**. 2014. Research activities influence voiding behavior in desert tortoises (*Gopherus agassizii*). Southeast Partners in Amphibian and Reptile Conservation Annual Meeting, 13-15 February, Lake Cumberland, KY.
7. Oldham, C.R.<sup>‡§</sup>, L.J. Fleckenstein III<sup>\*§</sup> and **S.J. Price**. 2014. Novel application of passive integrated transponder (PIT) telemetry in natricine snakes. Southeast Partners in Amphibian and Reptile Conservation Annual Meeting, 13-15 February, Lake Cumberland, KY.
6. Maignet, T.A.<sup>‡§</sup>, J.J. Cox, D.R. Schneider, C.D. Barton, **S.J. Price** and J.L. Larkin. 2014. Effects of timber harvest within streamside management zones on salamander populations in ephemeral streams of southeastern Kentucky. The Kentucky Chapter of the Wildlife Society Annual Meeting. 20-21 February, Barren River Lake State Park, KY
5. Muncy, B.L.<sup>‡§</sup>, C.D. Barton, and **S.J. Price**. 2014. Effects of mountaintop removal and valley fill on stream salamander communities. The Kentucky Chapter of the Wildlife Society Annual Meeting. 20-21 February, Barren River Lake State Park, KY.
4. Ruder, C.D.<sup>\*§</sup>, C. Akins, **S.J. Price**, L.A. Harden, J.W. Gibbons, and M.E. Dorcas. 2013. Effects of environmental temperature variation on body temperatures and habitat use in free-ranging diamondback terrapins (*Malaclemys terrapin*). 6<sup>th</sup> Symposium on the Ecology, Status and Conservation of Diamondback Terrapins. September 13-15, 2013. Seabrook Island, SC.
3. Witzcak, L.R.<sup>\*§</sup>, J.C. Guzy, **S.J. Price**, J. W. Gibbons, and M.E. Dorcas. 2013. Creek-specific variation in survivorship and recruitment of *Malaclemys terrapin* over three decades. 6<sup>th</sup> Symposium on the Ecology, Status and Conservation of Diamondback Terrapins. September 13-15, 2013. Seabrook Island, SC.
2. **Price, S.J.**<sup>§</sup>, J.C. Guzy and M.E. Dorcas. 2013. Detection and occupancy estimates of anuran amphibians: the manual calling survey and beyond. Symposia on detectability and studying rare species. Joint Meeting of Ichthyologists and Herpetologists. July 10-15, 2013. Albuquerque, NM.
1. Guzy, J.C.<sup>§</sup>, **S.J. Price** and M.E. Dorcas. 2013. Effects of damming on riparian zone reptiles and amphibians. Symposia on impact of energy development on amphibians and reptiles in North America. Joint Meeting of Ichthyologists and Herpetologists. July 10-15, 2013. Albuquerque, NM.

## TEACHING AND ADVISING

### Courses Taught

#### 1. *NRE 320. Natural Resources and Environmental Analysis: Costa Rica (3 credits)*

Summer 2019, Enrollment: 10  
 Overall Value of the Course: Threshold not met  
 Quality of Teaching: Threshold not met

Summer 2018, Enrollment: 12  
 Overall Value of the Course: Threshold not met  
 Quality of Teaching: Threshold not met

Summer 2017, Enrollment: 19  
 Overall Value of the Course: Threshold not met  
 Quality of Teaching: Threshold not met

Summer 2016, Enrollment: 13  
 Overall Value of the Course: Threshold not met  
 Quality of Teaching: Threshold not met

Summer 2014, Enrollment: 12  
 Overall Value of the Course 4.0/4.0 (College Mean =3.31)  
 Quality of Teaching: 4.0/4.0 (College Mean = 3.39)

Summer 2013, Enrollment: 19  
 Overall Value of the Course: 4.0/4.0 (College Mean =3.5)  
 Quality of Teaching: 4.0/4.0 (College Mean = 3.5)

#### 2. *FOR 530. Freshwater Ecology (3 credits)*

Fall 2017, Enrollment: 12  
 Overall Value of the Course (4.6/5.0) (College Mean = 4.3)  
 Quality of Teaching: 4.6/5.0 (College Mean = 4.2)

