

## STEPHEN J. MULLIN

Department of Biological Sciences  
Arkansas State University  
Jonesboro, AR 72401

tel: 870.972.3082  
email: smullin@astate.edu

### EDUCATION

- Ph.D. Biology, University of Memphis, 1998.  
Major Professors: Robert J. Cooper & William H.N. Gutzke
- M.S. Zoology, University of South Florida, 1992.  
Major Professor: Henry R. Mushinsky
- B.A. Zoology, University of California at Berkeley, 1989.  
Major Advisor: Harry W. Greene

### ACADEMIC & ADMINISTRATIVE APPOINTMENTS

- 2020-present **Professor & Chair**, Dept. of Biological Sciences, Arkansas State University:  
Biology of Animals; Comparative Vertebrate Anatomy, Herpetology, Seminar.
- 2015-2020 **Professor & Chair**, Dept. of Biology, Stephen F. Austin State University (SFA).
- 2011-present **Instructor**, Southwest Research Station, American Museum of Natural History:  
Field Herpetology of the Southwest.
- 2009-2015 **Professor of Biological Sciences**, Eastern Illinois University (EIU).
- 2009-2010 **Interim Associate Chair** of Biological Sciences, EIU.
- 2006-present **Board of Trustees**, Herpetologists' League.
- 2004-2009 **Associate Professor of Biological Sciences**, EIU.
- 1999-2004 **Assistant Professor of Biological Sciences**, EIU.
- 1998-1999 **Visiting Assistant Professor of Biology**, University of Central Arkansas:  
Introductory Environmental Science; General Education Biology.
- 1998 **Adjunct Professor of Liberal Studies**, Memphis College of Art: General Ecology.
- 1996-1997 **Lecturer**, Dept. of Biology, Univ. of Memphis.

### RESEARCH & RELATED EXPERIENCE

- 1998-present **Behavioral and conservation ecology**: Predator-prey dynamics, community and foraging ecology, and conservation; native/exotic predator-prey interactions; amphibian community structure; habitat selection in reptiles.
- 1995 **Zoo keeper**, Memphis Zoo & Aquarium: Maintained large diversity of fish and herpetofauna, including feeding, husbandry, SSP record-keeping, and construction of reserve pens and breeding habitats.
- 1991 **Field biologist**, Biological Research Associates (Tampa, FL): Conducted transect surveys for amphibians, reptiles and birds.
- 1990 **Research assistant**, Center for Scientific Computing, Univ. of South Florida: Conducted neurophysiological research investigating the neural network of color vision in humans.

**AWARDS & RECOGNITION**

- 2013 Achievement & Contribution Award (Research category), EIU.  
 2008 Achievement & Contribution Award (Balanced category), EIU.  
 2007 Graduate Dean's Award of Excellence in Research, EIU.  
 2006 Achievement & Contribution Award (Research category), EIU.  
 2006 Dean's Award for Research Proposal Excellence, EIU.  
 2001 Achievement & Contribution Award (Balanced category), EIU.  
 1998 Best Oral Presentation, Univ. of Memphis Graduate Research Forum, Life & Health Sciences section.  
 1997 Meritorious Teaching Assistant of the Year, Univ. of Memphis.  
 1996 Herpetologists' League Award for Graduate Student Research, Finalist.  
 1991-92 Teaching Assistant of the Year, Univ. of South Florida, Dept. of Biology.

**GRANTS & FELLOWSHIPS (last 15 years)**

- 2020-2021 Assessing the Population Status of Brazos River Watersnakes (Colubridae: *Nerodia*). Texas Parks & Wildlife Dept. CLP program.  
 2016-2017 Acquisition of transmission and scanning electron microscopes. SFA Office of Research & Sponsored Programs (co-PI with J. Taylor).  
 2014-2015 Manipulative moms: Examining the relationships between environmental variables and offspring traits in a live-bearing snake species. EIU Council on Faculty Research.  
 2014-2015 Safe passage: The hose bridge as a model conduit system during seasonal peaks in the migration of small diurnal snakes. Wildlife Preservation Fund, Illinois Department of Natural Resources.  
 2014-2015 Stable isotopes in semi-aquatic serpents: A viable tool for dietary analysis in mudsnakes (Colubridae: *Farancia*). EIU President's Fund for Research & Creative Activity.  
 2012-13 Turning over a new leaf: Quantifying niche breadth in leaf-litter snakes using stable isotope analysis. EIU Council on Faculty Research.  
 2011-12 Conservation strategies for migrating populations of leaf-litter snakes at an Illinois state park. Wildlife Preservation Fund, Illinois Department of Natural Resources.  
 2010-11 The community ecology associated with Hog-nosed Snakes. Wildlife Preservation Fund, Illinois Department of Natural Resources.  
 2009-10 The interaction of diet and behavior in toad-eating snakes that feigns death (Colubridae: *Heterodon*). EIU Council on Faculty Research.  
 2008-09 Predatory response as a function of prey type in newborn snakes (Colubridae: *Thamnophis*). EIU Council on Faculty Research.  
 2006-07 Microhabitat alteration and its effects on the selection of foraging sites by prairie kingsnakes. EIU Council on Faculty Research.  
 2006-07 Repatriation as a mechanism for restoring a pond-breeding amphibian community. U.S. Fish & Wildlife Service and Illinois Dept. of Natural Resources.

