## JARRETT REED JOHNSON

Department of Biology, Western Kentucky University, Bowling Green, Kentucky 42101, USA

e-mail: jarrett.johnson@wku.edu

webpage: http://people.wku.edu/jarrett.johnson/

# BACKGROUND

#### EDUCATION

- Ph.D., 2005 Department of Biological Sciences, University of Missouri, Columbia, Missouri, USA.
- B.S., 1999 with Honors and Distinction, Department of Ecology, Ethology, and Evolution, University of Illinois, Champaign, Illinois, USA.

#### **PROFESSIONAL EXPERIENCE**

- Professor (2022 present) Department of Biology, Western Kentucky University, Bowling Green, Kentucky, USA
- Associate Professor (2016 2022) Department of Biology, Western Kentucky University, Bowling Green, Kentucky, USA
- Assistant Professor (2010 2016) Department of Biology, Western Kentucky University, Bowling Green, Kentucky, USA
- Postdoctoral Researcher (2006 2010) Center for Population Biology & Section of Evolution and Ecology, University of California, Davis, California, USA
- Graduate Research Fellow (1999 2005) Department of Biological Sciences, University of Missouri, Columbia, Missouri, USA
- Research Assistant (1997 1999) Illinois Natural History Survey & Department of Ecology, Ethology and Evolution, University of Illinois, Champaign, Illinois, USA

### SCHOLARLY ACTIVITIES

## **PUBLICATIONS** 1417 Total Citations; H index = 19

\*undergraduate student co-authors, †graduate student co-authors, ∫WKU student co-authors

In review:

Ficarra†§, G., K. Bilyk, M. C. do Amaral, and **J. R. Johnson**. The effect of freeze-thaw events on DNA integrity in the gray treefrog, *Hyla versicolor*. Comparative Biochemistry and Physiology Part A.

In print or in press:

(34) Earl, J. E., S. Blomquist, E. Harper, D. J. Hocking, M. Hunter, **J. R. Johnson**, M. S. Osbourn, D. Patrick, V. Popescu, T. A. G. Rittenhouse and B. B. Rothermel. 2022.

Amphibian Biomass Export from Geographically Isolated Wetlands: Temporal Variability, Species Composition, and Potential Implications for Terrestrial Ecosystems. Diversity 14: 163-180.

- (33) Metzger†§ M. L., S. A. Grubbs, and J. R. Johnson. 2022. An integrative phylogenetic analysis of eastern Nearctic Leuctra Stephens, 1836 (Plecoptera: Leuctridae), with an emphasis on the fauna of a southern Appalachian Highlands landscape. Canadian Entomologist 154.
- (32) Anderson, T. L., J. E. Earl, D. J. Hocking, M. S. Osbourn, T. A. G. Rittenhouse, and J. R. Johnson. 2021. Demographic effects of phenological variation in natural populations of two pond-breeding salamanders. Oecologia 196:1073–1083
- (31) Boyd<sup>†</sup>S, O. F., T. K. Philips, J. R. Johnson, J. J. Nixon<sup>†</sup>S. 2020. Geographically structured genetic diversity in the cave beetle *Darlingtonea kentuckensis* Valentine 1952 (Coleoptera, Carabidae, Trechina). Subterranean Biology 34: 1-23.
- (30) Anderson<sup>†</sup>§, K. and J. R. Johnson. 2018. The effects of substrate pH on growth and survival of recently metamorphosed Marbled Salamanders (*Ambystoma opacum*). Herpetological Conservation and Biology 13: 70-79.
- (29) Levis<sup>†</sup>§, N. A, M. Schooler<sup>\*</sup>§, J. R. Johnson, and M. L. Collyer. 2016. Non-adaptive phenotypic plasticity: the effects of terrestrial and aquatic herbicides on larval salamander morphology and swim speed. Biological Journal of the Linnaean Society 118: 569–581.
- (28) Drake, D. L., B. H. Ousterhout<sup>†</sup>, J. R. Johnson, T. L. Anderson<sup>†</sup>, W. E. Peterman<sup>†</sup>, C. D. Shulse<sup>†</sup>, D. J. Hocking, K. L. Lohraff<sup>†</sup>, E. H. Harper, T. A. G. Rittenhouse, B. B. Rothermel, L. S. Eggert, and R. D. Semlitsch. 2015. Pond-Breeding Amphibian Community Composition in Missouri. American Midland Naturalist 174: 180-187.
- (27) Levis<sup>†</sup>§, N. A. and J. R. Johnson. 2015. Level of UV-B radiation influences the effects of glyphosate-based herbicide on fitness of the spotted salamander (*Ambystoma maculatum*). Ecotoxicology 24: 1074-1086.
- (26) Fitzpatrick, B. M., M. E. Ryan, J. R. Johnson, J. Corush, and E. Carter<sup>†</sup>. 2015. Hybridization and the species problem in conservation. Current Zoology 61: 204– 214.
- (25) Wilcox, J. T., G. E. Padgett-Flohr, J. A. Alvarez, and J. R. Johnson. 2015. Possible influence of superinvasive alleles in larval California Tiger Salamanders (*Ambystoma californiense*). American Midland Naturalist 173:168-175.
- (24) Johnson, J. R., M. E. Ryan<sup>†</sup>, S. J. Micheletti<sup>\*</sup>, and H. B. Shaffer. 2013. Short pond hydroperiod decreases fitness of non-indigenous hybrid salamanders. Animal Conservation 16: 556–565.
- (23) Ryan<sup>†</sup>, M. E., J. R. Johnson, B. M. Fitzpatrick, L. J. Lowenstein, A. M. Picco<sup>†</sup>, and H. B. Shaffer. 2013. Agricultural landscapes in California favor introduced hybrid tiger salamanders. Conservation Biology 27: 95–102.
- (22) Johnson, J. R., R. C. Thomson<sup>†</sup>, S. J. Micheletti<sup>\*</sup>, and H. B. Shaffer. 2011. The origin of tiger salamander (*Ambystoma tigrinum*) populations in California, Oregon, and Nevada: introductions or relicts? Conservation Genetics 12:355-370.
- (21) Tonione<sup>†</sup>, M., **J. R. Johnson**, and E. J. Routman. 2011. Microsatellite analysis supports mitochondrial phylogeography of the hellbender (*Cryptobranchus alleganiensis*). Genetica 139: 209-219.
- (20) Wang<sup>+</sup>, I. J., J. R. Johnson, B. B. Johnson<sup>\*</sup>, and H. B. Shaffer. 2011. Effective population size is strongly correlated with pond size in the endangered California tiger salamander, *Ambystoma californiense*. Conservation Genetics 12:911-920.

