

Matthew Lance Niemiller

Ph.D.

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Google® Scholar: 1,800 citations; h-index: 21; i10-index: 34

ResearchGate: 1,560 citations; h-index: 19; RG Score: 31.69

EDUCATION:

- 2006–2011 UNIVERSITY OF TENNESSEE, Department of Ecology & Evolutionary Biology, Knoxville, TN 37996, USA. Doctor of Philosophy, August 2011. Title: *Evolution, speciation, and conservation of amblyopsid cavefishes*. Advisor: Benjamin M. Fitzpatrick.
- 2003–2006 MIDDLE TENNESSEE STATE UNIVERSITY, Department of Biology, Murfreesboro, TN 37132, USA. Master of Science, May 2006. Title: *Systematics of the Tennessee cave salamander complex (Gyrinophilus palleucus) in Tennessee*. Advisor: Brian T. Miller.
- 2000–2003 MIDDLE TENNESSEE STATE UNIVERSITY, Murfreesboro, TN 37132, USA. Bachelor of Science in Biology, August 2003.

PROFESSIONAL EXPERIENCE:

- 2017–Present *Assistant Professor*, Department of Biological Sciences, The University of Alabama in Huntsville, Huntsville, AL 35899, USA.
- 2016–2017 *Associate Ecologist*, Illinois Natural History Survey, University of Illinois Urbana-Champaign, Champaign, IL 61820, USA.
- 2013–Present *Research Associate*, Louisiana State Museum of Natural Science, Louisiana State University, Baton Rouge, LA 70803, USA.
- 2014–2016 *Postdoctoral Research Associate*, Illinois Natural History Survey, University of Illinois Urbana-Champaign, Champaign, IL 61820, USA. Advisor: Steven J. Taylor.
- 2013–2014 *Postdoctoral Scholar*, Department of Biology, University of Kentucky, Lexington, KY 40506, USA. Advisor: Catherine Linnen.
- 2013 *Postdoctoral Teaching Scholar*, Department of Ecology & Evolutionary Biology, Yale University, New Haven, CT 06520, USA.
- 2011–2013 *Gaylord Donnelley Environmental Postdoctoral Fellow*, Department of Ecology & Evolutionary Biology, Yale University, New Haven, CT 06520, USA. Advisor: Thomas J. Near.

FUNDING AND AWARDS:

- 2020 **54.** Faculty Research Excellence Award, UAH College of Science.
- 2019–2021 **53.** Research Grant, Alabama Department of Conservation and Natural Resources. *Section 6 Endangered Species Project: using environmental DNA to detect and monitor Alabama Cavefish and Alabama Cave Shrimp*. PI, \$29,256.

- 2019–2020 **52.** Research Grant, Tennessee Wildlife Resources Agency. *Species status assessment for the Tennessee Cave Salamander* (*Gyrinophilus palleucus*). PI, \$10,000.
- 2019–2020 **51.** Subaward, University of Illinois, SERDP, Department of Defense. *Assessing pollinator communities via environmental DNA (eDNA) metabarcoding assay*. PI, \$34,005.
- 2019 **50.** Research Grant, American University. *Morphological and molecular analysis of a new species of subterranean amphipod* (*Stygobromus cf. tenuis*) in the Washington D.C. area. PI, \$7,500.
- 2018–2019 **49.** Research Grant, Southeastern Association of Fish and Wildlife Agencies. *Assessment of geographic range, habitat, and population genetics of the green salamander* (*Aneides aeneus*) in Tennessee. PI, \$70,000.
- 2018–2020 **48.** Research Grant, Cave Conservancy Foundation. Distribution and conservation of subterranean biodiversity of Alabama. PI with Kirk S. Zigler and Annette S. Engel, \$15,000.
- 2017 **47.** Fellow, National Speleological Society.
- 2017 **46.** The University of Alabama in Huntsville, Office of Research and Economic Development, New Faculty Research Award. *Is out of sight, out of mind? The use of environmental DNA as a tool for the discovery and monitoring of rare groundwater organisms*. PI, \$10,000.
- 2017 **45.** United States Fish & Wildlife Service, U.S. Department of Interior. *New surveys and reassessment of the conservation status of the Berry Cave Salamander* (*Gyrinophilus gulolineatus*). PI, \$30,000.
- 2017 **44.** Fermi National Accelerator Laboratory, U.S. Department of Energy. *Bat monitoring at Fermi National Accelerator Laboratory: Federal FY17*. Co-PI with Steven J. Taylor, Tara C. Hohoff, and Matthew M. Stafford, \$12,500.
- 2017 **43.** Texas Parks and Wildlife Department, Wildlife Diversity Program, Conservation License Plate Grant. *Karst invertebrate bioinventories of gypsum caves containing bat hibernacula in the Texas Panhandle region*. PI with Aron D. Katz and Steven J. Taylor, \$11,075. [Awarded but a contract agreement could not be reached between TPWD and the University]
- 2016–2019 **42.** State Wildlife Grant, Tennessee Wildlife Resources Agency. *Cave biodiversity in the Interior Plateau of Tennessee*. Co-PI with Kirk Zigler, \$35,731.
- 2016 **41.** 2016 Sustainability Award, Integrated DNA Technologies, \$14,000.
- 2016 **40.** Texas Comptroller of Public Accounts. *Assessment of a species distribution model for the spot-tailed lizard* (*Holbrookia lacerata*) in Texas. PI with Mark A. Davis and Michael J. Dreslik, \$3,154.
- 2015–2016 **39.** Illinois Department of Natural Resources. *White Nose Syndrome in Illinois bat populations – FY16: monitoring of winter hibernacula*. Co-PI with Steven J. Taylor and Jill L. Deppe, \$24,362.
- 2015–2016 **38.** Cave Conservancy Foundation. *Conservation assessment of Ozark crangonyctid amphipods within the subterranean genus Stygobromus*. Co-PI with Megan L. Porter and Michael E. Slay, \$8,070.
- 2014–2016 **37.** Friends of the Capital Crescent Trail. *The use of environmental DNA to detect the presence of Stygobromus hayi, S. kenki, and S. sextarius in the greater Washington, D.C. area*. Co-PI with Megan L. Porter and Steven J. Taylor, \$20,023.

- 2014–2016 **36.** Illinois Department of Natural Resources. *Threats analysis and conservation actions for the Illinois cave amphipod: vulnerability assessment of groundwater quality, land use, and climate change impacts* Co-PI with Steven J. Taylor and Scott D. Cinel, \$35,000.
- 2014–2016 **35.** Postdoctoral Research Fellowship. Illinois Natural History Survey, Prairie Research Institute, University of Illinois Urbana-Champaign. \$94,000, including \$10,000 research stipend.
- 2014–2015 **34.** Alabama Department of Conservation & Natural Resources. *The range and relationships of three undescribed species of Typhlichthys (Percopsiformes: Amblyopsidae) in Alabama.* Co-PI with Jon W. Armbruster, \$10,000.
- 2014–2015 **33.** Illinois Department of Natural Resources. *White nose syndrome in Illinois bat populations: winter monitoring FY15.* Co-PI with Steven J. Taylor, \$43,112.
- 2014–2015 **32.** Cave Conservancy Foundation. *Distribution and conservation of cave biodiversity in the Valley and Ridge.* Co-PI with Annette Summers Engel, Kirk Zigler, Dante Fenolio and K. Denise Kendall, \$25,000.
- 2014–2015 **31.** Cave Conservancy of the Virginias. *Conservation assessment of crangonyctid amphipods within the subterranean genus Stygobromus of the Virginias.* Co-PI with Megan Porter and Mike Slay, \$15,600.
- 2014–2015 **30.** Section 6 Grant, Tennessee Wildlife Resources Agency. *Conservation status of Pseudanophthalmus cave beetles and a cave crayfish (Orconectes incomptus) for potential listing and other associated cave-obligate fauna in Tennessee.* Co-PI with Kirk Zigler, \$23,217.
- 2013–2015 **29.** Environmental Services, Inc. *Herpetofaunal and mammal species survey at Tennessee Army National Guard Volunteer Training Sites in Tennessee,* \$50,000.
- 2013–2014 **28.** Appalachian LCC Grant. *Classification and Georeferencing Cave/Karst Resources across the Appalachian LCC (#2013-03).* Co-PI with David Culver, Mary Christman, Daniel Doctor, David Weary, John Young, & Kirk Zigler, \$129,157.
- 2013 **27.** State Wildlife Grant. Tennessee Wildlife Resources Agency. *Conservation status of amblyopsid cavefishes and other cave-obligate fauna in Tennessee.* PI with Kirk Zigler & Jonathan Armbruster, \$14,000.
- 2012–2013 **26.** State Wildlife Grant. Alabama Department of Conservation and Natural Resources. *Documenting new undescribed species of the cavefish genus Typhlichthys (Percopsiformes: Amblyopsidae) in Alabama.* Co-PI with Jonathan Armbruster and Bernard Kuhajda, \$13,333.
- 2012 **25.** Jim Tanner Award for Outstanding Dissertation, Department of Ecology & Evolutionary Biology, University of Tennessee.
- 2011–2013 **24.** Gaylord Donnelley Environmental Postdoctoral Fellowship. Yale Institute for Biospheric Studies, Yale University, \$93,000.
- 2011 **23.** Science Alliance Award. Division of Biology, University of Tennessee, \$3,000.
- 2010–2011 **22.** Doctoral Dissertation Improvement Grant. National Science Foundation. *To see or not to see again: regressive evolution and Dollo's Law in North American cavefishes (Pisces: Amblyopsidae),* \$13,500.
- 2010 **21.** Publication Grant for *The Amphibians of Tennessee.* Tennessee Wildlife Resources Agency. Co-PI with R. Graham Reynolds and Scot Danforth, \$8,000.
- 2010 **20.** Summer Research Grant. Dept. of Ecology & Evolutionary Biology, University of Tennessee, \$1,000.