In all remaining sections: Items dated 2015–2020 are associated with my appointment at SFA, whereas items dated before 2015 occurred at EIU.

**PROFESSIONAL ACTIVITIES****– Graduate students** (major professor)

2020-present	Jessica Johnson – Population assessment of Brazos River Watersnakes.
2018-present	McKenzie Wasley – Interactions between native and invasive frog larvae.
2017-present	Allison McElroy (non-thesis).
2015-2018	Zachary Marcou – Comparing snake communities in national forests.
2014-2016	Sarah Manka – Mitigating road mortality for Midland Brownsnakes.
2013-2015	Cynthia Carter – Dietary ecology of Western Mudsnares.
2012-2014	Meagan Thomas – Dietary overlap within a leaf-litter snake community.
2011-2013	Corissa Lennon – Using stable isotopes to determine the diet of racers.
2009-2011	Andrew Durso – Dietary influence on behavior in hog-nosed snakes.
2008-2010	Kathryn Hale – Predatory responses in neonate gartersnakes.
2008-2010	Lorin Neuman-Lee – Toxicant transfer in pregnant watersnakes.
2005-2009	Lee Gross – Ecotoxicants influencing pond-breeding amphibians.
2006-2008	Angela Fornell – Foraging modes and site selection in kingsnakes.
2005-2007	Melanie Olds – Activity and over-wintering site fidelity in watersnakes.
2003-2005	Sarabeth Klueh – Population ecology of Jefferson Salamanders.
2003-2005	Leroy Walston – Interspecific interactions in a larval amphibian community.
2002-2004	C. Drew Foster – Native snake performance when fed exotic prey.
2001-2007	J. Brian Towey – Amphibian communities in ponds with predator populations.
1999-2003	Beth Flitz – Nest site selection of box turtles in disturbed habitats.

**Student Mentoring – Undergraduate/Post-baccalaureate** (last 15 years; \* = Dept. Honors)

2019-present	Daniel Fryar
2017-2018	Taylor Black*, Ryan Swindell
2014-2015	Kylee Gochanour, Jacqueline Herman, Margaret Thomas, Joseph Zigler.
2013-2014	Elizabeth Bauman, Murphy Walters, Joseph Zigler
2012-2013	Elizabeth Bauman, Sarah Baxter, Anndria Cluster, Iwo Gross*, Joseph Zigler
2011-2012	Anndria Cluster, David Delaney, Danelle Grochocinski, Iwo Gross*
2010-2011	Angelica Bradley, Iwo Gross*, Jennifer Hedin, Katherine Weber
2009-2010	Kyle Baumgartner, Jennifer Hedin, Nicholas Kiriazis, Jaymie Voorhees
2008-2009	Kyle Baumgartner, Nicholas Kiriazis, MaryJo Kocher
2007-2008	Brennan Caputo, Kimberly Harper
2006-2007	Samantha Adams, Nicholas Kiriazis

**University & Community Involvement** (last 15 years)

2019-present	Policy Committee, Stephen F. Austin State Univ.
2017	Search Committee, Dept. of History Chair, Stephen F. Austin State Univ.
2017	Search Committee, Graduate School Dean, Stephen F. Austin State Univ.
2016-2019	Graduate Council, Stephen F. Austin State University.
2013-present	Editor, <u>Herpetologica</u> (quarterly scientific journal of The Herpetologists' League)
2012-2015	Graduate Studies Committee.
2009-2012	Associate Editor, <u>Herpetologica</u> (behavioral and conservation ecology).
2009-2012	Joint societies committee for the Meritorious Teaching Award in Herpetology.
2006-2011	Advisory Board, Midwest Partners in Amphibian & Reptile Conservation.

**Reviewer – Journals**

Behavioral Ecology; Biological Conservation; Chelonian Conservation Biology; Copeia; Current Zoology; Forest Ecology & Management; Herpetologica; Journal of Herpetology.

– **Book** : Linzey, D. 2001. Vertebrate Biology. McGraw-Hill, Inc. New York.

**Professional Memberships**

American Institute of Biological Sciences

Herpetologists' League

International Society for Behavioral Ecology

Society for the Study of Amphibians & Reptiles

**Professional Development**

2017 Council of Colleges of Arts & Sciences, Seminars for Department Chairs, San Diego, CA.

**PUBLICATIONS – BOOK/BOOK CHAPTERS**

2016 **Mullin, SJ**. Experimental applications. Pp. 317-336 in *Reptile Ecology & Conservation: A Handbook of Techniques* (ed. CK Dodd, Jr.). Oxford University Press, UK

2009 **Mullin, SJ** & RA Seigel (eds.). *Snakes: Ecology & Conservation Biology*. Cornell University Press, USA.

2009 **Mullin, SJ** & RA Seigel. Opening the doors to snake conservation. Pp. 1-4 in *Snakes: Ecology & Conservation Biology* (ed. SJ Mullin and RA Seigel). Cornell University Press, USA.

2009 Seigel, RA & **SJ Mullin**. Snake conservation, present and future. Pp. 281-290 in *Snakes: Ecology & Conservation Biology* (ed. SJ Mullin and RA Seigel). Cornell University Press, USA.