- (19) Johnson, J. R., B. B. Johnson\*, and H. B. Shaffer. 2010. Genotype and temperature affect locomotor performance in a tiger salamander hybrid swarm. Functional Ecology. 24:1073-1080.
- (18) Johnson, J. R., B. M. Fitzpatrick, and H. B. Shaffer. 2010. Admixture dynamics of tiger salamanders: Fitness of early-generation hybrids and the retention of lowfitness genotypes in contemporary populations. BMC Evolutionary Biology 10:147.
- (17) Fitzpatrick, B. M., J. R. Johnson, D. K. Kump, J. J. Smith<sup>+</sup>, S. R. Voss, and H. B. Shaffer. 2010. Rapid spread of invasive genes into a threatened native species. Proceedings of the National Academy of Sciences 107:3606-3610.
- (16) Thomson<sup>+</sup>, R. C., I. J. Wang<sup>+</sup>, and J. R. Johnson. 2010. Invited Review: Genomeenabled molecular marker development for ecology, evolution, and conservation. Molecular Ecology 19:2184–2195.
- (15) Johnson, J. R., K. M. Faries\*, J. J. Rabenold\*, J. Briggler, J. Koppelman, and L. S. Eggert. 2009. Polymorphic microsatellite loci for studies of the hellbender (*Cryptobranchus alleganiensis bishopi*). Conservation Genetics 10:1795–1797.
- (14) Fitzpatrick, B. M., J. R. Johnson, D. K. Kump, H. B. Shaffer, J. J. Smith<sup>+</sup>, and S. R. Voss. 2009. Rapid fixation of non-native alleles revealed by genome-wide SNP analysis of hybrid tiger salamanders. BMC Evolutionary Biology 9:176.
- (13) Ryan<sup>+</sup>, M. E., J. R. Johnson, and B. M. Fitzpatrick. 2009. Ecological consequences of introduced genes: Invasive tiger salamander genotypes impact native amphibians. Proceedings of the National Academy of Sciences 106:11166-11171.
- (12) Johnson, J. R., R. D. Mahan\*, and R. D. Semlitsch. 2008. Terrestrial microhabitat use by gray treefrogs (*Hyla versicolor*) in oak-hickory forests. Herpetologica 64:259-269.
- (11) Hocking<sup>†</sup>, D. J., T. A. G. Rittenhouse<sup>†</sup>, B. B. Rothermel, J. R. Johnson, C. A. Conner<sup>†</sup>, E. B. Harper<sup>†</sup>, and R. D. Semlitsch. 2008. Breeding and recruitment phenology of amphibians in Missouri oak-hickory forests. American Midland Naturalist 160:41– 60.
- (10) Johnson, J. R., J. H. Knouft, and R. D. Semlitsch. 2007. Sex and seasonal differences in terrestrial distributions and core habitat estimates for populations of the gray treefrog (*Hyla versicolor*). Biological Conservation 140:250-258.
- (9) Mahan\*, R. D. and **J. R. Johnson**. 2007. Diet of the gray treefrog, *Hyla versicolor* in relation to foraging site location. Journal of Herpetology 41:16-23.
- (8) Johnson, J. R. 2006. Success of intracoelomic radiotransmitter implants in the arboreal anuran, *Hyla versicolor*. Lab Animal 35:29-33.
- (7) **Johnson, J. R.** 2005. A novel arboreal pipe-trap designed to capture the gray treefrog (*Hyla versicolor*). Herpetological Review 36:274-277.
- (6) Johnson, J. R. 2005. Gray treefrog (*Hyla versicolor*) record size. Herpetological Review 36:302.
- (5) Daniel, R. E. and J. R. Johnson. 2004. New size records for three species of Missouri amphibians. Annual Newsletter of Missouri Herpetological Association 17:14.
- (4) Johnson, J. R. 2004. Fall breeding of the southern leopard frog (Rana sphenocephala) in central Missouri. Annual Newsletter of Missouri Herpetological Association 17:14.
- (3) Johnson, J. R. and R. D. Semlitsch. 2003. Defining core habitat of local populations of the gray treefrog (*Hyla versicolor*) based on choice of oviposition site. Oecologia 137:205-210.

- (2) Phillips, C. A., J. R. Johnson, M. J. Dreslik<sup>†</sup>, and J. E. Petzing. 2002. Effects of hydroperiod on recruitment of mole salamanders (Genus *Ambystoma*) at a temporary pond in Vermilion County, Illinois. Transactions of the Illinois State Academy of Science 95:131-139.
- Phillips, C. A., M. J., Dreslik<sup>+</sup>, J. R. Johnson, and J. E. Petzing. 2001. Application of population estimation to pond breeding salamanders. Transactions of the Illinois State Academy of Science 94:111-118.

# **GRANTS AND FUNDING** *Career Total*=\$879,284

Extramural (Not Funded)

- *\$50,000.* Patterns of Genetic Diversity in a Karst-associated Salamander. Kentucky Science and Engineering Foundation. Submitted November 2016.
- *\$554,525.* Landscape Genetics of the Central DPS of California Tiger Salamander. US Bureau of Reclamation. *\$30,071* to WKU. (Co-PI with HB Shaffer) Submitted September 2015.
- *\$25,000.* Quantitative genetics of a hybrid swarm. Submitted to Kentucky NSF EPSCoR Research Enhancement Grant (REG) Program. Submitted July 2015.
- Preliminary Proposal: SG: RUI: Linking genotypes to phenotypes in a hybrid swarm: what are the consequences of introgression? NSF, DEB, Evolutionary Genetics. PI. Submitted January 2015
- Preliminary Proposal: RUI: Understanding the evolutionary and ecological consequences of introgression. NSF, DEB, Evolutionary Ecology. PI. Submitted January 2014
- \$529,646. Collaborative Research: Genomic characterization and ecological consequences of a hybrid invasion. NSF, DEB. (Co-PI with HB Shaffer, BM Fitzpatrick, and SR Voss) \$41,173 to WKU. Submitted January 2011.