- 2010 19. Dean E. Metter Award. Society for the Study of Amphibians and Reptiles, \$750.
- 2009 18. Summer Research Grant. Dept. of Ecology & Evolutionary Biology, University of Tennessee, \$750.
- 2009 17. Ralph W. Stone Graduate Fellowship in Cave and Karst Studies, National Speleological Society, \$2,000.
- 2009 16. Edward C. Raney Fund Award. American Society of Ichthyologists and Herpetologists, \$1,000.
- 2008 15. Summer Research Grant. Dept. of Ecology & Evolutionary Biology, University of Tennessee, \$750.
- 2008–2011 14. State Wildlife Grant. Kentucky Department of Fish and Wildlife Resources. *Status, life history and phylogenetics of amblyopsid cavefishes in Kentucky*. Co-PI with Benjamin Fitzpatrick, \$33,810.
- 2008–2009 13. Preserve Grant. National Speleological Society. PI with Lee Florea, \$3,475. 2007–
- 2009 12. State Wildlife Grant. Tennessee Wildlife Resources Agency. *Status and distribution of the amblyopsid fishes *Forbesichthys agassizii* and *Typhlichthys subterraneus* in Tennessee*. Co-PI with Benjamin Fitzpatrick, \$29,834.
- 2007 11. Theodore Roosevelt Memorial Fund. American Museum of Natural History, \$1,500.
- 2007 10. Helen T. and F. M. Gaige Award. American Society of Ichthyologists and Herpetologists, \$500.
- 2007 9. Cave and Karst Grant-in-Aid. Cave Research Foundation, \$3,000.
- 2007 8. Institute for a Secure and Sustainable Environment (ISSE) Doctoral Fellowship, \$3,000.
- 2007 7. Summer Research Grant. Dept. of Ecology & Evolutionary Biology, University of Tennessee, \$850.
- 2007 6. Graduate Researchers in Ecology, Behavior, and Evolution Travel Award. University of Tennessee, \$150.
- 2006 5. Graduate Student Travel Award. American Society of Ichthyologists and Herpetologists, \$250.
- 2005 4. Marion Wells Graduate Research Scholarship. Dept. of Biology, Middle Tennessee State University, \$500.
- 2005 3. Charles Holland Biology Club Scholarship. Dept. of Biology, Middle Tennessee State University, \$500.
- 2004–2005 2. Mary C. Dunn Graduate Scholarship. Dept. of Biology, Middle Tennessee State University, \$2,000.
- 2003 1. William H. Butler, Jr. Graduate Research Scholarship. Dept. of Biology, Middle Tennessee State University, \$500.

PUBLICATIONS (*CO-FIRST AUTHOR; UNDERGRADUATE STUDENT AUTHOR; #GRADUATE STUDENT AUTHOR):

- In press* 83. Fitzgerald DB, Smith DR, Culver DC, Feller D, Fong DW, Hajenga J, **Niemiller ML**, Nolfi DC, Orndorff WD, Douglas B, Maloney KO, & Young JA. Using expert knowledge to support Endangered Species Act decision making for data-deficient species. *Conservation Biology*.

82. Gladstone NS[#], Pieper EB, Keenan SW, Paterson AT, Slay ME, Dooley K[#], Engel AS, & **Niemiller ML**. Discovery of the Blue Ridge springsnail, *Fontigens orolibas*, Hubricht, 1957 (Gastropoda: Emmericiidae) in east Tennessee and its conservation implications. *Freshwater Mollusk Biology and Conservation*.
81. Benito JB[#], Porter ML, & **Niemiller ML**. The mitochondrial genomes of five spring and groundwater amphipods of the family Crangonyctidae (Crustacea: Amphipoda) from eastern North America. *Mitochondrial DNA Part B*.
80. Soares D, & **Niemiller ML**. Variation in cephalic neuromasts in surface and cave-dwelling fishes of the family Amblyopsidae (Teleostei: Percopsiformes). *Journal of Cave and Karst Studies*.
- 2020 79. Holler Jr C, Mays J, & **Niemiller ML**. The fauna of caves and other subterranean habitats of North Carolina, USA. *Journal of Cave and Karst Studies* 82: 221–260.
78. Boyd SH, Niemiller KDK, Dooley KE[#], Nix J, & **Niemiller ML**. Using environmental DNA methods to survey for rare groundwater fauna: detection of an endangered endemic cave crayfish in northern Alabama. *PLoS One* 15: e0242741.
77. Mammola S, Amorim IR, Bichuette ME, Borges P, Cheeptham N, Cooper SJB, Culver DC, Deharveng L, Eme D, Ferreira RL, Fiser C, Fiser Z, Fong DW, Griebler C, Jeffery WR, Kowalko JE, Jugovic J, Lilley TM, Malard F, Manenti R, Martinez A, Meierhofer MB, Northup DE, Pellegrini TG, Protas M, **Niemiller ML**, Reboleira AS, Pipan T, Venarsky MP, Wynne JJ, Zagamajster M, & Cardoso P. Fundamental research questions in subterranean biology. *Biological Reviews* 95: 1855–1872.
76. Zigler KS, **Niemiller ML**, Stephen CDR[#], Ayala BN, Milne MA, Gladstone NS[#], Engel AS, Jensen JB, & Ozier J. Cave biodiversity of Georgia. *Journal of Cave and Karst Studies* 82: 125–167.
75. Baker SJ, **Niemiller ML**, Stites AJ, Ash KT, Davis MA, Dreslik MJ, & Phillips CA. Evaluation of environmental DNA to detect *Sistrurus catenatus* and *Ophidiomyces ophiodiicola* in crayfish burrows. *Conservation Genetics Resources* 12: 13–15.
74. DiStefano RJ, Ashley D, Brewer SK, Mouser JB, & **Niemiller ML**. Preliminary investigation of the critically imperiled Caney Mountain Cave Crayfish *Orconectes stygocaneyi* (Decapoda: Cambaridae) (Hobbs III 2001) in Missouri, USA. *Freshwater Crayfish* 25: 47–57.
73. Hart PB, **Niemiller ML**, Burress ED, Armbruster JW, Ludt WB, & Chakrabarty P. Cave-adapted evolution in the North American amblyopsid fishes inferred using phylogenomics and geometric morphometrics. *Evolution* 74: 936–949.
72. Soares D, & **Niemiller ML**. Extreme adaptation in caves. *The Anatomical Record* 303: 15–23.
- 2019 71. Gladstone NS[#], Perez KE, Pieper EB, Carter ET, Dooley KE[#], Shoobs NF[#], Engel AS, & **Niemiller ML**. A new species of stygobitic snail in the genus *Antrorbis* Hershler and Thompson, 1990 (Gastropoda, Cochliopidae) from the Appalachian Valley and Ridge of eastern Tennessee, USA. *ZooKeys* 898: 103–120.