**— PEER-REVIEWED ARTICLES** (in all remaining sections, \* = student authors)

2020 **Mullin, SJ**. Geographic distribution: *Anolis vittigerus* (Southern tree anole). *Herpetol. Rev.* 51:538.

2019 Durso, AM, & **SJ Mullin**. Natural history notes: *Heterodon nasicus* (movement). *Herpetol. Rev.* 50:393-394.

2018 DeGregorio, BA, G Blouin-Demers, GLF Carfagno, JW Gibbons, **SJ Mullin**, JH Sperry, JD Willson, K Wray & PJ Weatherhead. Geographic variation in body size and sexual size dimorphism of North American ratsnakes (*Pantherophis* spp. sensu lato). *Can. J. Zool.* 96:1196-1202; doi:10.1139/cjz-2018-0005

2018 Lecq, S, A Loisel, **SJ Mullin** & X Bonnet. Manipulating hedgerow quality: Embankment size influences animal biodiversity in a peri-urban context. *Urban Forest. Urban Greening* 35:1-7.

2018\* Claunch, NM, R Denton, M Holding, E Taylor & **SJ Mullin**. Natural history notes: *Scaphiopus couchii* (predation). *Herpetol. Rev.* 49:312-313.

2017 Bois, J & **SJ Mullin**. Dinosaur nest ecology and predation during the Late Cretaceous: Was there a relationship between upper Cretaceous extinction and nesting behavior? *Historical Biol.* 29:976-986; doi:10.1080/08912963.2016.1277423

2017\* Durso, AM & **SJ Mullin**. Ontogenetic shifts in the diet of Plains Hog-nosed Snakes (*Heterodon nasicus*) revealed by stable isotope analysis. *Zoology* 120:83-91.

**PUBLICATIONS, cont'd.**

- 2017 Lecq, S, A Loisel, F Brischoux, **SJ Mullin** & X Bonnet. Importance of ground refuges for the biodiversity in agricultural hedgerows. *Ecol. Indicators* 72:615-626.
- 2016 Bonnet, X, S Lecq, JL Lassay, JM Ballouard, C Barbraud, J Souchet, **SJ Mullin** & G Provost. Forest management bolsters native snake populations in urban parks. *Biol. Conserv.* 193:1-8; doi:10.1016/j.biocon.2015.11.001
- 2015\* Ballouard, J-M, **SJ Mullin**, *et al.* Factors influencing school children's responses to a questionnaire in wildlife conservation education. *Internat. J. Sci. Educat.* 37:469-483; doi: 10.1080/09500693.2014.993000
- 2014 Sever, DM, **SJ Mullin** & R Powell. Herpetological research at primarily undergraduate universities. *Herpetol. Rev.* 45:409-413.
- 2014\* Durso, AM & **SJ Mullin**. Intrinsic and extrinsic factors influence expression of defensive behavior in Plains Hog-nosed Snakes (*Heterodon nasicus*). *Ethology* 120:140-148. doi: 10.1111/eth.12188
- 2014\* Neuman-Lee, LA, KF Gaines, KA Baumgartner, JM Voorhees, JM Novak & **SJ Mullin**. Assessing holistic effects of atrazine ingestion on gravid Northern Watersnakes (*Nerodia sipedon*) and their offspring. *Environ. Toxicol.* 29:1072-1082. doi: 10.1002/tox.21837
- 2013\* Neuman-Lee, LA, AM Durso, NM Kiriazis, MJ Olds & **SJ Mullin**. Differential habitat use by Common Watersnakes (*Nerodia sipedon*). *IRCF Reptil. Amphib.* 20:166-171.
- 2009\* **Mullin, SJ** & S Klueh. Demographics of a geographically-isolated population of threatened salamander (Caudata: Ambystomatidae) in central Illinois. *Herpetol. Conserv. Biol.* 4:161-169.
- 2009 **Mullin, SJ**. Natural history notes: *Rhinocheilus lecontei tessellatus* (longevity). *Herpetol. Rev.* 40:102-103.
- 2009\* Foster, CD, S Klueh & **SJ Mullin**. Thermoregulation of male *Elaphe spiloides* in an agriculturally-fragmented forest in Illinois. *Trans. Illinois State Acad. Sci.* 102:65-70.
- 2008\* Foster, CD & **SJ Mullin**. Speed and endurance of *Thamnophis hammondi* are not affected by consuming the toxic frog *Xenopus laevis*. *Southwest. Nat.* 53:370-373.
- 2008\* Walston, LJ & **SJ Mullin**. Variation in surrounding forest habitat influences the initial orientation of juvenile amphibians emigrating from breeding ponds. *Can. J. Zool.* 86:141-146.
- 2007\* Foster, CD & **SJ Mullin**. Updated and new amphibian and reptile records from Clark County, Illinois. *Herpetol. Rev.* 38:238-239.
- 2007 Rines, RH, R Christ & **SJ Mullin**. Natural history notes: *Bufo bufo* (depth record). *Herpetol. Rev.* 38:179.
- 2007\* Walston, LJ & **SJ Mullin**. Responses of a pond-breeding amphibian community to the experimental removal of predatory fish. *Amer. Midl. Nat.* 157:63-73.
- 2007\* Walston, LJ & **SJ Mullin**. Population responses of wood frog (*Rana sylvatica*) tadpoles to overwintered bullfrog (*Rana catesbeiana*) tadpoles. *J. Herpetol.* 41:24-31.
- 2006\* Flitz, B & **SJ Mullin**. Nest-site selection in the eastern box turtle, *Terrapene carolina carolina*, in Illinois. *Chelonian Conservat. Biol.* 5:309-312.
- 2006\* Foster, CD, S Klueh & **SJ Mullin**. Natural history notes: *Elaphe spiloides* (habitat use). *Herpetol. Rev.* 37:478.
- 2005\* Florey, J & **SJ Mullin**. A survey of anuran breeding activity in Illinois, 1986-1989. *Trans. Illinois State Acad. Sci.* 98:39-47.