Extramural (Funded)

- \$7,100. Assessment of salamander distribution in the Great Smoky Mountains National Park through the use of eDNA metabarcoding with an emphasis on a reexamination of the distribution of the rare salamander, *E. junaluska*. Carlos C. Campbell Memorial Fellowship. Great Smoky Mountains Conservation Association. (Co-PI with BF Brammel and EK Strasko†§)
- \$500. Assessing the effect of man-made reservoirs on gene flow of stream-breeding salamanders. Kentucky Academy of Sciences (KAS) Marcia Athey Fund. (co-PI Anna Favalon<sup>+</sup>S)
- \$500. Species distribution and genetic diversity of the Trilling Chorus Frogs (*Pseudacris*) in the state Kentucky. Society for the Study of Amphibians and Reptiles (SSAR) Grant-in-Herpetology. (co-PI Tucker Cambridge†§)
- \$500. Landscape Genetics of California Tiger Salamanders: Inferences from multiple methods. Kentucky Academy of Sciences (KAS) Marcia Athey Fund. (co-PI Samantha Thomas†\$)
- \$600. Adaptive variation in tiger salamander populations in response to environmental change. Kentucky Academy of Sciences (KAS) Marcia Athey Fund. (co-PI Meghan Parsley†§)
- *\$631,284.* Tracking genes in real time as they traverse a hybrid invasion landscape. National Science Foundation, Division of Environmental Biology. 2013-2016. (Co-PI with HB Shaffer) *\$60,647* to WKU.

- \$675. Consequences of two environmental stressors (UV-B radiation and glyphosate-based herbicide) on mortality, immune function, and phenotypic plasticity in two populations of wood frogs (Rana sylvatica). Kentucky Academy of Sciences (KAS) Marcia Athey Fund. (co-PI Nicholas Levis†§)
- *\$5,000.* Comparative landscape genetics of amphibians. KAS Special Research Program. 2012-2013. PI.
- \$500. Comparative landscape genetics of the marbled salamander, *Ambystoma opacum*. KAS Marcia Athey Fund. 2012-2013 (co-PI Kevin Tewell<sup>+</sup>§).

- \$95,000. United States Department of Defense. "Conservation of California tiger salamanders in altered landscapes: Perspectives for future mitigation strategies" 2009-2010. (Co-PI with HB Shaffer)
- \$20,000. California Department of Fish and Game. "Phylogenetic reconstruction of the introduction history of California's extralimital populations of *Ambystoma tigrinum*." 2009 (Co-PI with HB Shaffer and RC Thomson)
- \$12,000. NSF, Research Experience for Undergraduates (REU) Supplement. "Effect of hydroperiod on larval fitness of hybrid and pure tiger salamander types." 2008 (Co-PI with HB Shaffer).
- *\$18,000.* Trans World Airlines. "Multi-scale investigations of gray treefrog (*Hyla versicolor*) movements: From migration to dispersal and gene flow." 2001-2005.
- *\$1,000.* Theodore Roosevelt Memorial Fund "Amphibian movements in an experimental metapopulation." 2003.
- *\$800.* Sigma Xi Scientific Research Society "Scaling genetic differentiation between subpopulations of the gray treefrog, *Hyla versicolor.*" 2000.

Intramural (WKU only)

- \$3,500 Determining patterns of gene flow and genetic structure in spider beetles. Faculty-Undergraduate Student Engagement (FUSE) Program. Western Kentucky University. 2018-2019. (With WKU undergraduate Naiya Sims\*§)
- \$3,500 Growth and survival of amphibians exposed to road salt and glyphosate-based Herbicide. Faculty-Undergraduate Student Engagement (FUSE) Program. Western Kentucky University. 2018-2019. (With WKU undergraduate Jerica Eaton\*§)
- \$3,500 Conservation Genetics of Pacific Treefrogs. Faculty-Undergraduate Student Engagement (FUSE) Program. Western Kentucky University. 2018-2019. (With WKU undergraduate Ellery Denny\*§)
- \$3,500 Analyzing Genetic Diversity in California Amphibian Populations. Faculty-Undergraduate Student Engagement (FUSE) Program. Western Kentucky University. 2018-2019. (With WKU undergraduate Jackson Resser\*§)
- *\$3,500* Faculty-Undergraduate Student Engagement (FUSE) Program. Western Kentucky University. 2017-2018. (With Gatton Academy student Ivy Irihamye\*§)
- *\$16,000.* Comparative Landscape Genomics of Mexican Amphibians. Research and Creative Activities Program (RCAP) Category I, Western Kentucky University. 2016-2017.
- \$4,500. Site selection by the marbled salamander based on substrate pH. Faculty-Undergraduate Student Engagement (FUSE) Program. Western Kentucky University. 2016-2017. (With WKU undergraduate Tosha Shokes\*§)

- \$4,500. Genetic Analysis of a California Newt (*Taricha torosa*) metapopulation. Faculty-Undergraduate Student Engagement (FUSE) Program. Western Kentucky University. 2015-2016. (With WKU undergraduate Jessica Vincent\*§)
- \$4,500. The Effects of Alternative Herbicide Formulations on Salamander Larvae. Faculty-Undergraduate Student Engagement (FUSE) Program. Western Kentucky University. 2015-2016. (With WKU undergraduate Jessica Johnson\*§)
- *\$8,000.* Patterns of Range-wide Genetic Variation in the Cave Salamander. Research and Creative Activities Program (RCAP) Category I, Western Kentucky University. 2014-2015.
- \$4,200. The prevalence of Chytrid fungus in Bullfrog populations of South Central Kentucky. Research Internship Grant. Gatton Academy for Mathematics and Science. Biology Summer Undergraduate Research Experience (BSURE), Western Kentucky University. 2013. (With Gatton Academy student Kevin Ziegler\*§)
- \$4,600. Genetic structure of a pacific chorus frog (*Pseudacris regilla*) metapopulation. Faculty-Undergraduate Student Engagement (FUSE) Program. Western Kentucky University. 2013-2014. (With WKU undergraduate Ryan Vincent\*§)
- \$4,600. Comparisons of genetic diversity among disjunct populations of Magnolia tripetala. FUSE Program. Western Kentucky University. 2012-2013. (With WKU undergraduate Torey Gilkison\*§ and co-advisor Dr. Albert Meier)
- *\$4,600.* Patterns of gene flow in a western toad (*Bufo boreas*) metapopulation. FUSE Program. Western Kentucky University. 2012-2013. (With WKU undergraduate Morgan Murrell)
- *\$15,000.* Epigenetic inheritance in salamanders. RCAP Category I, Western Kentucky University. 2012-2013.
- \$4,000. Landscape Genetics of five species of sympatric amphibians in California. RCAP Category II. Western Kentucky University. 2011-2012.
- \$2,000. Preliminary investigations of cave salamander terrestrial ecology. BSURE, Western Kentucky University. 2011. (With WKU undergraduate Evan Sutton\*§)