70. **Niemiller ML**, Inebnit T, Hinkle A, Jones B, Jones M, Lamb J[#], Mann N, Miller B, Pinkley J, Pitts S, Sapkota K, & Slay ME. Discovery of a new population of the federally endangered Alabama cave shrimp, *Palaemonias alabamae* Smalley, 1961, in northern Alabama. *Subterranean Biology* 32: 43–59.
69. Wollenberg Valero KC, Marshall JC, Bastiaans E, Caccone A, Camargo A, Morando M, **Niemiller ML**, Pabijan M, Russello MA, Sinervo B, Werneck JFP, Sites Jr JW, Wiens JJ, & Steinfartz S. Patterns, mechanisms, and genetics of speciation in reptiles and amphibians. *Genes* 10: 646.
68. Mammola S, Cardoso P, Culver DC, Deharveng L, Ferreira RL, Fiser C, Galassi DMP, Griebler C, Halse S, Humphreys WF, Isaia M, Malard F, Martinez A, Moldovan OT, **Niemiller ML**, Pavlek M, Reboleira ASPs, Souza-Silva M, Teeling EC, Wynne JJ, & Zagamajster M. Scientists' warning on the conservation of subterranean ecosystems. *BioScience* 69: 641–650.
67. Gladstone NS[#], **Niemiller ML**, Pieper EB, Dooley KE, & McKinney ML. Morphometrics and phylogeography of the cave-obligate land snail *Helicodiscus barri* (Gastropoda, Stylommatophora, Helicodiscidae). *Subterranean Biology* 30: 1–32.
- 2018 66. Gladstone NS[#], Carter ET, Niemiller KDK, Hayter LE, & **Niemiller ML**. A new maximum body size record for the Berry Cave salamander (*Gyrinophilus gulolineatus*) and genus *Gyrinophilus* (Caudata, Plethodontidae) with a comment on body size in plethodontid salamanders. *Subterranean Biology* 28: 29–38.
65. Gladstone NS[#], Carter ET, McKinney ML, & **Niemiller ML**. Status and distribution of cave-obligate land snails in the Appalachians and Interior Low Plateau of the eastern United States. *American Malacological Bulletin* 36: 62–78.
64. **Niemiller ML**, Porter ML, Keany J[#], Gilbert H, Fong D, Culver DC, Kendall KD, Davis MA, & Taylor SJ. Evaluation of eDNA for groundwater invertebrate detection and monitoring: a case study with endangered *Stygobromus* (Amphipoda: Crangonyctidae). *Conservation Genetics Resources* 10: 247–257.
- 2017 63. Soares D, Adams R[#], Hammond S, Slay ME, Fenolio DB, & **Niemiller ML**. Evolution of coprophagy and nutrient absorption in a cave salamander. *Subterranean Biology* 24: 1–9.
62. Nelson SK, **Niemiller ML**, & Fitzpatrick BM. Co-occurrence and hybridization between *Necturus maculosus* and an undescribed *Necturus* species in the Southern Appalachians. *Journal of Herpetology* 51: 559–566.
61. **Niemiller ML**, Zigler KS, Ober KA, Carter ET[#], Engel AS, Moni G, Philips TK[#], & Stephen CDR[#]. Rediscovery and conservation status of six short-range endemic *Pseudanophthalmus* cave beetles (Carabidae: Trechini). *Insect Conservation and Diversity* 10: 495–501.
60. Fenolio DB, **Niemiller ML**, Gluesenkamp AG, McKee AM, & Taylor SJ. New distributional records of the stygobiotic crayfish *Cambarus cryptodytes* (Decapoda: Cambaridae) in the Floridan aquifer system of southwestern Georgia. *Southeastern Naturalist* 16: 163–181.

59. Bagley R[#], Sousa V, **Niemiller ML**, & Linnen C. History, geography, and host use shape genome-wide patterns of genetic variation in the redheaded pine sawfly (*Neodiprion lecontei*). *Molecular Ecology* 26: 1022–1044.
- 2016 58. **Niemiller ML**, Zigler KS, Hart PB[#], Kuhajda BR, Ayala BN, Armbruster JW, & Engel AS. First record of a stygobiotic fish (Percopsiformes: Amblyopsidae: *Typhlichthys*) from the Appalachians karst region in the eastern United States. *Subterranean Biology* 20: 39–50.
57. Armbruster JW, **Niemiller ML**, & Hart PB[#]. Morphological evolution of the cave-, spring- and swampfishes of the family Amblyopsidae (Percopsiformes). *Copeia* 104: 763–777.
56. Christman MC, Doctor DH, **Niemiller ML**, Weary DJ, Young JA, Zigler KS, & Culver DC. Predicting the occurrence of cave-inhabiting fauna based on features of the Earth surface environment. *PLoS One* 11: e0160408.
55. Reynolds RG, Collar DC, Pasachnik SA, **Niemiller ML**, Puente-Rolon AR, & Revell LJ. Ecological specialization and morphological diversification in Greater Antillean boas. *Evolution* 70: 1882–1895.
54. **Niemiller ML**, Zigler KS, Stephen CDR[#], Carter ET[#], Paterson AT, Taylor SJ, & Engel AS. Vertebrate fauna in caves of eastern Tennessee within the Appalachians karst region, USA. *Journal of Cave and Karst Studies* 78: 1–24.
53. **Niemiller ML**, Glorioso BM, Fenolio DB, Reynolds RG, Taylor SJ, & Miller BT. Growth, survival, longevity, and population size of the Big Mouth Cave salamander (*Gyrinophilus palleucus necturoides*) from the type locality in Grundy Co., Tennessee, USA. *Copeia* 104: 35–41.
52. Taylor SJ, & **Niemiller ML**. Biogeography and conservation of *Batrachus* groundwater amphipods (Crangonyctidae) in the central and eastern United States. *Subterranean Biology* 17: 1–29.
- 2015 51. Taylor SJ, Krejca JK, **Niemiller ML**, Dreslik MJ, & Phillips CA. Life history and demographic differences between cave and surface populations of the western slimy salamander *Plethodon albagula* (Caudata: Plethodontidae) in central Texas. *Herpetological Conservation and Biology* 10: 740–752.
- 2014 50. Thompson S, Muzinic L, **Niemiller ML**, & Voss SR. Probability of regenerating a normal limb after bite injury in the Mexican axolotl (*Ambystoma mexicanum*). *Regeneration* 1: 27–32.
49. Kendall KD, **Niemiller ML**, Dittrich-Reed D, & Schussler EE. Helping graduate teaching assistants in biology use student evaluations as professional development. *The American Biology Teacher* 76: 584–588.
48. Fenolio DB, **Niemiller ML**, Bonett RM, Graening GO, Collier BA, & Stout JF. Life history, demography, and the influence of cave-roosting bats on a population of the grotto salamander (*Eurycea spelaea*) from the Ozark Plateaus of Oklahoma (Caudata: Plethodontidae). *Herpetological Conservation and Biology* 9: 394–405.

47. Espinasa L, Espinasa M, Fenolio DB, Slay ME, & **Niemiller ML**. Distribution and conservation status of *Speleonycta ozarkensis* (Insecta: Zygentoma: Nicoletiidae) from caves of the Ozark Highlands of Arkansas and Oklahoma, USA. *Subterranean Biology* 14: 51–62.
46. Chakrabarty P, Prejean JA, & **Niemiller ML**. The Hoosier cavefish, a new and endangered species (Amblyopsidae, *Amblyopsis*) from the caves of southern Indiana. *ZooKeys* 412: 41–57.
45. Soares D, **Niemiller ML**, & Higgs D. Hearing and acoustic communication in cavefishes. *Ambient Science* 1: 1–6.
44. Kennan SW, **Niemiller ML**, & Williams BW. Observations of *Cambarus bartonii cavatus* (Decapoda: Cambaridae) and ectosymbiotic branchiobdellidans (Annelida: Clitellata) in Cruze Cave, Knox County, Tennessee, USA. *Speleobiology Notes* 6: 55–61.
43. Fenolio DB, **Niemiller ML**, & Martinez B. Observations of reproduction in captivity by the Dougherty Plain Cave Crayfish, *Cambarus cryptodytes* (Decapoda: Astacoidea: Cambaridae). *Speleobiology Notes* 6: 14–26.
42. Reynolds RG, **Niemiller ML**, & Revell LJ. Toward a Tree-of-Life for the boas and pythons: multilocus species-level phylogeny with unprecedented taxon sampling. *Molecular Phylogenetics and Evolution* 71: 201–213.
41. **Niemiller ML**, & Reeves WC. Predation by the stygophilic crayfish *Cambarus tenebrosus* on the salamander *Pseudotriton ruber* within a cave in Cannon County, Tennessee, USA. *Speleobiology Notes* 6: 8–13.
- 2013 40. Barun A, **Niemiller ML**, Fitzpatrick BM, Fordyce JA, & Simberloff D. Can genetic data confirm or refute historical records: the island invasion of the small Indian mongoose (*Herpestes auro-punctatus*). *Biological Invasions* 15: 2243–2251.
39. Fenolio DB, **Niemiller ML**, Levy M, & Martinez B. Conservation status of the Georgia blind salamander (*Eurycea wallacei*) from the Floridan Aquifer of Florida and Georgia. *Reptiles and Amphibians* 20: 97–111.
38. Kendall KD, **Niemiller ML**, Dittrich-Reed D, Chick LD, Wilmoth L, Milt A, Burt M, Lopes N, Cantwell L, Rubio L, Allison A, & Schussler EE. Departments can develop teaching identities of graduate students. *CBE – Life Sciences Education* 12: 316–317.
37. McAllister CT, Bursey CR, Fenolio DB, & **Niemiller ML**. *Bothriocephalus* sp. (Cestoidea: Bothriocephalidea: Bothriocephalidae) from the Georgia blind salamander, *Eurycea wallacei* (Caudata: Plethodontidae), in Georgia, USA: first definitive report of a parasite from this host. *Comparative Parasitology* 80: 308–311.
36. **Niemiller ML**, Graening GO, Fenolio DB, Godwin JC, Cooley JR, Pearson WR, Near TJ, & Fitzpatrick BM. Doomed before they are described? The need for conservation assessments of cryptic species complexes using an amblyopsid cavefish (Amblyopsidae: *Typhlichthys*) as a case study. *Biodiversity and Conservation* 22: 1799–1820.
35. Reynolds RG, **Niemiller ML**, Hedges SB, Dornburg A, & Revell LJ. Molecular phylogeny and historical biogeography of West Indian boid snakes (*Chilabothrus*). *Molecular Phylogenetics and Evolution* 68: 461–470.