#### 3. *FOR 540. Urban Ecology (3 credits)*

Fall 2014, Enrollment: 5  
 Overall Value of the Course (4.0/4.0) (College Mean = 3.37)  
 Quality of Teaching: 4.0/4.0 (College Mean = 3.42)

Fall 2013, Enrollment: 4  
 Overall Value of the Course (3.9/4.0) (College Mean = 3.5)  
 Quality of Teaching: 3.9/4.0 (College Mean = 3.5)

#### 4. *FOR 510. Herpetology (4 credits)*

Spring 2023, Enrollment: 31  
 Overall Value of the Course: 4.52/5.0 (College Mean = 4.4)

Quality of Teaching: 4.65/5.0 (College Mean = 4.5)

Spring 2022, Enrollment: 28

Overall Value of the Course: 4.78/5.0 (College Mean = 4.5)

Quality of Teaching: 4.87/5.0 (College Mean = 4.5)

Spring 2021, Enrollment: 21

Overall Value of the Course: 4.8/5.0 (College Mean = 4.2)

Quality of Teaching: 5/5.0 (College Mean = 4.4)

Spring 2020, Enrollment: 24

Overall Value of the Course: 4.8/5.0 (College Mean = 4.4)

Quality of Teaching: 4.8/5.0 (College Mean = 4.5)

Spring 2019, Enrollment: 21

Overall Value of the Course 4.9/5.0 (College Mean = 4.2)

Quality of Teaching: 4.9/5.0 (College Mean = 4.4)

Spring 2018, Enrollment: 19

Overall Value of the Course 4.9/5.0 (College Mean = 4.2)

Quality of Teaching: 4.9/5.0 (College Mean = 4.4)

Spring 2017, Enrollment: 12

Overall Value of the Course 4.89/5.0 (College Mean = 4.41)

Quality of Teaching: 4.89/5.0 (College Mean = 4.27)

Spring 2016, Enrollment: 14

Overall Value of the Course 3.5/4.0 (College Mean = 3.35)

Quality of Teaching: 3.67/4.0 (College Mean = 3.48)

Spring 2015, Enrollment: 14

Overall Value of the Course 3.75/4.0 (College Mean = 3.35)

Quality of Teaching: 3.75/4.0 (College Mean = 3.39)

Spring 2014, Enrollment: 10

Overall Value of the Course 4.0/4.0 (College Mean = 3.31)

Quality of Teaching: 4.0/4.0 (College Mean = 3.39)

Spring 2013, Enrollment: 15

Overall Value of the Course 3.5/4.0 (College Mean = 3.5)

Quality of Teaching: 3.7/4.0 (College Mean = 3.5)

##### **5. FOR 601 – Research Methods in Forestry (3 credits)**

Fall 2023, Enrollment: 5

Overall Value of the Course: pending  
Quality of Teaching: pending

Fall 2022, Enrollment: 4  
Overall Value of the Course: Threshold not met  
Quality of Teaching: Threshold not met

Fall 2020, Enrollment: 7  
Overall Value of the Course: Threshold not met  
Quality of Teaching: Threshold not met

Fall 2019, Enrollment: 3  
Overall Value of the Course: Threshold not met  
Quality of Teaching: Threshold not met

Fall 2018, Enrollment: 9  
Overall Value of the Course 5.0/5.0 (College Mean = 4.3)  
Quality of Teaching: 5.0/5.0 (College Mean = 4.2)

Fall 2017, Enrollment: 5  
Overall Value of the Course 5.0/5.0 (College Mean = 4.3)  
Quality of Teaching: 5.0/5.0 (College Mean = 4.2)

**6. FOR 603 – Foundations in Forestry, Wildlife and Natural Resources**

Fall 2022, Enrollment: 9  
Overall Value of the Course: 5.0/5.0 (College Mean = 4.5)  
Quality of Teaching: 5.0/5.0 (College Mean = 4.5)

Fall 2020, Enrollment: 8  
Overall Value of the Course: Threshold not met  
Quality of Teaching: Threshold not met

**7. FOR 770 – University Forestry Teaching (1 credit)**

Spring 2021, Enrollment: 3  
Overall Value of the Course: pending  
Quality of Teaching: pending