## **PRESENTATIONS** 41 oral, 28 posters, 1 virtual

*\*undergraduate student coauthor, †graduate student coauthor, §WKU student coauthor* 

## Invited Presentations

- (12) **Johnson, J. R.** Department of Biology, Western Kentucky University, Bowling Green, KY. 16 November 2018.
- (11) Johnson, J. R. The Science, Management, and Policy of Amphibian Conservation Symposium. Joint Meeting of Ichthyologists and Herpetologists (JMIH), Austin TX. 15 July 2017.
- (10) **Johnson, J. R.** Department of Biology, Murray State University, Murray, KY. 13 November 2015.
- (9) Johnson, J. R. Department of Biology, Centre College, Danville, KY. 8 November 2012.
- (8) Johnson, J. R. Department of Zoology, Miami University, Oxford, OH. 14 February 2012.
- (7) Johnson, J. R. Department of Biology, Eastern Kentucky University, Richmond, KY. 11 February 2011.

- (6) Shaffer, H. B., Johnson, J. R., and B. M. Fitzpatrick. Conservation Genetics Symposium. America Genetics Association Annual Meeting. Hilo, HI. 27 July 2010.
- (5) Johnson, J. R. Invasive species seminar series. Department of Evolution and Ecology, University of California, Davis, CA. 10 May 2010.
- (4) Johnson, J. R. Department of Biology, Western Kentucky University, Bowling Green, KY. 26 February 2010.
- (3) Johnson, J. R. Davis Chapter of the Society for Conservation Biology, University of California, Davis, CA. 18 March 2008.
- (2) Johnson, J. R. Herpetology group, Washington University, St. Louis, MO. 09 November 2005.
- (1) **Johnson, J. R.** and R. D. Semlitsch. Amphibian and reptile conservation symposium, Midwest Fish and Wildlife Meeting, Indianapolis, IN. 13 December 2004.
- Contributed Presentations (National/International Meetings)
- (27) Eaton\*§, J. and J. R. Johnson. (poster) Association of Southeastern Biologists (ASB). Winston-Salem NC. 18 March 2023.
- (26) **Johnson, J. R.**, A. J. Barley, and R. C. Thomson. Association of Southeastern Biologists (ASB). Memphis TN. 5 April 2019.
- (25) Irihamye\*§, I. and J. R. Johnson. (poster) Association of Southeastern Biologists (ASB). Memphis TN. 5 April 2019.
- (24) Drake, D, B. Ousterhout, J. R. Johnson, T Anderson, C. Shulse, K. Lohraff, W. Peterman, T. Rittenhouse, and B. Rothermel. (poster) Joint Meeting of Ichthyologists and Herpetologists (JMIH), Austin TX. 15 July 2017.
- (23) Parsley†§, M. and J. R. Johnson. Joint Meeting of Ichthyologists and Herpetologists (JMIH), Austin TX. 14 July 2017.
- (22) Thomas†§, S. and J. R. Johnson. Joint Meeting of Ichthyologists and Herpetologists (JMIH), Austin TX. 14 July 2017.
- (21) Anderson<sup>†</sup>§, K. and **J. R. Johnson**. (poster) Joint Meeting of Ichthyologists and Herpetologists (JMIH), New Orleans, LA. 9 July 2016.
- (20) Johnson\*§, J. J. and **J. R. Johnson**. (poster) Joint Meeting of ASIH, AES, HL, and SSAR. New Orleans, LA. 9 July 2016.
- (19) Gilkison\*§, V. A., A. J. Meier, and J. R. Johnson. (poster) Comparisons of Genetic Diversity among Disjunct Populations of *Magnolia tripetala*. Ecological Society of America Annual Meeting, Sacramento, CA. 15 August 2014.
- (18) Levis†§, N. A. and J. R. Johnson. Joint Meeting of Ichthyologists and Herpetologists (JMIH), Chattanooga, TN. 31 July 2014.
- (17) Tewell†§, K. J. and **J. R. Johnson**. Joint Meeting of Ichthyologists and Herpetologists (JMIH), Albuquerque, NM. 8 July 2013.
- (16) Johnson, J. R., M. E. Ryan, S. J. Micheletti\*, B. B. Johnson\*, and H. B. Shaffer. Joint Meeting of Ichthyologists and Herpetologists (JMIH), Albuquerque, NM. 5 July 2013.
- (15) Johnson, J. R., and H. B. Shaffer. Joint Meeting of Ichthyologists and Herpetologists (JMIH), Minneapolis, MN. 10 July 2011.

- (14) Ryan<sup>†</sup>, M. E., J. R. Johnson, B. M. Fitzpatrick, L. J. Lowenstine, A. M. Picco<sup>†</sup>, H. B. Shaffer, and P. Chesson. Ecological Society of America (ESA) Annual Meeting. Pittsburgh, PA. 2 August 2010.
- (13) Johnson, J. R., M.E. Ryan<sup>+</sup>, S. J. Micheletti<sup>\*</sup>, and H. B. Shaffer. Joint Meeting of Ichthyologists and Herpetologists (JMIH), Portland, OR. 27 July 2009.
- (12) Johnson, J. R., B. B. Johnson\*, and H. B. Shaffer. (poster) Joint Meeting of Ichthyologists and Herpetologists (JMIH), Portland, OR. 20 July 2009.
- (11) Johnson, J. R., B. M. Fitzpatrick, and H. B. Shaffer. Joint annual meeting of the Society for the Study of Evolution (SSE), the Society of Systematic Biologists (SSB), and the American Society of Naturalists (ASN). Minneapolis, MN. 21 June 2008.
- (10) Ryan<sup>†</sup>, M. E., and **J. R. Johnson**. ESA Annual Meeting. Milwaukee, WI. 5 August 2008
- (9) Johnson, J. R. and H. B. Shaffer. Joint Meeting of Ichthyologists and Herpetologists (JMIH), St. Louis, MO. 16 July 2007.
- (8) Hocking<sup>†</sup>, D. J., T. A. G. Rittenhouse<sup>†</sup>, B. B. Rothermel, J. R. Johnson, C. A. Conner<sup>†</sup>, E. B. Harper<sup>†</sup> and R. D. Semlitsch. (poster) Joint Meeting of Ichthyologists and Herpetologists (JMIH), St. Louis, MO. 13 July 2007.
- (7) Johnson, J. R. (poster) Joint Meeting of Ichthyologists and Herpetologists (JMIH), New Orleans, LA. 15 July 2006.
- (6) Johnson, J. R. and R. D. Semlitsch. Society for Conservation Biology. San Jose, CA. 28 June 2006.
- (5) Johnson, J. R. Joint Meeting of Ichthyologists and Herpetologists (JMIH), Tampa, FL. 08 July 2005.
- (4) Johnson, J. R. (poster) Joint Meeting of Ichthyologists and Herpetologists (JMIH), Tampa, FL. 08 July 2005.
- (3) Johnson, J. R. and R. D. Semlitsch. Joint Meeting of Ichthyologists and Herpetologists (JMIH), Norman, OK. 30 May 2004.
- (2) Johnson, J. R. and R. D. Semlitsch. (poster) Joint Meeting of Ichthyologists and Herpetologists (JMIH), Kansas City, MO. 6 July, 2002.
- (1) Johnson\*, J. R. and C. A. Phillips. Joint Meeting of Ichthyologists and Herpetologists (JMIH), State College, PA. 29 June, 1999.