34. **Niemiller ML**, & Zigler KS. Patterns of cave biodiversity and endemism in the Appalachians and Interior Plateau of Tennessee USA. *PLoS One* 8: e64177.
33. Fenolio DB, **Niemiller ML**, Soares D, Slay ME, Harris KA, & Harris N. Subterranean reproduction of the ringed crayfish, *Orconectes neglectus* Faxon 1885 (Astacoidea: Cambaridae) within a cave in the Ozark Highlands of Oklahoma, USA. *Speleobiology Notes* 5: 43–46.
32. Fenolio DB, McAllister CT, **Niemiller ML**, Soares D, & Cooley J. An extreme case of trematode parasitic infection of a larval Ozark blind cave salamander, *Eurycea spelaea* (Caudata: Plethodontidae) from the Ozark Highlands of Missouri, USA. *Speleobiology Notes* 5: 34–37.
31. Fenolio DB, Zhao Y, **Niemiller ML**, & Stout JF. *In situ* observations of seven enigmatic cave loaches and one cave barbel from Guangxi, China, with notes on conservation status. *Speleobiology Notes* 5: 19–33.
30. Fenolio DB, **Niemiller ML**, Soares D, Slay ME, Stark RC, & Hensley SL. A maximum size and maximum abundance record of the Delaware County cave crayfish, *Cambarus subterraneus* Hobbs 1993 (Astacoidea: Cambaridae), from Twin Cave, Delaware County, Oklahoma, USA. *Speleobiology Notes* 5: 9–13.
29. Soares D*, & **Niemiller ML***. Sensory adaptations of cavefishes to cave environments. *BioScience* 63: 274–283.
28. **Niemiller ML**, McCandless JR, Reynolds RG, Caddle J, Tillquist CR, Near TJ, Pearson WD, & Fitzpatrick BM. Effects of climatic and geological processes during the Pleistocene on the evolutionary history of the northern cavefish, *Amblyopsis spelaea* (Teleostei: Amblyopsidae). *Evolution* 67: 1011–1025.
27. **Niemiller ML**, Higgs DM, & Soares D. Evidence for hearing loss in amblyopsid cavefishes. *Biology Letters* 9: 20130104.
26. **Niemiller ML**, Fitzpatrick BM, Shah P, Schmitz L, & Near TJ. Evidence for repeated loss of selective constraint in rhodopsin of amblyopsid cavefishes. *Evolution* 67: 732–748.
- 2012 25. Reynolds RG, **Niemiller ML**, & Fitzpatrick BM. Genetic analysis of an endemic archipelagic lizard reveals sympatric cryptic lineages and taxonomic discordance. *Conservation Genetics* 13: 953–963.
24. Miller BT*, & **Niemiller ML***. *Gyrinophilus palleucus*. *Catalogue of American Amphibians and Reptiles* 884: 1–7.
23. **Niemiller ML**, Near TJ, & Fitzpatrick BM. Delimiting species using multilocus data: diagnosing cryptic diversity in the southern cavefish *Typhlichthys subterraneus* (Teleostei: Amblyopsidae). *Evolution* 66: 846–866.
22. Fitzpatrick BM, Fordyce JA, **Niemiller ML**, & Reynolds RG. What can DNA tell us about biological invasions? *Biological Invasions* 14: 245–253.

- 2011 **21. Niemiller ML**, Reynolds RG, Glorioso BM, Spiess J, & Miller BT. Herpetofauna of the cedar glades and associated habitats of the Inner Central Basin of middle Tennessee. *Herpetological Conservation and Biology* 6: 135–149.
- 20.** Reynolds RG, **Niemiller ML**, & Pasachnik SA. Distribution of the Pygmy Salamander (*Desmognathus wrighti*) in Tennessee. *Journal of the Tennessee Academy of Science* 86: 53–55.
- 2010 **19.** Glorioso BM, **Niemiller ML**, & Cobb VA. Feeding activity of *Amphiuma tridactylum* at Reelfoot Lake, Tennessee. *Journal of the Tennessee Academy of Science* 85:87–90.
- 18.** Reynolds RG, & **Niemiller ML**. 2010. Island invaders: introduced reptiles and amphibians of the Turks and Caicos Islands. *Reptiles and Amphibians* 17: 117–121.
- 17. Niemiller ML**, Osbourn MS, Fenolio DB, Pauley TK, Miller BT, & Holsinger JR. Conservation status and habitat use of the West Virginia Spring Salamander (*Gyrinophilus subterraneus*) and Spring Salamander (*G. porphyriticus*) in General Davis Cave, Greenbrier Co., West Virginia. *Herpetological Conservation and Biology* 5: 32–43.
- 16. Niemiller ML***, & Miller BT*. *Gyrinophilus gulolineatus*. *Catalogue of American Amphibians and Reptiles*. 862.1.
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- In review* 11. Grant EHC, Mulder KP, Brand AB, Chambers DB, Wynn A, Capshaw G, **Niemiller ML**, Phillips JG, Kuchta SR, & Bell RC. Evolutionary and population assessment of the West Virginia Spring Salamander (*Gyrinophilus subterraneus*) endemic to General Davis Cave, West Virginia.
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5. Niemiller KDK, Davis MA, & **Niemiller ML**. How many species can you name? Addressing biodiversity naivety using project-based learning with iNaturalist.
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1. **Niemiller ML**, Zigler KS, & Fenolio DB. The obligate cave fauna of the Interior Plateau and Appalachians karst regions of Tennessee, Alabama and Georgia.

BOOK CHAPTERS AND PROCEEDINGS (*CO-FIRST AUTHOR; UNDERGRADUATE AUTHOR):

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- 2016 **2.** Kendall KD, **Niemiller ML**, & Engel AS. Tennessee-Alabama-Georgia (TAG) Cave Teaching and Learning Module (K-5). Cave Conservancy Foundation. 75p.
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SHORT PEER-REVIEWED NOTES (*CO-FIRST AUTHOR; #GRADUATE STUDENT AUTHOR; UNDERGRADUATE AUTHOR):

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15. **Niemiller ML**, & Miller BT. Geographic distribution. *Rana palustris*. *Herpetological Review* 37: 489–490.
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12. **Niemiller ML**, & Miller BT. Geographic distribution. *Plethodon dorsalis*. *Herpetological Review* 37: 484.
11. **Niemiller ML**, & Miller BT. Geographic distribution. *Eurycea lucifuga*. *Herpetological Review* 37: 483.
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2020 28. **Niemiller ML**, & Niemiller KDK. Species status assessment for the Tennessee Cave Salamander (*Gyrinophilus pallescens*) McCrady, 1954. Version 1.0. Tennessee Wildlife Resources Agency, Nashville, Tennessee. 59 pp.

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24. Hohoff TC, **Niemiller ML**, & Dreslik MJ. 2017 bat monitoring along the I-90 corridor. Illinois Natural History Survey Technical Report 2018(4): 1–8.

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2015 19. Fenolio DB, **Niemiller ML**, & McKee AM. Range assessment in Georgia for two threatened groundwater species of the Floridan Aquifer (*Cambarus cryptodytes* and *Eurycea wallacei*). Georgia Department of Natural Resources, Wildlife Resources Division, Social Circle, Georgia. 22 pp.