Fall 2020, Enrollment: 1  
Overall Value of the Course: Threshold not met  
Quality of Teaching: Threshold not met

Spring 2020, Enrollment: 2  
Overall Value of the Course: Threshold not met  
Quality of Teaching: Threshold not met



Fall 2019, Enrollment: 4  
 Overall Value of the Course: Threshold not met  
 Quality of Teaching: Threshold not met

Spring 2019, Enrollment: 2  
 Overall Value of the Course: Threshold not met  
 Quality of Teaching: Threshold not met

Fall 2018, Enrollment: 4  
 Overall Value of the Course: Threshold not met  
 Quality of Teaching: Threshold not met

**8. FOR 770 – Reptile and Amphibian Conservation and Management (1 credit)**

Spring 2018, Enrollment: 6  
 Overall Value of the Course: Threshold not met  
 Quality of Teaching: Threshold not met

Spring 2016, Enrollment: 8  
 Overall Value of the Course 3.88/4.0 (College Mean = 3.35)  
 Quality of Teaching: 4.0/4.0 (College Mean = 3.48)

**9. BIO 199 – STEMcats Research (1 credit)**

Spring 2016, Topic: Herpetological Research, Enrollment: 1

**10. FOR 781/791 – Research in Forestry**

Spring 2021, Topic: Environmental DNA: Protocols and Assessment, Enrollment: 1 (3 credits)

Fall 2019, Topic: Capture-Mark-Recapture Analysis, Enrollment: 2 (2 credits)

Spring 2015, Topic: Population Analysis, Enrollment: 2 (2 credits)

Spring 2014, Topic: Estimating salamander occupancy and abundance, Enrollment: 1 (2 credits)

Spring 2013, Topic: Mark-recapture analyses, Enrollment: 1 (3 credits)

**11. FOR 602 – Renewable Natural Resources in a Global Perspective (3 credits)**

Fall 2019, Co-instructor responsible for 2 50-minute class sessions, Enrollment: 13

Fall 2017, Co-instructor responsible for three 50-minutes class sessions, Enrollment: 12

Fall 2015, Co-instructor responsible for three 50-minutes class sessions, Enrollment: 10

Fall 2013, Co-instructor responsible for three 50-minutes class sessions, Enrollment: 16

**12. NRE 320. Natural Resources and Environmental Analysis: Robinson Forest (3 credits)**

Spring 2020, Co-instructor responsible for a 6-hour class session; Enrollment: 4

Spring 2019, Co-instructor responsible for a 6-hour class session; Enrollment: 13

Spring 2018, Co-instructor responsible for a 6-hour class session; Enrollment: 15

Spring 2017, Co-instructor responsible for a 6-hour class session; Enrollment: 22

Spring 2016, Co-instructor responsible for a 6-hour class session; Enrollment: 17

Spring 2015, Co-instructor responsible for a 6-hour class session; Enrollment: 7  
 Spring 2014, Co-instructor responsible for a 6-hour class session; Enrollment: 22  
 Spring 2013, Co-instructor responsible for a 6-hour class session; Enrollment: 14

### **Student Advising and Committee Service**

#### ***Advised or Co-advised Graduate Students (14)***

Brenee' Muncy, M.S. Forestry, completed degree in 2014, co-major advisor with C.D. Barton  
*Thesis:* Effects of mountaintop removal mining and valley fills on stream salamander communities.

Mickey Agha, M.S. Forestry, completed degree in 2015  
*Thesis:* A long-term investigation of the federally threatened desert tortoise (*Gopherus agassizii*) at a winder energy facility in Southern California.

Mason Murphy, M.S. Biology, completed degree in 2016, co-major advisor with D.W. Weisrock  
*Thesis:* Capture and population structure of *Necturus maculosus* in central and eastern Kentucky.

Sara Beth Freytag, M.S. Forest and Natural Resource Sciences, completed degree in 2016  
*Thesis:* Effects of mountaintop removal mining on population dynamics of stream salamanders.

Christian Oldham, M.S. Forest and Natural Resource Sciences, completed degree in 2016  
*Thesis:* Investigations in cryptic species: considerations and applications for estimating detection, occupancy, and abundance of semi-aquatic snakes.