Contributed Presentations (Local/Regional Meetings)

- (33) Eaton\*§, J. and J. R. Johnson (poster) Kentucky Academy of Sciences (KAS) Annual Meeting, Morehead State University, Morehead, KY. November 2022.
- (32) Resser\*§, J. J. and **J. R. Johnson** (online video presentation) Student Research Conference, Western Kentucky University. 2 May 2020.
- (31) Irihamye\*§, I. and J. R. Johnson (poster) Student Research Conference, Western Kentucky University. 23 March 2019.
- (30) Austin\*§, H. and **J. R. Johnson** (poster) Student Research Conference, Western Kentucky University. 24 March 2018.
- (29) Thomas†§, S. and J. R. Johnson. Kentucky Academy of Sciences (KAS) Annual Meeting, Murray State University, Murray, KY. 4 November 2017.
- (28) Shokes\*§, T. and J. R. Johnson. (poster) Kentucky Academy of Sciences (KAS) Annual Meeting, Murray State University, Murray, KY. 3 November 2017.
- (27) Johnson\*§, J. and J. R. Johnson. (poster) Posters at the Capitol, Frankfort, KY. 2 March 2017.

- (26) Anderson†§, K. and J. R. Johnson. Kentucky Academy of Sciences (KAS) Annual Meeting, Louisville, KY. 5 November 2016.
- (25) Vincent\*§, J. and J. R. Johnson. (poster) Kentucky Academy of Sciences (KAS) Annual Meeting, Louisville, KY. 4 November 2016.
- (24) Anderson<sup>†</sup>§, K. and **J. R. Johnson**. (poster) Student Research Conference, Western Kentucky University. 2 April 2016.
- (23) Johnson\*§, J. and J. R. Johnson (poster) Student Research Conference, Western Kentucky University. 2 April 2016.
- (22) King\*§, E., A. K. Fehrenbach†§, J. R. Johnson, M. E. Smith. (poster) Functional recovery of axolotl hearing following sound exposure. Student Research Conference, Western Kentucky University. 28 March 2015.
- (21) Vincent\*§, R. A. and J. R. Johnson. Student Research Conference, Western Kentucky University. 22 March 2014.
- (20) Levis<sup>†</sup>§, N. A. and J. R. Johnson. Southeast Partners in Amphibian and Reptile Conservation (SEPARC) Annual Meeting, Cumberland Lake State Park, KY. 15 February 2014.
- (19) Levis†§, N. A. and J. R. Johnson. Kentucky Academy of Sciences (KAS) Annual Meeting, Morehead, KY. 09 November 2013.
- (18) Murrell\*§, M. M. and J. R. Johnson. (poster) KAS Annual Meeting, Morehead, KY. 09 November 2013.
- (17) Vincent\*§, R. A. and J. R. Johnson. (poster) KAS Annual Meeting, Morehead, KY. 09 November 2013.
- (16) Ziegler\*§, K. J. and J. R. Johnson. (poster) KAS Annual Meeting, Morehead, KY. 09 November 2013.
- (15) Tewell†§, K. J. and **J. R. Johnson**. Mammoth Cave Research Symposium. Mammoth Cave National Park, KY. 14 February 2013.
- (14) Gilkison\*§, V. A., J. R. Johnson, and A. Meier. (poster) Student Research Conference, Western Kentucky University. 23 March 2013.
- (13) Leigh\*, D. B., K. J. Tewell†§, and J. R. Johnson. (poster) NSF REU poster session, Western Kentucky University. Bowling Green, KY. 2 August 2012.
- (12) Leigh\*, D. B., K. J. Tewell†§, and J. R. Johnson. (poster) KAS Annual Meeting, Richmond, KY. 20 October 2012.
- (11) Tewell†§, K. J. and **J. R. Johnson**. KAS Annual Meeting, Richmond, KY. 20 October 2012.
- (10) Sutton\*§, J. E. and J. R. Johnson. Department of Biology BSURE Symposium. Western Kentucky University. Bowling Green, KY. 9 September 2011.
- (9) Woronik\*, A. R., B. S. McCullaugh\*§, and **J. R. Johnson**. (poster) NSF REU poster session, Western Kentucky University. Bowling Green, KY. 10 August 2011.

- (8) Fitzpatrick, B. M., S. P. D. Riley, S. R. Voss, J. R. Johnson, and H. B. Shaffer. (poster) Southeastern Population Ecology and Evolutionary Genetics Conference. Knoxville, TN. 22 Sept 2007.
- (7) Johnson, J. R. Dissertation Defense. University of Missouri, Columbia, MO. 29 June 2005.

- (6) Johnson, J. R. and R. D. Semlitsch. Missouri Herpetological Association. Squaw Creek National Wildlife Refuge, Mound City, MO. 25 September 2004.
- (5) Johnson, J. R. Ecolunch. University of Missouri, Columbia, MO. 21 April 2004.
- (4) Johnson, J. R. and R. D. Semlitsch. (poster) Life Sciences Week. University of Missouri, Columbia, MO. 19 February 2003.
- (3) Johnson, J. R. and R. D. Semlitsch. (poster) Divisional of Biological Sciences Retreat. Woodson K. Woods Memorial Wildlife Area, St. James, MO. 23 August 2002.
- (2) Johnson, J. R. Ecolunch. University of Missouri, Columbia, MO. 24 April 2002.
- (1) Johnson\*, J. R. and C. A. Phillips. Illinois Chapter of the Wildlife Society. Allerton Park, Allerton, IL. 4 March 1999.