18. **Niemiller ML**, Zigler KS, & Ober KA. Conservation status of seven *Pseudanophthalmus* cave beetles and a cave crayfish *Orconectes incomptus* for possible federal listing. Technical Report. Tennessee Wildlife Resources Agency, Nashville, Tennessee, and U.S. Fish & Wildlife Service, Cookeville, Tennessee. 52 pp.
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- 2014 16. Armbruster JW, & **Niemiller ML**. Status survey of *Typhlichthys subterraneus* in Alabama. Technical Report. Alabama Division of Wildlife and Freshwater Fisheries, Montgomery, Alabama. 31 pp.
- 2013 15. **Niemiller ML**, & Fitzpatrick BM. Status, life history, and phylogenetics of amblyopsid cavefishes in Kentucky. Technical Report. Kentucky Department of Fish and Wildlife Resources, Frankfort, Kentucky. 163 pp.
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- 3.** Miller BT, & **Niemiller ML**. Distribution and phylogenetics of the Tennessee cave salamander complex (*Gyrinophilus p. palleucus*, *G. p. necturoides*, and *G. gulolineatus*). Unpublished Technical Report. Tennessee Wildlife Resources Agency. 45 pp.
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- 1.** Miller BT, Spiess J, & **Niemiller ML**. Inventory of amphibians and reptiles at Stones River National Battlefield, Rutherford County, Tennessee. Unpublished Technical Report. National Park Service.

POPULAR/ONLINE ARTICLES:

- 2020 **12.** **Niemiller ML**, Smith W, Hamed K. Where you can find Green Salamanders and how you can help them. *The Tennessee Conservationist* 86: 20–25.
- 2018 **11.** Engel AS, & **Niemiller ML**. Landowner’s guide to biological resources and biodiversity in Tennessee caves. In Guide to caves and Sinkholes in Tennessee (Drumm EC, eds). University of Tennessee Extension Institute of Agriculture, University of Tennessee. Publication W453-D. 6 pp.
- 2017 **10.** Fenolio D, **Niemiller M**, Soares D, Gluesenkamp A, Chakrabarty P, & Zhao Y. China’s mysterious cavefishes. *Anima Mundi* 28: 100–113.
- 2015 **9.** Zigler KS, Kuhajda BR, Ayala BN, **Niemiller ML**, & Engel AS. First observation of southern cavefish (*Typhlichthys subterraneus*) east of the Cumberland Plateau in northeastern Georgia. *Bulletin of the Georgia Speleological Survey* 2015: 9–11.
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- 7.** **Niemiller ML**, Zigler KS, & Fenolio DB. The obligate cave life of Madison County. *SERA Summer Cave Carnival Guidebook*.
- 2012 **6.** **Niemiller ML**, Fenolio DB, & Zigler KS. The obligate cave fauna of Georgia. *Bulletin of the Georgia Speleological Survey* 2012: 6–12.

5. Fenolio D, Bonett R, & **Niemiller M**. Developing a captive breeding protocol for Georgia's Blind Salamander, (*Haideotriton wallacei*) at the Atlanta Botanical Garden. *Leaf Litter* 1: 40–45.
- 2011 4. Reynolds, RG, & **Niemiller ML**. New scales: reptiles invade the Turks and Caicos. *Green Pages, Times of the Islands Magazine* 94: 30–33.
- 2010 3. **Niemiller ML**, & Glorioso BM. The Indo-Pacific Gecko (*Hemidactylus garnotii*) in Rutherford County, Tennessee. *Tennessee Herpetological Society Newsletter*.
- 2005 2. Miller BT, & **Niemiller ML**. The Tennessee cave salamander complex. Pg. 91–94 in 2005 *National Speleological Society Convention Guidebook* (Brown JS, & Simon SS eds.). National Speleological Society, Huntsville, AL.
1. **Niemiller ML**, & Miller BT. Common salamanders of Tennessee caves. *Tennessee Caver* 2: 12–18.

INVITED TALKS:

- 2020 42. **Niemiller ML**. Studying the darkness of cave life in light of genomics. HudsonAlpha, Huntsville, Alabama, 04 March [oral 60 min].
- 2019 41. **Niemiller ML**. Cave life of Alabama: over 100 years of ongoing discovery and study. Birmingham Grotto Meeting, Birmingham, Alabama, 5 November [oral 60 min].
40. **Niemiller ML**. Out of sight, out of mind: the ecology, evolution, and conservation of cave life. Department of Biology, Texas State University, San Marcos, Texas, 25 October [oral 60 min].
39. **Niemiller ML**. Cave biodiversity in Alabama: new surveys and discoveries. 1st Alabama Karst Science and Research Symposium, University of Alabama Museum of Natural History, Tuscaloosa, Alabama, 13 August [oral 30 min].
38. **Niemiller ML**. Out of sight, out of mind: the ecology, evolution, and conservation of cave life. Department of Biology, University of Oklahoma, Norman, Oklahoma, 10 April [oral 60 min].
- 2018 37. **Niemiller ML**. Out of sight, out of mind: the ecology, evolution, and conservation of cave life. Department of Biological Sciences, University of Alabama, Tuscaloosa, Alabama, 16 November [oral 60 min].
36. **Niemiller ML**. Out of sight, out of mind: the ecology, evolution, and conservation of cave life. Department of Biological Sciences, University of Mississippi, Oxford, Mississippi, 2 November [oral 60 min].
35. **Niemiller ML**. Cave life of Alabama: over 100 years of ongoing discovery and study. Huntsville Grotto Meeting, Huntsville, Alabama, 2 May [oral 60 min].
34. **Niemiller ML**. Out of sight, out of mind: the ecology, evolution, and conservation of cave life. Department of Biological Sciences, University of North Carolina-Asheville, Asheville, North Carolina, 18 April [oral 60 min].

- 33. Niemiller ML.** Distribution and conservation of subterranean biodiversity in Tennessee. Nashville Grotto Meeting, Brentwood, Tennessee, 5 April [oral 40 min].
- 32. Niemiller ML.** Distribution and conservation of subterranean biodiversity in Tennessee. Tennessee Cave and Karst Symposium, Fall Creek Falls State Park, Spencer, Tennessee, 24 February [oral 30 min].
- 2017 **31. Niemiller ML.** Environmental DNA as a tool for groundwater biodiversity monitoring. Department of Biological Sciences, The University of Alabama in Huntsville, 18 September [oral 60 min].
- 30. Niemiller ML.** Out of sight, out of mind: the ecology, evolution, and conservation of subterranean life. Department of Biological Sciences, Mississippi State University, Starkville, Mississippi, 25 August [oral 60 min].
- 29. Niemiller ML.** The ecology, evolution, and conservation of subterranean life. Department of Biological Sciences, The University of Alabama in Huntsville, 30 January [oral 60 min].
- 2016 **28. Niemiller ML.** Conservation of amblyopsid cavefishes (Percopsiformes: Amblyopsidae) of the Ozark Highlands and Interior Low Plateau karst regions, USA. Conservation of Subterranean Fauna and Habitats Symposium. 23rd International Conference on Subterranean Biology, Fayetteville, Arkansas, USA, 13–17 June [oral 15 min].
- 27. Niemiller ML.** Life in the dark: insights into the evolution, biogeography, and conservation of subterranean life. Illinois Natural History Survey, Champaign, Illinois, 16 February [oral 60 min].
- 2015 **26. Niemiller ML.** The amphibians and reptiles of the cedar glades and barrens of the Central Basin of middle Tennessee. 76th Annual Meeting of the Association of Southeastern Biologists, Chattanooga, Tennessee, 1–4 April [oral 20 min].
- 25. Niemiller ML.** Department of Biological Sciences, Northern Illinois University, DeKalb, Illinois, 26 March [oral 60 min].
- 2014 **24. Niemiller ML.** Department of Biology, Middle Tennessee State University, Murfreesboro, Tennessee, 13 November [oral 60 min].
- 23. Niemiller ML.** Department of Natural Resources and Environmental Sciences, University of Illinois, Urbana-Champaign, Illinois, 7 November [oral 60 min].
- 22. Niemiller ML.** Department of Biology, Centre College, Danville, Kentucky, 22 September [oral 60 min].
- 21. Niemiller ML.** Department of Biological Sciences, Auburn University, Auburn, Alabama, 12 September [oral 60 min].
- 20. Niemiller ML.** Minnesota Herpetological Society, Minneapolis, Minnesota, 5 September [oral 60 min].
- 19. Niemiller ML.** Department of Biology, Eastern Kentucky University, Richmond, Kentucky, 18 April [oral 60 min].