Jennifer McKenzie, M.S. Forest and Natural Resource Sciences, completed degree August 2018  
*Thesis:* Effects of snake fungal disease on behavior and survival in wild snake populations.

Jacob Hutton, M.S. Forest and Natural Resource Sciences, completed degree August 2018  
*Thesis:* Effects of stream pollution on consumption of terrestrial prey subsidies by salamanders.

Michaela Lambert, M.S. Forest and Natural Resource Sciences, completed degree May 2020  
*Thesis:* Pond-breeding amphibian use of restored wetlands on a surface mine.

Drew White, M.S. Forest and Natural Resource Sciences, completed degree May 2020  
*Thesis:* Food abundance modulates juvenile freshwater mussel (Unionidae) growth responses to the Asian Clam (*Corbicula fluminea*).

Andrew Ibach, M.S. Forest and Natural Resource Sciences, expected degree August 2021  
*Thesis:* Growth of two Natricine snake species: effects of site, sex and disease

Rebecca Davenport, M.S. Forest and Natural Resource Sciences, completed degree May 2023  
*Thesis:* Effects of forest reclamation and landscape features on avian occupancy, species richness and abundance in Appalachia

Lauren Sherman, M.S. Forest and Natural Resource Sciences, completed degree May 2023  
*Thesis:* Pond-breeding amphibian responses to wetland creation and reforestation on a legacy surface mine in the Monongahela National Forest.

Kathryn Greene, Ph.D. Biology, expected degree May 2024  
*Dissertation:* Dispersal and gene flow across heterogeneous landscapes

Sarah Tomke, Ph.D. Forest and Natural Resource Sciences, expected May 2024  
*Dissertation:* Hellbenders in Kentucky: Monitoring and recruitment

#### ***Graduate Student Committee (15)***

Ten M.S. students, University of Kentucky, Department of Forestry and Natural Resources  
 One M.S. student, Eastern Kentucky University, Department of Biology  
 Three Ph.D. students, University of Kentucky, Department of Biology  
 One Ph.D. student, University of Louisville, Department of Biology

#### ***Undergraduate Students Advised (14)***

Fourteen undergraduate students, University of Kentucky, Natural Resources and Environmental Science Students

#### ***Independent Research Undergraduate Students (15)***

Thirteen students, University of Kentucky, Natural Resources and Environmental Science (11), Animal Sciences (2)  
 One student, Northern Ohio University, sponsored through NSF REU to University of Kentucky, Department of Biology.

#### ***Student Awards***

##### Rebecca Davenport

- Kentucky Chapter of Wildlife Society (\$300)
- American Ornithological Society Student Research Award (\$2500)
- Wilson Ornithological Society Student Research Award (\$3000)
- Karri Casner Environmental Sciences Fellowship from the Tracy Farmer Institute for Sustainability and the Environment (\$4773)

##### Kathryn Greene

- Kentucky Society of Natural History (\$1000)
- National Science Foundation Graduate Research Fellowship Program Recipient (\$34,000/yr for 3 years)
- Eller Billings Summer Research Mini-Grant, UK Appalachian Center (\$500)

- University of Kentucky Biology Department Summer Research Award 2018-2019 (\$4,333)
- Gertrude Flora Ribble Research Fellowship (\$2000)

Sarah Tomke

- Graduate School Congress Research Award (\$500)
- Red Barrington Scholarship Award (\$2000)

Drew White

- Forestry Graduate Student Research Conference Travel Grant (\$1200)
- Forestry Graduate Student Research Conference Travel Grant (\$792)

Andrew Ibach

- Forestry Graduate Student Research Conference Travel Grant (\$364)

Brenee' Muncy

- Forestry Graduate Student Award for Excellence in Research, Academic Performance, and Service, awarded by the University of Kentucky, Department of Forestry
- Forestry Graduate Student Research Conference Travel Grant (\$612)
- Natural History/Biodiversity Grant, Kentucky Society of Natural History (\$500)
- Southeast Partners in Amphibian and Reptile Conservation Travel Award (\$50)