**PUBLICATIONS, cont'd.**

- 2005\* Walston, LJ & **SJ Mullin**. Evaluation of a new method for measuring salamanders. *Herpetol. Rev.* 36:290-292.
- 2004\* Forsythe, P, B Flitz & **SJ Mullin**. Radio telemetry and post-emergent habitat selection of neonate box turtles (Emydidae: *Terrapene carolina*) in central Illinois. *Herpetol. Rev.* 35:333-335.
- 2004\* **Mullin, SJ**, JB Towey & RA Szafoni. Using Rotenone to enhance native amphibian breeding habitat in ponds (Illinois). *Ecol. Restorat.* 22:305-306.
- 2004\* **Mullin, SJ**, H Imbert, JM Fish, EL Ervin & RN Fisher. Snake (Colubridae: *Thamnophis*) predatory responses to chemical cues from native and introduced prey species. *Southwest. Nat.* 49:449-456.
- 2003 Ervin, EL, **SJ Mullin**, ML Warburton & RN Fisher. Natural history notes: *Thamnophis hammondi* (prey). *Herpetol. Rev.* 34:74-75.
- 2002 **Mullin, SJ** & RJ Cooper. Barking up the wrong tree: Climbing performance of rat snakes and its implications for depredation of avian nests. *Can. J. Zool.* 80:591-595.
- 2000 **Mullin, SJ** & RJ Cooper. The foraging ecology of the gray rat snake (*Elaphe obsoleta spiloides*). II. Influence of variable habitat structural complexity on snakes foraging for arboreal avian prey. *Amphib. Reptil.* 21:211-222.
- 2000 **Mullin, SJ**, WHN Gutzke, GD Zenitsky & RJ Cooper. Home ranges of rat snakes (Colubridae: *Elaphe*) in different habitats. *Herpetol. Rev.* 31:20-22.
- 1999 **Mullin, SJ**. Caudal distraction by rat snakes (Colubridae, *Elaphe*): A novel behavior used when capturing mammalian prey. *Gr. Basin Nat.* 59:361-367.
- 1999 **Mullin, SJ**. Natural history notes: *Elaphe obsoleta spiloides* (reproduction). *Herpetol. Rev.* 30:100-101.
- 1999 **Mullin, SJ** & WHN Gutzke. The foraging ecology of the gray rat snake (*Elaphe obsoleta spiloides*). I. Influence of variable habitat structural complexity on snakes foraging for terrestrial mammalian prey. *Herpetologica* 55:18-28.
- 1999 Cooper, RJ, RR Wilson, GD Zenitsky, **SJ Mullin**, JA DeCecco, MR Marshall, DJ Wolf & L.Y. Pomara. Does nonrandom nest placement imply nonrandom nest predation? A reply. *Condor* 101:920-923.
- 1998 **Mullin, SJ**. Inter- and intra-specific interaction rates of three species of lemurs (Subfamily Lemurinae) in an enclosure at the Memphis Zoo and Aquarium. *J. Tennessee Acad. Sci.* 73:77-81.
- 1998 **Mullin, SJ** & RJ Cooper. The foraging ecology of the snake *Elaphe obsoleta spiloides*: Visual stimuli facilitate location of arboreal prey. *Amer. Midl. Nat.* 140:397-401.
- 1998 **Mullin, SJ**, RJ Cooper & WHN Gutzke. The foraging ecology of the gray rat snake (*Elaphe obsoleta spiloides*). III. Searching for different prey types in structurally varied habitats. *Can. J. Zool.* 76:548-555.
- 1998 **Mullin, SJ** & WHN Gutzke. Responses to prey odors in juveniles of the snake *Elaphe obsoleta spiloides*, a predatory generalist. *Snake* 29..
- 1997\* **Mullin, SJ** & JT Eubanks. Geographic distribution: *Nerodia sipedon pleuralis* (Midland water snake). *Herpetol. Rev.* 28:159.
- 1997 **Mullin, SJ** & HR Mushinsky. Use of experimental enclosures to examine foraging success in water snakes: A case study. *J. Herpetol.* 31:565-569.
- 1996 **Mullin, SJ**. Adaptations facilitating facultative oophagy in the gray rat snake, *Elaphe obsoleta spiloides*. *Amphib. Reptil.* 17:387-394.

**PUBLICATIONS, cont'd.**

- 1995 **Mullin, SJ.** Estuarine fish populations among red mangrove prop roots of small overwash islands. *Wetlands* 15:324-329.
- 1995 **Mullin, SJ & HR Mushinsky.** Foraging ecology of the mangrove salt marsh snake, *Nerodia clarkii compressicauda*: Effects of vegetational density. *Amphib. Reptil.* 16:167-175.
- 1994 **Mullin, SJ.** Life history characteristics of *Nerodia clarkii compressicauda* at Placido Bayou, Florida. *J. Herpetol.* 28:371-374.