18. **Niemiller ML.** Department of Biology, Austin Peay State University, Clarksville, Tennessee, 6 March [oral 60 min].
- 2013 17. **Niemiller ML.** Department of Biology, University of Louisville, Louisville, Kentucky, 4 October [oral 60 min].
16. **Niemiller ML.** Department of Biological and Environmental Sciences, University of Tennessee-Chattanooga, Chattanooga, Tennessee, 7 May [oral 60 min].
15. **Niemiller ML.** Department of Biology, University of Central Arkansas, Conway, Arkansas, 5 March [oral 60 min].
14. **Niemiller ML.** Yale Institute for Biospheric Studies, Yale University, New Haven, Connecticut, 15 February [oral 60 min].
13. **Niemiller ML.** Department of Biology, Western Carolina University, Cullowhee, North Carolina, 8 February [oral 60 min].
- 2012 12. **Niemiller ML,** and Fitzpatrick BM. Speciation in subterranean plethodontid salamanders of the genus *Gyrinophilus*. 7th World Congress of Herpetology, Vancouver, British Columbia, Canada, 8–14 August [oral 15 min].
11. **Niemiller ML,** and Miller BT. The ecology of cave-dwelling *Gyrinophilus* salamanders (Caudata: Plethodontidae). 7th World Congress of Herpetology, Vancouver, British Columbia, Canada, 8–14 August [oral 30 min].
10. **Niemiller ML.** Smithsonian Museum of Natural History, Washington, District of Columbia, 27 March [oral 60 min].
9. **Niemiller ML.** Department of Biology, University of Maryland, College Park, Maryland, 26 March [oral 60 min].
8. **Niemiller ML.** Department of Ecology and Evolutionary Biology, University of Connecticut, Storrs, Connecticut, 9 February [oral 60 min].
7. **Niemiller ML.** Museum of Natural Science, Louisiana State University, Baton Rouge, Louisiana, 3 February [oral 60 min].
- 2011 6. **Niemiller ML.** University of Windsor, Windsor, Ontario, Canada, 23 September [oral 60 min].
5. **Niemiller ML.** USGS National Wetlands Center, Lafayette, Louisiana, 15 March [oral 60 min].
- 2009 4. **Niemiller ML,** Miller BT, & Fitzpatrick BM. Systematics and evolutionary history of subterranean *Gyrinophilus* salamanders. The 15th International Congress of Speleology, Kerrville, Texas, 19–26 July [oral 20 min].
3. **Niemiller ML,** & Miller BT. A survey of the cave-associated amphibians of the eastern United States with an emphasis on salamanders. The 15th International Congress of Speleology, Kerrville, Texas, 19–26 July [oral 20 min].

- 2008 **2. Niemiller ML.** A Salamander in the dark: in search of Tennessee cave salamanders. 14th Annual Meeting of the Tennessee Herpetological Society, Sewanee, Tennessee, 24–26 September [oral 60 min].
- 2007 **1. Niemiller ML.** Phylogenetics of the southern cavefish, *Typhlichthys subterraneus*: implications for conservation and management. 2007 National Cave and Karst Management Symposium, St. Louis, Missouri, 8–12 October [oral 15 min].

OTHER PRESENTATIONS (*PRESENTING AUTHOR; #GRADUATE STUDENT; UNDERGRADUATE AUTHOR; HIGH SCHOOL AUTHOR):

- 2020 **117. Niemiller ML***, Davis MA, Tan M, Apodaca JJ, Dooley KE#, Benito J#, Niemiller KDK, Hardman R, Istvanko D, Ogle C, Thames D, Miller D, Campbell J, Simpson C, & Upchurch P. Two for one? Phylogenomics and population genetic analyses of the Green Salamander (*Aneides aeneus*) reveal two lineages in Tennessee. 2020 Annual Southeast Partners in Amphibian and Reptile Conservation Meeting, Nauvoo, Alabama, 27–29 February [oral 5 min].
- 116.** Niemiller KDK*, Davis MA, & **Niemiller ML.** Herping for engagement. 2020 Annual Southeast Partners in Amphibian and Reptile Conservation Meeting, Nauvoo, Alabama, 27–29 February [poster].
- 115.** Lamb J#*, Cantrell A#, **Niemiller ML**, & Wang Y. Abiotic factors that influence cave use by salamanders. 2020 Annual Southeast Partners in Amphibian and Reptile Conservation Meeting, Nauvoo, Alabama, 27–29 February [poster].
- 114.** Wilson KL#*, Greenway D, Lamb JM#, & **Niemiller ML.** Born into darkness: the nesting and development of the Northern Slimy Salamander (*Plethodon glutinosus*) in a north Alabama cave. 2020 Annual Southeast Partners in Amphibian and Reptile Conservation Meeting, Nauvoo, Alabama, 27–29 February [poster].
- 113.** Dooley KE#*, **Niemiller ML**, Niemiller KDK, Hardman R, Istvanko D, Ogle C, Thames D, Clark T, Miller D, Campbell J, Simpson C, & Upchurch P. Distribution, abundance, and conservation status of two genetically distinct lineages of Green Salamander (*Aneides aeneus*) in Tennessee. 2020 Annual Southeast Partners in Amphibian and Reptile Conservation Meeting, Nauvoo, Alabama, 27–29 February [poster].
- 112.** Davis MA*, Harper LR, Molano-Flores B, & **Niemiller ML.** BeeDNA: Microfluidics and metabarcoding reveal pollinator communities from a single flower. 80th Midwest Fish & Wildlife Conference, Springfield, Illinois, 26–29 January [oral 20 min].
- 111.** Rahlin A*, **Niemiller ML**, & Davis MA. Testing the effectiveness of eDNA metagenomics to detect endemic wetland bird species. 80th Midwest Fish & Wildlife Conference, Springfield, Illinois, 26–29 January [oral 20 min].
- 110.** **Niemiller ML***. Updates on cave crayfish research in Alabama. Joint Meeting of the Alabama Rivers and Stream Network and Alabama Mollusk & Crayfish Working Group, Cullman, Alabama, 14–16 January [oral 20 min].

109. Davis MA*, Harper LR*, **Niemiller ML**, Benito J#, and Molano-Flores B. BeeDNA: Microfluidics metabarcoding of eDNA reveals pollinator communities. SERDP & ESTCP Technical Symposium, Washington, DC, 3–5 December [poster].
108. Stephen CDR**, **Niemiller ML**, Armbruster JW, & Bond JE. Unusual structuring of troglobiont *Hesperochernes* populations across five karst regions of the central and eastern United States (Pseudoscorpiones: Chernetidae). National Speleological Society 2019 Convention, Cookeville, Tennessee, 17–21 June [oral 15 min].
107. **Niemiller ML**, Yancey ME, Ngo L, & Zigler KS*. Cave biodiversity of middle Tennessee. National Speleological Society 2019 Convention, Cookeville, Tennessee, 17–21 June [oral 15 min].
106. Inebnit T*, **Niemiller ML***, Slay ME, Hinkle A, Jones BD, Jones M, Lamb J#, Mann N, Miller B, Pattavina P, Pinkley J, Pitts S, Richardson D, & Sapkota KN. Comprehensive biodiversity inventory of the Fern Cave system at Fern Cave National Wildlife Refuge, Jackson County, Alabama. National Speleological Society 2019 Convention, Cookeville, Tennessee, 17–21 June [oral 15 min].
105. Carter ET*, Gladstone NS#, Hayter LE, Niemiller KDK, & **Niemiller ML**. Demography and conservation status of the Berry Cave Salamander (*Gyrinophilus gulolineatus*) in eastern Tennessee. National Speleological Society 2019 Convention, Cookeville, Tennessee, 17–21 June [oral 15 min].
104. Dooley KE*, Nix J, Bailey LJ, Kuhajda BR, Niemiller KDK, Engel AS, & **Niemiller ML**. Development of an environmental DNA assay to detect and monitor the federally endangered Alabama cave shrimp, *Palaemonias alabamae*. National Speleological Society 2019 Convention, Cookeville, Tennessee, 17–21 June [oral 15 min].
103. **Niemiller ML***, Hinkle A, Jones BD, Kuhajda BR, Lamb J#, Niemiller KDK, Stephen CDR#, Zigler KS, & Engel AS. Subterranean biodiversity in Alabama: addressing knowledge gaps through new bioinventory efforts. National Speleological Society 2019 Convention, Cookeville, Tennessee, 17–21 June [oral 15 min].
102. Sturm ND**, Kocot KM, **Niemiller ML**, & Huryn AD. Primer development for environmental DNA detection of cave-dwelling crayfish. Society for Freshwater Science, Salt Lake City, Utah, 19–23 May [poster].
101. Gladstone NS**, Pieper EB, Carter ET, Engel AS, Dooley KE, & **Niemiller ML**. Stygobitic snail diversity in the Appalachian Ridge and Valley of eastern Tennessee. Freshwater Mollusk Conservation Society 2019 Symposium, San Antonio, Texas, 14–18 April [poster].
100. **Niemiller ML***, Niemiller KDK*, Dooley KE, Istvanko D, Ogle C, & Thames D. It's not easy being green? Update on the genetics and conservation status of the green salamander (*Aneides aeneus*) in Tennessee. 2019 Annual Southeast Partners in Amphibian and Reptile Conservation Meeting, Black Mountain, North Carolina, 14–17 February [poster].
99. Burress PH**, **Niemiller ML**, Burress ED, Armbruster JW, & Chakrabarty P. Phylogenomics and shape variation among amblyopsid fishes. 2019 Society for Integrative and Comparative Biology Annual Meeting, Tampa, Florida, 3–7 January [oral 15 min].