Christian Oldham

- Forestry Graduate Student Award for Excellence in Research, Academic Performance, and Service, awarded by the University of Kentucky, Department of Forestry
- Forestry Graduate Student Research Conference Travel Grant (\$755)

Mickey Agha

- National Science Foundation, Graduate Research Fellowship Program Honorable Mention
- Forestry Graduate Student Research Conference Travel Grant (\$367)
- Desert Legacy Fund, California Desert Research Program and Community Foundation (\$3200)

Mason Murphy

- Kentucky Academy of Science, Marcia Athey Grant (\$933)
- Society for Freshwater Science, Graduate Student Conservation Research Award (\$1000)
- Southeast Partners in Amphibian and Reptile Conservation Travel Award (\$50)
- Forestry Graduate Student Research Conference Travel Grant (\$180)
- Kentucky Society for Natural History (\$500)

Sara Beth Freytag

- Kentucky Society for Natural History (\$500)
- Eller Billings Summer Research Mini-Grant, UK Appalachian Center (\$500)

- Karri Casner Environmental Sciences Fellowship from the Tracy Farmer Institute for Sustainability and the Environment (\$1500)
- Kentucky Academy of Science, Marcia Athey Grant (\$1000)
- UK Forestry Department Travel Award (joint with J. McKenzie) (\$790.58)

#### Jennifer McKenzie

- American Society of Ichthyologists and Herpetologists, Gaige Award (\$800)
- Herpetologists' League, E.E. Cummings Grant – Honorable mention
- Eller Billings Summer Research, UK Appalachian Center (\$915)
- Chicago Herpetological Society (\$1000)
- Kentucky Wildlife Society (\$250)
- Kentucky Academy of Sciences, Marcia Athey Grant (\$1070.27)
- Association of Southeastern Biologist Graduate Student Travel Award (\$290)
- UK Forestry Department Travel Award (joint with S. Freytag) (\$790.58)

#### Jake Hutton

- Society for the Study of Amphibians and Reptiles Roger Conant Grants in Herpetology Program, Conservation of Amphibians and Reptiles (\$500)
- Eller Billings Summer Research, UK Appalachian Center (\$1000)
- Karri Casner Environmental Sciences Fellowship from the Tracy Farmer Institute for Sustainability and the Environment (\$1500)
- The ECU Division of Natural Areas' Grant-in-Aid of Student Research Program (\$192)
- Kentucky Academy of Science Marcia Athey Grant (\$1140)
- Society for Freshwater Science, Graduate Student Conservation Research Award (\$1000)
- Southeast PARC travel award (\$250)
- UK Forestry Department Travel Award (joint with M. Lambert) (\$433.90)
- UK Forestry Department Travel Award (joint with J. McKenzie, T. Maignet) (\$1384.80)

#### Michaela Lambert

- ESA Poster Award
- Southeast PARC travel award (\$250)
- UK Forestry Department Travel Award (joint with J. Hutton) (\$433.90)
- 2016 - University of Kentucky Undergraduate Research award (\$2000)
- Selected to participate in NSF REU at Savannah River Ecology Lab

#### Mariah Lewis (undergraduate student)

- 2014 - University of Kentucky Undergraduate Research award (\$2000)

#### Jonathan Matthews (undergraduate student)

- 2016 - University of Kentucky Undergraduate Research award (\$2000)

### **EXTENSION AND OUTREACH ACTIVITIES (2013-present)**

**Select Educational Programs and Activities (by me, my students or staff); 42 events in total; approximately 3,600 individuals impacted**

Marshall County High School, West Kentucky Wildlife Management Area (April 2023)  
~90 students

Marshall County High School, West Kentucky Wildlife Management Area (October 2022) ~70 students

Marshall County High School, West Kentucky Wildlife Management Area (April 28, 29 2022) ~80 students

East Jessamine Middle School (November 2021) - ~300 6<sup>th</sup> grade students

Marshall County High School, West Kentucky Wildlife Management Area (April 1, 2020) - 32 students

KY State Fair - Ashely Osborne (4-H, August 21, 2019) and Carol Spence (College of Ag Communications, August 19, 2019) ~ 700 participants

Marshall County High School, West Kentucky Wildlife Management Area (May 13-15, 2019; September 9-11, 2019) - 100 students

