

## STEPHEN J. MULLIN

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### 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

- 2023-present **Professor**, Dept. of Biological Sciences, Arkansas State University: Comparative Vertebrate Anatomy; Conservation Biology; Herpetology.
- 2020-2023 **Professor & Chair**, Dept. of Biological Sciences, Arkansas State University.
- 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.
- 1998 **Adjunct Professor of Liberal Studies**, Memphis College of Art.
- 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; 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; \$27,900<sup>00</sup>.  
 2016-2017 Acquisition of transmission and scanning electron microscopes. SFA Office of Research & Sponsored Programs; \$160,000<sup>00</sup> (co-PI with J. Taylor).  
 2016 Delineating metrics of diversity for a snake community in a forest ecosystem. Southern Research Station, U.S. Forest Service; \$10,000<sup>00</sup> (co-PI with D. Saenz).  
 2014-2015 Manipulative moms: Examining the relationships between environmental variables and offspring traits in a live-bearing snake species. EIU Council on Faculty Research; \$2,849<sup>00</sup>.  
 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; \$1998<sup>00</sup>.  
 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; \$9974<sup>00</sup>.  
 2012-13 Turning over a new leaf: Quantifying niche breadth in leaf-litter snakes using stable isotope analysis. EIU Council on Faculty Research; \$5255<sup>00</sup>.  
 2011-12 Conservation strategies for migrating populations of leaf-litter snakes at an Illinois state park. Wildlife Preservation Fund, Illinois Department of Natural Resources; \$1933<sup>00</sup>.  
 2010-11 The community ecology associated with Hog-nosed Snakes. Wildlife Preservation Fund, Illinois Department of Natural Resources; \$1960<sup>00</sup>.  
 2009-10 The interaction of diet and behavior in toad-eating snakes that feigns death (Colubridae: *Heterodon*). EIU Council on Faculty Research; \$3212<sup>00</sup>.  
 2008-09 Predatory response as a function of prey type in newborn snakes (Colubridae: *Thamnophis*). EIU Council on Faculty Research; \$4912<sup>00</sup>.

**Notes:** In addition to the awards listed above, I have received 12 awards from internal sources to fund curricular or student advancement. Grants that funded research projects prior to 2008 sum to >\$200,000.

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)

2023- present	Taylor Thomisee – Biodiversity assessment in agricultural “islands.”
2022-present	Norman Hunter (co-advised) – Energy allocation in oviparous snakes.
2021-present	Mackenzie Hanna – Behavioral ecology of Lesser Sirens.
2020-2022	Jessica Yates – Population assessment of Brazos River Watersnakes.
2018-2020	McKenzie Wasley – Interactions between native and invasive frog larvae.
2017-2020	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 Mudsnakes.
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 (co-advised) – 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.

I have served on the thesis or dissertation committees of an additional 18 graduate students.

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

2023	Mahita Bodasakurti, Alexa Dillon
2021-2022	Breanne Allen, Scout Weatherford
2019-2020	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

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

2022-present	Vice-President, Herpetologists’ League.
2021-present	Darwin Day Organizing Committee, Arkansas State Univ.
2021-2023	University Academic Integrity Committee, Arkansas State Univ.
2021-2023	Academic Calendar Committee, Arkansas State Univ.
2020-2021	Executive Council, Herpetologists’ League.
2019-2020	Policy Committee, Stephen F. Austin State Univ.

**PROFESSIONAL ACTIVITIES, cont'd.**

- 2017 Search Committee, Dept. of History Chair, SFA  
 2017 Search Committee, Graduate School Dean, SFA  
 2016-2019 Graduate Council, SFA  
 2013-2020 Editor, *Herpetologica* (quarterly journal of The Herpetologists' League).  
 2012-2015 Graduate Studies Committee, EIU Dept. of Biological Sciences.  
 2009-2012 Associate Editor, *Herpetologica* (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.  
 2005-2013 Publications Secretary and Webmaster, The Herpetologists' League.  
 2004-2013 Joint Herpetological Societies Education Committee.  
 2004-2015 Judicial Affairs Board.  
 2003-2020 Darwin Day Organizing Committee.  
 2003-2015 Coordinator, Departmental Honors Program.  
 2002-2015 Institutional Animal Care & Use Committee  
 2000-2015 American Institute for Biological Sciences, list moderator of EVOLEDIL  
 (internet discussion group that promotes evolution in educational curricula).

**Reviewer – Journals**

American Midland Naturalist; Behavioral Ecology; Biological Conservation; Chelonian Conservation Biology; Copeia; Current Zoology; Forest Ecology & Management; Herpetologica; Journal of Herpetology; Scientific Reports; Southeastern Naturalist; Wildlife Society Bulletin.  
 – **Book** : Linzey, D. 2001. Vertebrate Biology. McGraw-Hill, Inc. New York.