- 2018
98. Zhao Y, Fenolio DB, Soares D, Gluesenkamp A, **Niemiller ML**, Bichuette ME, & Chakrabarty P. Beauty underground: cavefishes in China. 24th International Conference on Subterranean Biology, Aveiro, Portugal, 20–24 August [oral 20 min].
97. Stephen CDR^{**}, **Niemiller ML**, & Bond JE. Unraveling the eastern North American *Hesperochernes* (Pseudoscorpiones, Chernetidae) species complex. 24th International Conference on Subterranean Biology, Aveiro, Portugal, 20–24 August [oral 20 min].
96. Burress PH^{**}, Chakrabarty P, & **Niemiller ML**. Phylogenomics of the Amblyopsidae. Joint Meeting of Ichthyologists and Herpetologists, Rochester, New York, 11–15 July [oral 15 min].
95. Burress PH^{**}, Chakrabarty P, & **Niemiller ML**. Population genetics of the southern cavefish (*Typhlichthys subterraneus*). Geological Society of America Southeastern Section Meeting, Knoxville, Tennessee, 12–13 April [oral 20 min].
94. Engel AS^{*}, **Niemiller ML**, Zigler KS, Ayala BN, Hart PB[‡], Kuhajda BR, & Armbruster JW. Reconstructing late Pliocene through early Pleistocene ancestral river drainage basins in the Interior Low Plateau and Appalachians karst regions to understand the evolutionary history of *Typhlichthys subterraneus* (Percopsiformes: Amblyopsidae). Geological Society of America Southeastern Section Meeting, Knoxville, Tennessee, 12–13 April [oral 20 min].
93. **Niemiller ML**^{*}, Zigler KS, Carter ET, Stephen CDR[‡], Engel AS, & Shear WA. Influence of geological barriers on the phylogeography and dispersal of cave-adapted *Scoterpes* millipedes (Chordeumatida: Trichopetalidae) in the Interior Low Plateau and Appalachians karst regions. Geological Society of America Southeastern Section Meeting, Knoxville, Tennessee, 12–13 April [oral 20 min].
92. **Niemiller ML**^{*}, Carter ET, Gladstone NS[‡], Niemiller KDK, & Fitzpatrick BM. Demography and life history of cave-dwelling *Gyrinophilus* salamanders in eastern Tennessee. Southeast Partners in Amphibian and Reptile Conservation Meeting, Helen, Georgia, 22–25 February. [poster].
91. West TR^{*}, **Niemiller ML**, Hohoff TC, & Davis MA. Assessing bat diets via guano metabarcoding. 78th Midwest Fish & Wildlife Conference, Milwaukee, Wisconsin, 28–31 January [poster].
90. Burress PH^{**}, **Niemiller ML**, & Chakrabarty P. Phylogenomics of the cave-, spring-, and swampfishes of North America (Percopsiformes: Amblyopsidae). 2018 SICB Annual Meeting, San Francisco, California, 3–7 January [oral 15 min].
- 2017
89. Casper GS^{*}, Robson JL, **Niemiller ML**, Kroening KM, & Mittermaier B. Biodiversity and conservation of mammals in the Milwaukee River basin. 2017 Southeastern Wisconsin Conservation Summit, Port Washington, Wisconsin, 3–4 November [poster].
88. Mouser JB^{**}, Veau Den Bussche RA, **Niemiller ML**, Wood C, Ashley D, & Brewer SK. New techniques for determining occurrence and demographics of cave crayfish. 22nd National Cave and Karst Management Symposium, Eureka Springs, Arkansas, 16–20 October [oral 15 min].

87. **Niemiller ML***, Porter ML, Keany J, Gilbert H, Fong DW, Culver DC, Hobson CS, Kendall KD, Davis MA, Taylor SJ. Using environmental DNA to detect and monitor rare and endangered groundwater fauna: a case study. 22nd National Cave and Karst Management Symposium, Eureka Springs, Arkansas, 16–20 October [oral 15 min].

86. **Niemiller ML***, Zigler KS, Ober KA, Carter ET[#], Engel AS, Moni G, Philips TK, & Stephen CDR[#]. Rediscovery and conservation status of short-range endemic *Pseudanophthalmus* cave beetles (Carabidae: Trechini) in Tennessee, Alabama, and Georgia. 22nd National Cave and Karst Management Symposium, Eureka Springs, Arkansas, 16–20 October [oral 15 min].

85. Rahlin AA*, **Niemiller ML**, & Davis MA. Using environmental DNA sampling methods to determine cryptic wetland bird occupancy in Illinois. 2017 Ecological Society of America Meeting, Portland, Oregon, August 6–11 [poster].

84. Engel AS*, **Niemiller ML**, Zigler KS, Stephen CDR[#], Carter ET[#], Paterson AT, Keenan SW, & Taylor SJ. Invertebrate and vertebrate cave fauna records for the Appalachian Valley and Ridge. 17th International Congress of Speleology, Sydney, Australia, July 23–29 [oral 30 min].

83. Engel AS*, Paterson AT, & **Niemiller ML**. Biogeography of microbes from caves in the Interior Low Plateau and Appalachians karst regions. 17th International Congress of Speleology, Sydney, Australia, July 23–29 [oral 30 min].

82. Keenan SW*, Paterson AT, **Niemiller ML**, Slay ME, Clark SA, & Engel AS. Observations of the first stygobiont snail (Hydrobiidae, *Fontigens* sp.) in Tennessee. 17th International Congress of Speleology, Sydney, Australia, July 23–29 [oral 30 min].

81. Gladstone NS*, Slater AG, Carter ET[#], McKinney ML, *Freshour DA*, & **Niemiller ML**. Malacology underground: a review of gastropod diversity in caves of North America and their ecological significance. American Malacological Society 83rd Annual Meeting, Newark, Delaware, July 16–21 [poster].

80. Zhao Y, Fenolio D, Soares D, Gluesenkamp A, **Niemiller ML**, & Chakrabarty P. Beauty underground: cavefishes in China. 5th Astyanax International Meeting 2017, Santiago de Queretaro, Mexico, March 12–14 [oral 30 min].

2016 79. Keenan SW*, Paterson AT, **Niemiller ML**, Slay ME, & Engel AS. The first observation of a stygobiont snail (Hydrobiidae, *Fontigens* sp.) in Tennessee. 2016 National Speleological Society Convention, Ely, Nevada, July 18–22 [oral 15 min].

78. Reynolds RG*, Collar D, Pasachnik S, **Niemiller ML**, Puente-Rolon A, & Revell L. Ecological specialization and morphological diversification in Greater Antillean boas. 2014 Joint Meeting of the Society for the Study of Evolution, Austin, Texas, June 17–21 [oral 15 min].

77. Stephen CDR^{**}, **Niemiller ML**, & Bond JE. Species delimitation and phylogeography of *Hesperochnes* (Pseudoscorpiones: Chernetidae) from karst regions of the southeastern United States. 23rd International Conference on Subterranean Biology, Fayetteville, Arkansas, USA, June 13–17 [oral 15 min].