**– ABSTRACTS/INTERNET/NON-PEER REVIEWED**

- 2019 **Mullin, SJ.** The 75<sup>th</sup> volume of *Herpetologica*: A benchmark and a transition. *Herpetologica* 75:1-3.
- 2018 Schalk, CM, MA Kwiatkowski, D Saenz & **SJ Mullin.** Institutional profile: Herpetology at Stephen F. Austin State University. *Herpetol. Rev.* 49:779-781.
- 2009 **Mullin, SJ.** Mistaken identity. *In: Courting the Wild: Love Affairs with Reptiles and Amphibians* (ed. JC Mitchell & JK Reaser). Pawcatuck, Conn.: Hiraeth. p. 129-133.
- 2008 **Mullin, SJ.** Restoring a native amphibian community. *Outdoor Illinois* 16:18-20.
- 2006\* Foster, CD & **SJ Mullin.** Extirpation of a relict timber rattlesnake (*Crotalus horridus*) population in Clark County, Illinois. *Bull. Chicago Herpetol. Soc.* 41:147-148.
- 2006 **Mullin, SJ.** The international scope of evolution. *EIU International Programs Newsletter* 3:3.
- 2005 **Mullin, SJ.** Patterns of solid waste disposal in Coles County: results from a resident survey. Coles County Regional Planning & Development Commission, Charleston, Illinois. 28 pp.
- 2004 **Mullin, SJ.** *In memoriam*: William H.N. Gutzke, 1950-2004. *Tenn. Herpetol. Soc. Newsletter* 2:8.
- 2004 Scott, EC, ... **SJ Mullin et al.** The morphology of Steve. *Annals of Improbable Research* 10:24-29.
- 2001 **Mullin, SJ.** Miller: Essays on amphibians. *Ecology* 82:602-603.
- 1997 **Mullin, SJ.** 1997. Responses to prey odors in juveniles of the snake *Elaphe obsoleta spiloides*, a predatory generalist. *J. Tenn. Acad. Sci.* 72:81-82.

**PRESENTATIONS – INVITED LECTURES**

- 2014 Mullin, SJ. Snakes as model organisms for understanding ecological and conservation phenomena – Tales from the Midwest. Dept. of Biology, Stephen F. Austin State Univ.
- 2014 Mullin, SJ. No place like home anymore: Colubrid snakes coping in modified habitats in the Midwest. Dept. of Biological Sciences, University of Wisconsin at Green Bay.
- 2014 Mullin, SJ. Snakes as model organisms for understanding ecological and conservation phenomena – Tales from the Midwest. Dept. of Biology, Tennessee Tech University.
- 2013 Mullin, SJ. No place like home anymore: Colubrids coping in remnant and modified habitats in the Midwest. Dept. of Biological Sciences, Southeastern Louisiana University.
- 2011 Mullin, SJ. Too many alien species: Has a southwestern gartersnake reached the Twilight Zone? Department of Biology, Truman State University.
- 2008 Mullin, SJ. The other transformers – Why the restoration of an amphibian community is far from robotic. Warnell School of Forest Resources, University of Georgia.

**PRESENTATIONS — PAPERS**

- 2016\* Manka, SE & SJ Mullin. Reducing snake mortality during migration: The utility of the hose-bridge. Joint Meetings of Ichthyologists & Herpetologists, New Orleans, LA.
- 2014\* Thomas, MA & SJ Mullin. Quantifying dietary overlap in a community of invertebrate-eating snakes. Joint Meetings of Ichthyologists & Herpetologists, Chattanooga, TN.
- 2013\* Lennon, CP & SJ Mullin. Trophic niche breadth in a widely-foraging snake (Colubridae: *Coluber*). Joint Meetings of Ichthyologists & Herpetologists, Albuquerque, NM.
- 2012\* Gross, IP, AM Durso, CP Lennon & SJ Mullin. Why did the Brownsnake cross the road? Understanding how snake populations are impacted by vehicle access within a state park. Midwest Partners in Amphibian & Reptile Conservation, Pioneer, OH.
- 2012\* Durso, AM & SJ Mullin. Dietary ecology of a sand prairie snake community. 7<sup>th</sup> World Congress of Herpetology, Vancouver, BC, CANADA.
- 2012\* Gross, IP, AM Durso, CP Lennon & SJ Mullin. Why did the Brownsnake cross the road? Understanding how snake populations are impacted by vehicle access within a state park. 7<sup>th</sup> World Congress of Herpetology, Vancouver, BC, CANADA.
- 2011\* Durso, AM & SJ Mullin. Interactions of sex, age and behavior in death-feigning snakes (*Heterodon*). Joint Meetings of Ichthyologists & Herpetologists, Minneapolis, MN.
- 2011\* Neuman-Lee, LA, KF Gaines, K Baumgartner, J Voorhees & SJ Mullin. Using multiple endpoints to determine the effects of atrazine ingestion on gravid female watersnakes and their offspring. Society for Integrative & Comparative Biology, Salt Lake City, UT.
- 2010\* Neuman-Lee, LA, KF Gaines & SJ Mullin. Estradiol levels in watersnakes (Colubridae: *Nerodia*) during gestation as a function of exposure to ingested atrazine. Joint Meetings of Ichthyologists & Herpetologists, Providence, RI.
- 2010\* Hale, KB & SJ Mullin. Predatory responses as a function of native and introduced prey types in neonate gartersnakes (Colubridae: *Thamnophis*). Joint Meetings of Ichthyologists & Herpetologists, Providence, RI.
- 2010\* Neuman-Lee, LA, SJ Mullin & KF Gaines. Atrazine during pregnancy: Its impacts on viviparous reptile mothers and young. Midwest Ecology & Evolution Conference, Ames, IA.
- 2008\* Fornell, AM & SJ Mullin. Foraging site selection in Prairie Kingsnakes: An experimental examination. Kansas Herpetological Society, Wichita, KS.
- 2008\* Mullin, SJ, T Buhnerkempe, SJ Adams & T.L. Esker. Build it and will they come? Amphibian colonization of newly-constructed ponds along a forest ecotone. Midwest Partners for Amphibian & Reptile Conservation, Blue Grass, IA.
- 2008\* Fornell, AM & SJ Mullin. Foraging site selection in Prairie Kingsnakes: An experimental examination, Joint Meetings of Ichthyologists & Herpetologists, Montréal, Qbc, CANADA.
- 2007\* Gross, LM & SJ Mullin. A pond-breeding amphibian community after fish removal: A six-year study. Midwest Regional meeting of The Wildlife Society, Madison, WI.
- 2007\* Gross, LM & SJ Mullin. Compositional changes in a pond-breeding amphibian community after fish removal: The saga continues. Midwest Partners for Amphibian & Reptile Conservation, Chesterton, IN.
- 2007\* Gross, LM and SJ Mullin. Compositional changes in a pond-breeding amphibian community after fish removal: The saga continues. Joint Meetings of Ichthyologists & Herpetologists, St. Louis, MO.