UK Sustainability Fair at Greg Page (September 4, 2019) ~ 200 students

Science Fair for home-school group (January 7, 2019) ~75 students

Mason Co. elementary school with (Mason Co. extension- Macy Fawns; March 7, 2019 – K-5) ~ 200 students

UK Arboretum – Children’s Garden – (April 6, 2019) Spectacular Spring- 100 children and families

UK Arboretum – Arbor Day – (April 27, 2019) - 100 children and families

Yates Elementary Family Science Night (April 25, 2019) ~ 300 K-5<sup>th</sup> graders

UK Arboretum Children’s Garden - (July 13, 2019) – Sizzling Summer - 50 children

UK Arboretum Children’s Garden – (October 5, 2019) – Amazing Autumn - 50 children

KY State Fair - (August 22-23, 2018) Ashely Osborne (4-H) and Carol Spence (College of Ag Communications) ~ 600 general public

Mountain Ag Youth Day (September 18, 2018) - Robinson Forest (Laurie Taylor-Thomas- Extension) ~ 300 high school students

Marshall County High School, West Kentucky Wildlife Management Area (October 15-17, 2018, November 12-14, 2018) - Two day workshop with 50 students.

Floracliff Field Studies Workshop - Herpetology. September 16-17, 2017. - Two day workshop with 20 students. Co-taught with S. Richter (EKU), A. Drayer

Reptiles and Amphibians of Kentucky. Kentucky State Fair. August 2017. - 400 attendees

Reptiles and Amphibians in Kentucky's Forests. Kentucky Wood Expo. September 2017 - 200 attendees

Robinson Forest Field Day. June 7, 2017. - 150 attendees.

Reptiles and Amphibians. Robinson Center Mountain Ag Field Day. October 2016. - 200 people.

Reptiles and Amphibians of Kentucky. Kentucky State Fair. August 2016. - 400 attendees

Reptiles and Amphibians in Kentucky's Forests. Kentucky Wood Expo. September 2015. - 300 attendees, including approximately 70 middle school students.

Reptiles and Amphibians in Kentucky. Kentucky State Fair. August 2015. - 200 attendees

Reptiles and Amphibians in Kentucky. Floracliff and Maywoods Bioblitz event. Fayette and Garrard Counties, KY, June 2015. - 70 attendees.

## **SERVICE AND RECOGNITION**

### **Reviewer Service (Total since arrival at UK: 42)**

The American Midland Naturalist (1), Biology (1), Biological Conservation (4), Conservation Physiology (1), Copeia (2), Ecology (1), Forest Ecology and Management (1), Herpetologica (2), Herpetological Conservation and Biology (7), Herpetological Review (3), Hydrobiologia (1), Journal of Applied Ecology (1), Journal of Herpetology (3), Journal of North American Herpetology (1), Journal of Wildlife Management (2), Landscape and Urban Planning (2), Northeast Naturalist (2), The American Midland Naturalist (1), Wetlands (1), Wildlife Society Bulletin (2), Urban Ecosystems (2), University of West Virginia Press(1)

### **Current Professional Affiliations**

Association of Southeastern Biologists (2003-present), Partnership for Amphibian and Reptile Conservation (2002-present), Society for the Study of Amphibians and Reptiles (2002-present), Society for Freshwater Science (2015-present), The Wildlife Society – Kentucky Chapter (2014-present), The Wildlife Society (2018-present)

**Awards (Total to date: 3)**

2. Senior Research Award, Association of Southeastern Biologists (2016)
1. A Teacher Who Made a Difference Award, University of Kentucky (2014, 2015)

**University Committee Service**

Chair, Research Committee (UK, Forestry and Natural Resources) (2015-2017)  
Undergraduate Committee (UK, Forestry and Natural Resources) (2017-present)  
Outreach Committee (UK, Forestry and Natural Resources) (2012-present)  
Seminar Committee (UK, Forestry and Natural Resources) (2015-present)  
Graduate Committee (UK, Forestry and Natural Resources) (2013-2014, 2016-present)  
Natural Resources and Environment Science Steering Committee (2017-present)  
Ecological Research and Education Center (UK, Biology) Steering Committee (2018-present)