**Professional Development**

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

**Professional Memberships**

American Institute of Biological Sciences  
 Herpetologists' League  
 Society for the Study of Amphibians & Reptiles  
 Union of Concerned Scientists

**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.

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

- 2023\* Yates, JR, D McBride, SF Harding, D Rodriguez & SJ Mullin. Changes in the community composition of riverine snakes (Squamata: Serpentes) over five decades. Herpetol. Conserv. Biol. 18:326-336.  
 2023\* Field, EK, J Terry, AM Hartzheim, K Krajcir, SJ Mullin & LA Neuman-Lee. Investigating relationships among stress, reproduction, and immunity in three species of watersnake. Gen. Comp. Endocrinol. 343:114350; doi: 10.1016/j.ygcen.2023.114350

**PUBLICATIONS, cont'd.**

- 2022\* Yates, JR, SJ Mullin & MA Kwiatkowski. Natural history notes: *Thamnophis proximus* (diet). Herpetol. Rev. 53:703.
- 2022\* Durso, AM, TJ Kieran, TC Glenn & SJ Mullin. Comparison of three methods for measuring dietary composition of Plains Hog-nosed Snakes. Herpetologica 78:119-132.
- 2022\* Harding, SF, CG Becker, JR Yates, P Crump, MRJ Forstner, SJ Mullin & D Rodriguez. Comparative host-pathogen associations of Snake Fungal Disease in sympatric species of watersnakes (*Nerodia*). Sci. Rep. 12:12303; doi: 10.1038/s41598-022-16664-8
- 2021\* Yates, JR, T McKay, and SJ Mullin. Natural history notes: *Anolis carolinensis* (myiasis). Herpetol. Rev. 52:642-643.
- 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; doi: 10.1016/j.ufug.2018.08.002
- 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.
- 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.

**PUBLICATIONS, cont'd.**

- 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; doi: 10.1139/Z07-117
- 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.
- 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.

**PUBLICATIONS, cont'd.**

- 1999 Mullin, SJ. Caudal distraction by rat snakes (Colubridæ, *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.
- 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.

**PUBLICATIONS – 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.

**PUBLICATIONS, cont'd.**

- 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**

- 2022 Mullin, SJ. Emerging from the swamp: Life-history and the understanding of dynamic processes. Wildlife Society Chapter, Southern Illinois University.
- 2020 Mullin, SJ. The structure and function in communities, from the academic to the landscape level. Dept. of Biological Sciences, Arkansas State University.
- 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.
- 2006 Mullin, SJ. Ecological effects within communities: Population responses to intra- and inter-ecosystem introductions. Biology Department, University of Illinois at Springfield.
- 2004 Mullin, SJ. Rat snakes in variable environments: Do generalists 'care' about optimality? Department of Biology, Northern Illinois University.
- 2003 Mullin, SJ. A selection of epigynous flowers (Orchidaceae) from Brazilian Amazonas. Botany Club, Eastern Illinois University.
- 2003 Mullin, SJ. Ecological disturbance in local and regional settings: Boon or bane for the herpetologist? Department of Biology, University of Texas – Pan American.
- 2003 Mullin, SJ. Native-exotic species interactions in local and regional settings: Boon or bane for the herpetologist? Champaign Area Society of Herpetoculturalists.
- 2002 Mullin, SJ. A plethora of plethodontids, and other things with backbones, in an Appalachian biosphere reserve. Zoology Club, Eastern Illinois University.
- 1999 Mullin, SJ. Lessons learned from a foraging snake. Department of Life Sciences, Indiana State University.
- 1999 Mullin, SJ. Lessons learned from a foraging snake. Audubon Society of Central Arkansas.

**PRESENTATIONS, cont'd**

- 1998 Mullin, SJ. Foraging in a heterogeneous environment: Insights from a dietary generalist. Eastern Illinois University.
- 1998 Mullin, SJ. Foraging in a heterogeneous environment: Insights from a dietary generalist. Wildlife Conservation Society, New York.
- 1996 Mullin, SJ. Foraging success as effected by habitat structural complexity in the gray rat snake (*Elaphe obsoleta spiloides*). Department of Zoology, University of Tennessee.

**— PAPERS**

- 2023\* Yates, JR, SF Harding, D McBride, D Rodriguez & SJ Mullin. Impoundments be dammed: Assessing a threatened watersnake within different habitats of the Brazos River watershed, Texas. Joint Meetings of Ichthyologists & Herpetologists, Norfolk, VA.
- 2022\* Yates, JR & SJ Mullin. Sneaky snakes: Detection and occupancy of sympatric *Nerodia* in the Brazos River watershed, Texas. Joint Meetings of Ichthyologists & Herpetologists, Spokane, WA.
- 2017 Mullin, SJ. Cruisin' for a bruisin' (or worse!): Mitigating road mortalities for a migratory snake population. Biology of the Snakes, Rodeo, NM.
- 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, 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, 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.

**PRESENTATIONS, cont'd.**

- 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, 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.
- 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, BRAZIL.
- 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 (Colubridæ: *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.

**PRESENTATIONS cont'd**

- 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, Seattle, WA.
- 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.
- 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**

- 2023\* Nichols, MH, LA Neuman-Lee & SJ Mullin. Short-term Tissue Regeneration Rates in Lesser Sirens (Caudata: Sirenidae). Joint Meetings of Ichthyologists & Herpetologists, Norfolk, VA.
- 2022\* Hanna, MR & SJ Mullin. Responses of Lesser Sirens (Caudata: Sirenidae) to chemosensory cues. Joint Meetings of Ichthyologists & Herpetologists, Spokane, WA.
- 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.

**PRESENTATIONS, cont'd.**

- 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.
- 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.

**PRESENTATIONS, cont'd.**

- 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.
- 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.

**PRESENTATIONS, cont'd.**

- 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.