**PRESENTATIONS, cont'd.**

- 2007\* Olds, MJ & SJ Mullin. Habitat use and selection of hibernation sites in Northern watersnakes (*Nerodia sipedon*) in east-central Illinois. Joint Meetings of Ichthyologists & Herpetologists, St. Louis, MO.
- 2007 Seigel, RA & SJ Mullin. The future of snake conservation. Indigo Snake Conservation Summit: Developing an Approach to Conservation Modeling. Newton, GA.
- 2006 Rines, RH, R Christ, G Marengi, RD Rines, JC Rines, D Marshall, E Ercolino, J Hayes-Rines & SJ Mullin. No monster: Sighting of an anuran (*Bufo* sp.) in the deep water of Loch Ness. Joint Meetings of Ichthyologists & Herpetologists, New Orleans, LA.
- 2005\* Mullin, SJ, SJ Dunn & RN Fisher. Attacking the invaders: How a generalist snake forages successfully for three introduced prey species. Joint Meetings of Ichthyologists & Herpetologists, Tampa, FL.
- 2004\* Flitz, B & SJ Mullin. Daily movement in the Eastern box turtle, *Terrapene carolina carolina*, in a population in central Illinois. Joint Meetings of Ichthyologists & Herpetologists, Norman, OK.
- 2003 Mullin, SJ. Community-based ecotourism as a mechanism for sustaining environmental quality in southeastern Ecuador. Midwest Association of Latin American Studies, Charleston, IL.
- 2003\* Mullin, SJ, JM Fish, EL Ervin & RN Fisher. Chemosensory cues from exotic and native prey species: How does a native natricine snake respond? Joint Meetings of Ichthyologists & Herpetologists, Manaus, v.
- 2003\* Towey, JB & SJ Mullin. Influence of presence and removal of introduced fish on pond breeding amphibians in central Illinois. Illinois State Academy of Sciences, Springfield, IL.
- 2002 Mullin, SJ & RJ Cooper. Climbing performance and behavior in an avian nest predator (Colubridae: *Elaphe*). Animal Behavior Society, Bloomington, IN.
- 2002\* Mullin, SJ, H Imbert, EL Ervin & RN Fisher. Predatory responses of a native semi-aquatic snake to the introduced anuran *Xenopus laevis*. Joint Meetings of Ichthyologists & Herpetologists, Kansas City, MO.
- 2001 Mullin, SJ. Curricula in vertebrate natural history: Linking conservation efforts between the secondary-level classroom and education objectives at zoological parks. Illinois Association of Teacher Educators, Charleston, IL.
- 2001 Mullin, SJ & RJ Cooper. Substrate roughness as a limiting factor in rat snake (*Elaphe obsoleta*) climbing performance. Joint Meetings of Ichthyologists & Herpetologists, Indianapolis, IN.
- 2001 Cooper, RJ, JA DeCecco, SJ Mullin & RR Wilson. Nest site selection studies and nest predation: What are we measuring and why? American Ornithologist's Union.
- 1998 Mullin, SJ, WHN Gutzke & RJ Cooper. The foraging ecology of the snake (*Elaphe obsoleta spiloides*) searching for different prey types in structurally variable habitat. Ecological Society of America, Baltimore, MD.
- 1997 Mullin, SJ, The effects of habitat structural complexity on predatory success in the snake *Elaphe obsoleta spiloides* foraging for arboreal prey. 3<sup>rd</sup> World Congress of Herpetology, Prague, CZECH REPUBLIC.
- 1997 Mullin, SJ, Responses to prey odors in subadult gray rat snakes (*Elaphe obsoleta spiloides*). Tennessee Academy of Sciences, Memphis, TN.