#### AWARDS AND FELLOWSHIPS

- 2022 Western Kentucky University Office of Research and Creative Activities, *Prolific* Proposer Award
- 2022 Western Kentucky University Department of Biology, Faculty Mentoring Award
- 2016 Western Kentucky University Ogden College, Research and Creative Activity Award
- 2013 Western Kentucky University Office of Research and Creative Activities, Junior Investigator Award
- 2012 Western Kentucky University Office of Research and Creative Activities, Junior Investigator Award
- 2012 Western Kentucky University Office of Research and Creative Activities, *First Time Awardee Award*

### Prior to WKU

- 2005—University of Missouri Department of Biological Sciences, Outstanding Graduate Achievement Award (finalist)
- 2001-United States Department of Education Graduate Assistantship (2001 2004)
- 2000—National Science Foundation Pre-doctoral Fellowship (honorable mention)
- 1999—University of Missouri Department of Biological Sciences, William Gregory Fellowship
- 1999—University of Illinois Department of Ecology, Ethology, & Evolution, Outstanding Undergraduate Award

#### STUDENT AWARDS

2023

- Eaton, J. Western Kentucky University Department of Biology, Larry N. Gleason Award for Excellence in Undergraduate Research.
- Strasko, E. Western Kentucky University Department of Biology, Outstanding Graduate Student

2022

- Eaton, J. Kentucky Academy of Sciences, *Top-scoring student*, Undergraduate Poster in Ecology and Environmental Science.
- Sims, N. Western Kentucky University Department of Biology, Outstanding Biodiversity Student.

2021

Lawrence, S. Western Kentucky University Department of Biology, Larry N. Gleason Award for Excellence in Undergraduate Research.

2019

Irihamye, I. Western Kentucky University Student Research Conference, 1<sup>st</sup> place *undergraduate student poster*.

2018

- Austin, H. Western Kentucky University Department of Biology, Larry N. Gleason Award for Excellence in Undergraduate Research.
- Austin, H. Western Kentucky University Student Research Conference, 1<sup>st</sup> place undergraduate student poster.

2017

- Johnson, J. Western Kentucky University Department of Biology, Outstanding Biodiversity Student.
- Parsley, M. Society for the Study of Amphibians and Reptiles, 2<sup>nd</sup> place Henry Seibert Award Best Student Paper in Conservation
- Parsley, M. Western Kentucky University Department of Biology, Outstanding Graduate Student

2016

- Anderson, K. Western Kentucky University Student Research Conference, 1<sup>st</sup> place graduate student poster
- Johnson, J. Western Kentucky University Department of Biology, Larry N. Gleason Award for Excellence in Undergraduate Research.
- Johnson, J. Western Kentucky University Student Research Conference, 1<sup>st</sup> place undergraduate graduate student poster
- Parsley, M. Western Kentucky University Department of Biology, Outstanding First Year Graduate Student

2014

- Levis, N. A. Western Kentucky University Graduate School, Minton Award.
- Levis, N. A. Western Kentucky University Department of Biology, Outstanding Graduate Student Award.
- Vincent, R. A. Western Kentucky University Department of Biology, Outstanding Biotechnology Student Award.

2013

- Gilkison, V. Western Kentucky University Department of Biology, Larry N. Gleason Award for Excellence in Undergraduate Research.
- Levis, N. A. Kentucky Academy of Sciences, 2nd Place, Graduate Student Presentation in Ecology and Environmental Science.
- Levis, N. A. Western Kentucky University Department of Biology, Outstanding First Year Graduate Student.
- Murrell, M. M. Kentucky Academy of Sciences, 1st Place, Undergraduate Poster in Zoology.
- Vincent, R. Kentucky Academy of Sciences, 1st Place, Undergraduate Poster in Ecology and Environmental Science.
- Ziegler, K. Gatton Academy, Summer Research Internship Grant.
- Ziegler, K. Western Kentucky University Department of Biology, Biology Summer Undergraduate Research Experience (BSURE).

## 2012

- Gilkison, V. A. Western Kentucky University Office of Sponsored Programs, Faculty-Undergraduate Student Engagement (FUSE) Award.
- Levis, N. A. Kentucky Academy of Sciences, Marcia Athey Award.
- Tewell, K. J. Kentucky Academy of Sciences, 2nd Place, Graduate Student Presentation in Ecology and Environmental Science.
- Tewell, K. J. Kentucky Academy of Sciences, Marcia Athey Award.
- Tewell, K. J. Sigma Xi Scientific Research Society, Grants-in-aid-of-research.
- Tewell, K. J. Western Kentucky University Department of Biology, Outstanding First Year Graduate Student.
- Murrell, M. M. Western Kentucky University Office of Sponsored Programs, Faculty-Undergraduate Student Engagement (FUSE) Award.
- Vincent, R. Western Kentucky University Office of Sponsored Programs, Faculty-Undergraduate Student Engagement (FUSE) Award.

2011

Sutton, J. E. Western Kentucky University Department of Biology, BSURE.

# TEACHING

# **TEACHING EXPERIENCE**

*†online, Shybrid* 

Full Professor, Western Kentucky University (2022-present) BIOL 337 (Genetics Laboratory) Fall 2022 BIOL 582 (Biometry) Fall 2022, Spring 2023<sup>+</sup> BIOL 516 (Investigations/Biology Capstone) Spring 2023<sup>+</sup> BIOL 675 (Landscape Genetics), Spring 2023 Associate Professor, Western Kentucky University (2016-present) BIOL 327 (Genetics) Summer 2017<sup>+</sup>, Fall 2017, Winter 2018<sup>+</sup>, Summer 2018<sup>+</sup>, Fall 2018, Winter 2019<sup>+</sup>, Summer 2019<sup>+</sup>, Fall 2019, Summer 2021<sup>+</sup>, Fall 2021 BIOL 337 (Genetics Laboratory) Spring 2017, Fall 2019, Fall 2020<sup>+</sup>, Summer 2021<sup>+</sup>, Fall 2021 BIOL 397 (Scientific Process) Spring 2019 BIOL 457 (Herpetology) Spring 2020, Spring 2022 BIOL 457G (Herpetology) Spring 2020, Spring 2022 BIOL 457H (Herpetology) Spring 2020, Spring 2022 BIOL 503 (Contemporary Topics) Fall 2021 BIOL 524 (Evolutionary and Ecological Genetics) Spring 2017, Spring 2019, Spring 2020<sup>+</sup>, Spring 2021, Spring 2022<sup>§</sup> BIOL 582 (Biometry) Fall 2016, Fall 2017, Fall 2018, Fall 2020<sup>+</sup>, Spring 2021<sup>+</sup> BIOL 598 (Graduate Seminar) Fall 2021<sup>+</sup>, Spring 2022<sup>§</sup> BIOL 675 (Landscape Genetics) Fall 2017 Assistant Professor, Western Kentucky University (2010-2016) BIOL 122 (Biological Concepts II) Spring 2011, Fall 2015 BIOL 327 (Genetics) Fall semesters 2010-2014, Spring 2011 BIOL 327H (Honors Genetics) Spring 2013, Fall 2015 BIOL 337 (Genetics Laboratory) Fall 2014 BIOL 457 (Herpetology) Spring 2012, Spring 2014, Spring 2016