**PRESENTATIONS, cont'd.**

- 1996 Mullin, SJ. Foraging success in the snake *Elaphe obsoleta spiloides* as influenced by variable habitat structural complexity. Joint Meetings of Ichthyologists & Herpetologists, New Orleans, LA.
- 1993 Mullin, SJ & HR Mushinsky. Foraging ecology of the mangrove salt marsh snake, *Nerodia clarkii compressicauda* (Baird and Girard): Effects of habitat structural complexity. Joint Meetings of Ichthyologists & Herpetologists, Austin, TX.

**— POSTERS**

- 2019\* Wasley, MJ & SJ Mullin. Piles of *Osteopilus*: Competition at the Larval Stage Backs Native Anurans into a Corner. Joint Meetings of Ichthyologists & Herpetologists, Snowbird, UT.
- 2018\* Marcou, ZJ, AE McElroy, JB Pierce, DC Rudolph & SJ Mullin. Detecting turtles (Emydidae: *Terrapene*) using wildlife cameras. Joint Meetings of Ichthyologists & Herpetologists, Rochester, NY.
- 2017\* Marcou, ZJ, JB Pierce, DC Rudolph & SJ Mullin. Detection and activity patterns of snakes in large parcels of contiguous habitat. Joint Meetings of Ichthyologists & Herpetologists, Austin, TX.
- 2015\* Manka, SE & SJ Mullin. Reducing snake mortality during migration: The utility of the hose-bridge. Society for the Study of Amphibians & Reptiles, Lawrence, KS.
- 2014 Mullin, SJ, LM Diana & LJ Walston. Patient tiger, hidden results? A decade-long salamander (*Ambystoma tigrinum*) repatriation effort in managed wetlands. Joint Meetings of Ichthyologists & Herpetologists, Chattanooga, TN.
- 2014\* Carter, CM & SJ Mullin. Trophic interactions in a semiaquatic snake community: Insights into the structure of a floodplain food web. Joint Meetings of Ichthyologists & Herpetologists, Chattanooga, TN.
- 2014\* Zigler, JA & SJ Mullin. Relationships between body size and migratory movements of Midland Brownsnakes (Colubridae: *Storeria*) within an activity season. Joint Meetings of Ichthyologists & Herpetologists, Chattanooga, TN.
- 2013\* Gross, IP, CP Lennon, MA Thomas, AM Durso & SJ Mullin. Patterns of snake (Colubridae: *Storeria*) movement and mortality during seasonal migrations between habitats. Joint Meetings of Ichthyologists & Herpetologists, Albuquerque, NM.
- 2013\* Thomas, MA & SJ Mullin. Measuring niche overlap in a community of invertebrate eating snakes. Joint Meetings of Ichthyologists & Herpetologists, Albuquerque, NM.
- 2012\* Delaney, DM & SJ Mullin. Life-history characteristics of a population of Ring-necked Snakes (Colubridae: *Diadophis*) occupying anthropogenic habitat. Midwest Partners in Amphibian & Reptile Conservation, Pioneer, OH.
- 2012\* Lennon, CP & SJ Mullin. Trophic niche breadth in a widely-foraging snake (Colubridae: *Coluber*). Midwest Partners in Amphibian & Reptile Conservation, Pioneer, OH.
- 2012\* Delaney, DM & SJ Mullin. Life-history characteristics of a population of Ring-necked Snakes (Colubridae: *Diadophis*) occupying anthropogenic habitat. 7<sup>th</sup> World Congress of Herpetology, Vancouver, BC, CANADA.
- 2012\* Lennon, CP & SJ Mullin. Trophic niche breadth in a widely-foraging snake (Colubridae: *Coluber*). 7<sup>th</sup> World Congress of Herpetology, Vancouver, BC, CANADA.