BIOL 457G (Herpetology) Spring 2012, Spring 2014, Spring 2016
BIOL 457H (Herpetology) Spring 2014, Spring 2016
BIOL 524 (Evolutionary and Ecological Genetics) Spring 2013
BIOL 598 (Graduate Seminar) Fall 2015
BIOL 675 (Population Genetics) Spring 2012, Fall 2015
BIOL 675 (Statistical Analysis in R) Fall 2011

# Prior to WKU

*Graduate Teaching Assistant*, University of Missouri (2000-2005) BIO 2200 (Genetics) 2004. BIO 4600 (Evolution) 2002. BIO 3360 (Herpetology) 2001, 2005. BIO 3650 (General Ecology) 2000, 2003. BIO 1500 (Introductory Biology) 2000, 2003, 2004.

# UNDERGRADUATE STUDENT MENTORING

\*co-authored publication(s), *†*co-authored presentation(s)

Western Kentucky University
Honors Thesis Chair
Naiya Sims—2022-present
FUSE Grant Recipient
Jerica Eaton—2022-present
FUSE Grant Recipient
Jackson Resser†—2019-2020 (defended Spring 2020—Passed with honors)
FUSE Grant Recipient
Haley Austin†—2017-2018 (defended Spring 2018—Passed with honors)
Jessica Vincent†—2015-2017
FUSE Grant Recipient (defended Spring 2017—Passed with honors)
Jessica Johnson†—2015-2017
FUSE Grant Recipient (defended Spring 2017—Passed with honors)
Ryan Vincent†—2012-13
FUSE Grant Recipient (defended Summer 2014—Passed with honors)
Morgan Murrell†—2012-13
FUSE Grant Recipient (defended Fall 2013—Passed with honors)
Torey Gilkison*†—2012-13
FUSE Grant Recipient (defended Summer 2013—Passed with distinction)
Honors Thesis Committee Member
Jonathan Smith—2018-2019 (Michael Smith, chair)
Audrey Brown—2015-2016 (Noah Ashley, chair)
Mitchell Schooler-2014-2015 (Michael Collyer, chair)
Spencer Wright—2013-2014 (Nancy Rice, chair)
Independent Research Students (BIOL 399)
Andrew Jackson—2023-present
Ethan Baird—2022
Stephanie Lawrence—2020-2021

Summer Wei—2020 Olivia McCallister-2020 Ellery Denny-2019, FUSE Grant Recipient Ivy Irihamye†—2018-2019, Gatton Academy High School Student, FUSE Grant Recipient Brooke Walden—2018-2019 Kaitlyn Menser-2018 Tosha Shokes†-2017-2018, FUSE Grant Recipient Kaley Burden-2016-2017 Katlyn Clark—2016-2017 Jasen Davis—2016-2017 Storm Dutton-2016 Courtney Waterbury-2014-2016 Evan Cowles—2015 Jordan Jones—2014 Allison Evans-2013 Kevin Ziegler+-2013, Gatton Academy Research Grant and BSURE Recipient Jacob Floyd—2013 Andi Esterle-2012-13 Gabrielle Hamilton-2012-13, Gatton Academy High School Student Evan Sutton†-2011-12, BSURE Recipient Sarah Lowe-2011-12 Stephen Mattingly-2011-12, Gatton Academy High School Student Jason Young—2011 Bonnie McCullaugh†-2010-11

## NSF Site REU Students

Dana Leigh†—2012, Eastern Kentucky University Alyssa Woronik†—2011, Sacred Heart University

#### Prior to WKU

University of California

Angela Akens—Independent Research Practicum 2008-10 Nora Norvell—Davis High School Occupation Program 2009 Hilary Teaford—Davis High School Occupation Program 2009 Benjamin Johnson\*†—Independent Research Practicum 2007-9 Steven Micheletti\*†—NSF REU 2007-8

University of Missouri

Tiffanie Hamilton – Federal Work/Study Program 2005 Rachel Mahan\*† – Life Sciences Research Fellow 2004-5 Jeffery Haynes – Senior Capstone Project 2003-4

### **GRADUATE STUDENT MENTORING**

Western Kentucky University <u>Thesis Committee Chair</u> Jerica Eaton—incoming Anna Favalon—*in progress* Elizabeth Strasko—*in progress* Georgia Ficarra—M.S. Spring 2021 Tucker Cambridge—M.S. Spring 2018 Samantha Thomas—M.S. Spring 2017 Meghan Parsley—M.S. Fall 2017 Kenneth Anderson—M.S. Fall 2016 Nick Levis—M.S. Spring 2014 Kevin James Martin Tewell—M.S. Fall 2013

### Non-thesis/Online Committee Chair (BIOL 516 Mentor)

Hailey Conn—upcoming Melinda Galette—upcoming James Young—in progress Lauren Gottschalk—in progress Christy Woodring—in stasis Eric Good—in stasis Amy Cherrywell—M.S. Spring 2021 Michael Barrow—M.S. Fall 2015 Jennifer Welch—M.S. Summer 2012