**PRESENTATIONS, cont'd.**

- 2011\* Gross, IP, LA Neuman-Lee, AM Durso & SJ Mullin. Assessing the relationship between parasite loads and limb deformities in Small-mouthed Salamanders (Caudata: Ambystomatidae). Joint Meetings of Ichthyologists & Herpetologists, Minneapolis, MN.
- 2010\* Durso, AM & SJ Mullin. Interactions of diet and behavior in death-feigning snakes (*Heterodon*). Joint Meetings of Ichthyologists & Herpetologists, Providence, RI.
- 2010\* Baumgartner, KA, LA Neuman-Lee & SJ Mullin. The effect of atrazine on scale-row symmetry during the development of neonate watersnakes (Colubridae: *Nerodia*). Joint Meetings of Ichthyologists & Herpetologists, Providence, RI.
- 2010\* Voorhees, JR, LA Neuman-Lee, SJ Mullin & KF Gaines. Lipid concentrations in neonate watersnakes (Colubridae: *Nerodia*) as a function of *in utero* exposure to atrazine. Joint Meetings of Ichthyologists & Herpetologists, Providence, RI.
- 2010\* Baumgartner, KA, SJ Mullin & LA Neuman-Lee. Effect of atrazine during development on dorsal scale symmetry in Northern Watersnake (*Nerodia sipedon*) neonates. Midwest Ecology & Evolution Conference, Ames, IA.
- 2010\* Durso, AM & SJ Mullin. Interactions between diet and behavior in the death-feigning snakes *Heterodon nasicus* and *H. platirhinos*. Midwest Ecology & Evolution Conference, Ames, IA.
- 2010\* Hale, KB & SJ Mullin. Prey Preference as a Function of Native versus Introduced Prey Types in Neonate Gartersnakes (Colubridae: *Thamnophis*). Midwest Ecology & Evolution Conference, Ames, IA.
- 2009\* Kiriazis, NM, LA Neuman-Lee & SJ Mullin. Population structure and morphometrics of Northern Watersnakes (*Nerodia sipedon*) in an anthropogenic habitat. Joint Meetings of Ichthyologists & Herpetologists, Portland, OR.
- 2009\* Kiriazis, NM, LA Neuman-Lee & SJ Mullin. Population structure and morphometrics of Northern Watersnakes (*Nerodia sipedon*) in an anthropogenic habitat. Snake Ecology Group V, Donnelly, ID.
- 2008\* Walston, LJ & SJ Mullin. Variation in amount of forest habitat influences orientation of juvenile amphibians emigrating from breeding ponds. Joint Meetings of Ichthyologists & Herpetologists, Montréal, Qbc, CANADA.
- 2007\* Fornell, AM & SJ Mullin. Foraging site selection in prairie kingsnakes: An experimental examination. Midwest Regional meeting of The Wildlife Society; Madison, WI.
- 2006\* Olds, MJ & SJ Mullin. A levee runs through it: Habitat use by northern watersnakes (*N. sipedon*) in two bodies of water. Midwest Regional meeting of The Wildlife Society; Omaha, NE.
- 2006\* Gross, LM & SJ Mullin. Atrazine in agricultural runoff and its impacts on two anuran species in Central Illinois. Midwest Regional meeting of The Wildlife Society; Omaha, NE.
- 2006\* Gross, LM & SJ Mullin. An amphibian community after fish removal: A tale of four ponds. Midwest Partners for Amphibian & Reptile Conservation, Carbondale, IL.
- 2006\* Olds, MJ & SJ Mullin. The snake community inhabiting a levee system in central Illinois. Midwest Partners for Amphibian & Reptile Conservation, Carbondale, IL.
- 2006\* Walston, LJ & SJ Mullin. Population responses of wood frog (*Rana sylvatica*) tadpoles to overwintered bullfrog (*Rana catesbeiana*) tadpoles. Joint Meetings of Ichthyologists & Herpetologists, New Orleans, LA.

**PRESENTATIONS, cont'd.**

- 2005\* Klueh, S & SJ Mullin. Population ecology of the Jefferson salamander, *Ambystoma jeffersonianum*, in Illinois. Joint Meetings of Ichthyologists & Herpetologists, Tampa, FL.
- 2005\* Walston, LJ & SJ Mullin. Resilience of a pond-breeding amphibian community following the mitigation of introduced fish. Joint Meetings of Ichthyologists & Herpetologists, Tampa, FL.
- 2003 Mullin, SJ & CA Phillips. Snake Ecology 2004: Another meeting of the minds. Joint Meetings of Ichthyologists & Herpetologists, Manaus, Brazil.
- 2000 Mullin, SJ, J Bois & RJ Cooper. Dinosaur nest ecology and predation during the late Cretaceous: Is there a relationship between nesting behavior and upper Cretaceous extinction? Animal Behavior Society, Atlanta, GA.
- 1999 Mullin, SJ. Side-dominance of constriction is absent in gray rat snakes (*Elaphe obsoleta spiloides*). Animal Behavior Society, Bucknell, PA.
- 1997 Mullin, SJ. Responses to prey odors in juveniles of the snake *Elaphe obsoleta spiloides*, a predatory generalist. 3<sup>rd</sup> World Congress of Herpetology, Prague, Czech Republic.
- 1996 Mullin, SJ. Caudal distraction: Video taped footage of a novel foraging behavior in the semi-arboreal snake *Elaphe obsoleta spiloides*. Joint Meetings of Ichthyologists & Herpetologists, New Orleans, LA.
- 1995 Mullin, SJ, RJ Cooper & WNH Gutzke. Considerations for modeling the optimal foraging behavior of the gray rat snake (*Elaphe obsoleta spiloides*) in two distinct microhabitats. International Society for Ecological Modeling, American Institute of Biological Sciences, San Diego, CA.
- 1994 Mullin, SJ. Adaptations facilitating facultative oophagy in the gray rat snake, *Elaphe obsoleta spiloides*. Herpetologists' League and Society for the Study of Amphibians & Reptiles, Athens, GA.
- 1993 Mullin, SJ. Estuarine fish populations among prop roots of the red mangrove *Rhizophora mangle* L. Joint Meetings of Ichthyologists & Herpetologists, Austin, TX.
- 1992 Mullin, SJ. Life history characteristics of the mangrove salt marsh snake, *Nerodia clarkii compressicauda*. Society for the Study of Amphibians & Reptiles, El Paso, TX.

**NOTE:** In addition to the research output listed above, various students were sole authors on **12** funded grant applications, and **9** presentations at scientific conferences (**6** of which have won awards), and **17** peer-reviewed publications during their respective associations with my lab group.