Thesis Committee Member

Jacob Bowen (Keith Philips, chair)-in progress Madison Layer (Scott Grubbs, chair)-in progress Robert Chambliss (Keith Philips, chair)-M.S. Spring 2022 Caleb Miller (Albert Meier, chair)—M.S. Spring 2022 Phillip Hogan (Scott Grubbs, chair)-M.S. Spring 2021 Taylor Verrett (Carl Dick, chair)-M.S. Spring 2021 Lauren Kappel (Steve Huskey, chair)-M.S. Spring 2020 Taylor McRoberts (Scott Grubbs, chair)-M.S. Spring 2020 Madeline Metzger (Scott Grubbs, chair)-M.S. Spring 2020 Jedediah Nixon (Keith Philips, chair)—M.S. Spring 2020 Katie Laslie (Michael Smith, chair)-M.S. Summer 2018 Samuel Tegge (Steve Huskey, chair)-M.S. Spring 2018 Mitchell Schooler (Carl Dick, chair)-M.S. Spring 2017 Qianna Xu (Mike Collyer, chair)—M.S. Spring 2017 Chase LaDue (Bruce Schulte, chair)-M.S. Spring 2016 Olivia Boyd (Keith Philips, chair)—M.S. Spring 2015

## SERVICE

## UNIVERSITY SERVICE

Biology Representative, Faculty Senate (2019-2021) Member, Biotechnology Center Executive Committee (2013-present) Ogden College Representative, Research and Creative Activity Program (RCAP) Review Committee (2015-2016, 2019-2020) Ogden College Representative (at-large), Faculty Senate (2016-2018) Chair, Biotechnology Center Bylaws Committee (2012-2015)

#### **COLLEGE SERVICE**

Biology Representative, Ogden College Sabbatical Committee (2020) Biology Representative, Ogden College Curriculum Committee (2019-2020) Member, Ogden College Dean's Recruitment Committee (2017-2018)

#### DEPARTMENTAL SERVICE

Co-chair, Biology Awards and Scholarships Committee (2023-present) Director, Online Biology Graduate Program (2020-present) Member, Biology Graduate Program Committee (2015-present) Faculty Mentor, Wildlife and Conservation Club (2014-present) Member, Cell/Molecular Biology Search Committee (2022) Member, Biology Graduate Curriculum Committee (2015-2020) Chair, Biology Awards Committee (2013-2020) Member, Anatomy and Physiology Search Committee (2017) Co-Chair, Biology Departmental Seminar Committee (2013-2015) Member, Biology Undergraduate Curriculum Committee (2010-2015) Member, Genome Discovery and Exploration Technician Search Committee (2014) Member, Biostatistics Search Committee (2011)

#### **PROFESSIONAL SERVICE**

Associate Editor-American Midland Naturalist (2012-2016)

Grant Reviewer

### <u>External</u>

U.S. Department of the Interior, Bureau of Reclamation, Central Valley Project Conservation Program, *ad hoc* review 2013

National Science Foundation (NSF) Organism-Environment Interactions Program, Division of Integrative Organismal Systems, *ad hoc* review 2012 NSF Office of International Science and Engineering, International Research Fellowship Program, *ad hoc* review 2011

NSF Evolutionary Processes Cluster, Division of Environmental Biology, ad hoc review 2011

NSF ad hoc reviewer, 2007; 2009; 2010

#### Internal

Western Kentucky University, RCAP Grants, 2015-2016, 2019-2020 Western Kentucky University, FUSE Grants, 2012-2022

#### Article Reviewer

2023—(1) Conservation Biology

<u>2022</u>—(2) Herpetological Conservation and Biology, Journal of the Kentucky Academy of Science

<u>2021</u>—(2) Amphibia-Reptilia, Journal of Integrated Zoology

2020—(2) Journal of Herpetology, Science of the Total Environment

- <u>2019</u>—(4) Ecology and Evolution, Herpetological Conservation and Biology, Journal of Herpetology
- 2018—(2) Herpetological Conservation and Biology, PLOS One
- <u>2017</u>—(2) Copeia, PeerJ
- 2016—(2) Journal of Herpetology, Biological Conservation
- <u>2015</u>—(3) Conservation Genetics, Herpetological Review, Zoological Studies
- 2014—(2) Conservation Genetics, Herpetological Conservation and Biology
- <u>2013</u>—(7) Conservation Genetics, Heredity, Herpetological Conservation and Biology, Journal for Nature Conservation, Ecology and Evolution, PLoS One, American Midland Naturalist
- <u>2012</u>—(4) Biological Conservation, Molecular Ecology Resources, Landscape Ecology, Copeia
- 2011 (3) Molecular Ecology, Molecular Ecology Resources, Zoology
- 2010—(2) Endangered Species Research, Evolution

<u>Prior to WKU</u>—(22) American Midland Naturalist, Amphibia-Reptilia, Applied Ichthyology, Biological Conservation (2), Copeia, Ecological Applications, Herpetologica (2), Herpetological Review (4), Journal of Herpetology (5), Journal of Wildlife Management, Molecular Ecology, Oikos, and Southeastern Naturalist.

## **BROADER IMPACTS & ACTIVITIES**

Professional Memberships

Association of Southeastern Biologists (2018-present)

WKU Biodiversity Center (2010-present)

WKU Biotechnology Center (2010-present)

Kentucky Academy of Science (2010-present)

Society for the Study of Amphibians and Reptiles (1998-present)

Herpetologists' League (1997-2010, 2016-2018)

American Association of Ichthyologists and Herpetologists (2000-2010)

Society for the Study of Conservation Biology (2002-2005)

#### Science Olympiad

<u>Events Coordinator</u>—Biology Events (2013-2017) <u>Event Supervisor</u>

Bio Processes (2015, 2016) Designer Genes (2013, 2014) Heredity (2013, 2014) Invasive Species (2016, 2017) Entomology (2014) Forestry (2013) Microbe Mission (2011-2012) Amphibians and Reptiles/Herpetology (2009)

Judge

<u>Association of Southeastern Biologists</u> Student poster presentations (2019) Joint Annual Meeting of Ichthyologists and Herpetologists "Society for the Study of Amphibians and Reptiles Siebert Conservation" student oral presentations (2016)

Kentucky Academy of Science Annual Meeting

"Zoology" student poster presentations (2017-2018)

"Ecology and Environmental Science" student oral presentations (2013)

"Ecology and Environmental Science" student poster presentations (2013)

"Zoology" graduate student oral presentations (2010)

"Zoology" undergraduate student oral presentations (2010)

Classroom Demonstrations

Art Matters Camp, Bowling Green, KY-2021

Cumberland Trace Elementary, Bowling Green, KY—2011, 2015, 2016, 2018, 2019, 2021

Plum Tree Montessori School, Bowling Green, KY—2011, 2014, 2016, 2022 Potter Gray Elementary School, Bowling Green, KY—2012

Contributing Author—World Book Encyclopedia "Newt" & "Tiger Salamander" entries (2012) "Treefrog" & "Axolotl" entries (2009)