76. Culver DC, Christman MC, Doctor DH, **Niemiller ML***, Weary DJ, Young JA, & Zigler KS. Predicting the occurrence of cave-inhabiting fauna based on features of the surface environment. 23rd International Conference on Subterranean Biology, Fayetteville, Arkansas, USA, June 13–17 [oral 15 min].
75. Gladstone N*, Carter ET[#], McKinney M, & **Niemiller ML**. Troglotrophic snails of the Interior Low Plateau and Appalachian karst regions. 23rd International Conference on Subterranean Biology, Fayetteville, Arkansas, USA, June 13–17 [poster].
74. Gabriel AE*, Van Den Bussche RA, Brewer SK, Stark R, **Niemiller ML**, & Fenolio DB. Environmental DNA for monitoring and detection of rare and endangered cavefish and cave crayfish in the Ozark Highlands. 23rd International Conference on Subterranean Biology, Fayetteville, Arkansas, USA, June 13–17 [oral 15 min].
73. de Souza LS, Davis MA, **Niemiller ML**, & Larson ER. Environmental DNA (eDNA) at the University of Illinois: A new tool for freshwater conservation and management with demonstration to the Eastern Hellbender. Illinois Water Day, Urbana, Illinois, 8 April [poster].
- 2015 72. Bagley R^{#*}, Sousa V, **Niemiller ML**, & Linnen C. History, geography, and host use shape genome-wide patterns of genetic variation in the redheaded pine sawfly, *Neodiprion lecontei*. 2015 Annual Meeting of the Entomological Society of America, Minneapolis, Minnesota, November 15–18 [oral 20 min].
71. **Niemiller ML***, & Taylor SJ. Genus-wide assessment of *Bactrurus* (Amphipoda: Crangonyctidae) informs conservation and management of groundwater habitats. 21st National Cave and Karst Management Symposium, Cave City, Kentucky, October 19–23 [oral 20 min].
70. Kendall KD, **Niemiller ML***, Engel AS, Zigler KS, & Fenolio DB. Cave biodiversity and conservation teaching and learning module for K-5 students in Tennessee-Alabama-Georgia region. 2015 National Speleological Society Convention, Waynesville, Missouri, July 13–17 [poster].
69. Stephen CDR^{#*}, **Niemiller ML**, & Bond JE. Revision of the Appalachian troglotrophic *Hesperochernes mirabilis* (Pseudoscorpiones: Chernetidae). 2015 National Speleological Society Convention, Waynesville, Missouri, July 13–17 [oral 15 min].
68. Taylor SJ*, **Niemiller ML**, Heske EJ, Merritt JM, McClanahan RD, Kath JA, Miller AN, Yannarell AC, Mateus-Pinilla N, Langwig K, & Hoyt JR. Winter bat population trends in Illinois, USA. 2015 National Speleological Society Convention, Waynesville, Missouri, July 13–17 [oral 15 min].
67. **Niemiller ML**, Zigler KS, Stephen CDR[#], Carter ET[#], Paterson AT, Taylor SJ, Fenolio DB, Kendall KD, & Engel AS*. Updated invertebrate and vertebrate cave records for eastern Tennessee Appalachian Valley and Ridge. 2015 National Speleological Society Convention, Waynesville, Missouri, July 13–17 [oral 15 min].
66. **Niemiller ML***, Culver DC, Zigler KS, Doctor D, Weary D, Young J, & Christman M. Geography of species richness and endemism of the obligate cave fauna of the Interior

Low Plateau and the Appalachian Mountains. 2015 National Speleological Society Convention, Waynesville, Missouri, July 13–17 [oral 15 min].

65. **Niemiller ML***, Zigler KS, Ober K, Stephen CDR[#], & Carter ET[#]. Conservation of rare and endemic carabid cave beetles (Carabidae: *Pseudanophthalmus*) in Tennessee. 2015 National Speleological Society Convention, Waynesville, Missouri, July 13–17 [oral 15 min].

64. **Niemiller ML***, & Taylor SJ. The subterranean fauna of karst regions in Illinois: a review. 51st Annual Meeting of the Illinois Chapter of The Wildlife Society, Champaign, Illinois, April 12–14 [oral 20 min].

2014 63. **Niemiller ML**, Christman MC, Culver DC*, Doctor DH, Pipan T, Weary D, Young J, & Zigler K. Patterns of subterranean biodiversity in the Appalachians and Interior Plateaus of the United States. 22nd International Conference on Subterranean Biology, Juriquilla, Quertaro, Mexico, August 31–September 5 [poster].

62. Reynolds RG*, **Niemiller ML**, & Revell L. The boa and python Tree of Life. 2014 Joint Meeting of Ichthyologists and Herpetologists, Chattanooga, Tennessee, July 29–August 3 [oral 15 min].

61. **Niemiller ML***, Fenolio DB, Glorioso BM, Reynolds RG, & Miller BT. Life history and demography of the Tennessee cave salamander (*Gyrinophilus palleucus*) from the Interior Plateau of central Tennessee. 2014 National Speleological Society Convention, Huntsville, Alabama, July 14–18 [oral 20 min].

60. Reynolds RG*, Pasachnik S, **Niemiller ML**, Puente-Rolon A, & Revell L. Deterministic evolution in Greater Antillean boid snakes: an extension of the Caribbean ecomorph paradigm? 2014 Joint Meeting of the Society for the Study of Evolution, Raleigh, North Carolina, June 20–24 [oral 15 min].

59. **Niemiller ML***, Duong K[#], & Linnen C. Using full-genome sequencing to infer the species tree in *Neodiprion* sawflies (Hymenoptera: Diprionidae). [oral 15 min].

58. Capshaw G[#], **Niemiller ML**, Higgs DM, & Soares D. Environmentally-influenced auditory differences in plethodontid salamanders. 6th Conference on the Biology of Plethodontid Salamanders, Tulsa, Oklahoma, May 18–20 [poster].

57. Fenolio DB*, **Niemiller ML**, Levy M, & Martinez B. Conservation status of the Georgia blind salamander, *Eurycea wallacei*. 6th Conference on the Biology of Plethodontid Salamanders, Tulsa, Oklahoma, May 18–20 [oral 20 min].

56. **Niemiller ML***, Fenolio DB, Glorioso BM, Reynolds RG, & Miller BT. Life history and demography of the Tennessee cave salamander (*Gyrinophilus palleucus*) from the Interior Plateau of central Tennessee. 6th Conference on the Biology of Plethodontid Salamanders, Tulsa, Oklahoma, May 18–20 [oral 20 min].

55. Kendall KD*, **Niemiller ML***, & Rearden K. Amphibian and reptile conservation teaching and learning module for Tennessee elementary schools. Southeast Partners in Amphibian and Reptiles Conservation, Lake Cumberland State Park, Jamestown, Kentucky, February 13–15 [poster].

- 2013
54. Armbruster J*, **Niemiller ML**, & Hart P. Status of the southern cavefish (*Typhlichthys subterraneus*) in Alabama and Tennessee. Southeastern Fishes Council 2013 Annual Meeting, Guntersville, Alabama, November 13–15 [poster].
53. Kendall KD*, **Niemiller ML**, Dittrich-Reed D, & Schussler EE. Undergraduate ratings of instructional behaviors inform graduate teaching assistant professional development. American College and University Biology Educators Meeting, Indianapolis, IN, October 18–19 [oral 20 min].
52. **Niemiller ML***. Subterranean biodiversity in East Tennessee. East Tennessee Grotto, Oak Ridge, TN, October 02 [oral 60 min].
51. **Niemiller ML***, & Zigler KS. The subterranean biodiversity of Tennessee: a brief overview and recent discoveries. 2013 Tennessee Cave Survey Fall Meeting, Cookeville, TN, September 28 [oral 20 min].
50. Kendall KD*, **Niemiller ML***, & Rearden K. Amphibian and reptile conservation teaching and learning module for Tennessee elementary schools. The 19th Annual Tennessee Herpetological Conference, Harrogate, TN, September 26–28 [poster].
49. **Niemiller ML***, Kendall KD, Hedgspeth BA, Fitzpatrick BM, & Hulsey CD. Thermal acclimation responses in escape performance and heat tolerance of a cave crayfish (*Orconectes australis*). 2013 National Speleological Society Convention, Shippenburg, Pennsylvania. August 5–9 [oral 20 min].
48. **Niemiller ML***, Higgs DM, & Soares D. Evidence for hearing loss in amblyopsid cavefishes. 2013 National Speleological Society Convention, Shippenburg, Pennsylvania. August 5–9 [oral 20 min].
- 2012
47. **Niemiller ML***, & Zigler KS. The Tennessee cave life database: over 200 species and counting. 2012 Tennessee Cave Survey Fall Meeting, Cookeville, TN, September 29 [oral 20 min].
46. **Niemiller ML**, Reynolds RG*, & Miller BT. The reptiles of Tennessee. A new book from the University of Tennessee Press. The 18th Annual Tennessee Herpetological Conference, Royal Blue, TN, September 27–29 [oral 20 min].
45. **Niemiller ML***, Zigler KS, & Lewis JJ. The Tennessee cave life database: over 200 species and counting. 2012 National Speleological Society Convention, Lewisburg, West Virginia, June 25–29 [oral 20 min].
44. McCandless JR*, **Niemiller ML**, Reynolds RG, Caddle J, Tillquist CR, Near TJ, Pearson WD, & Fitzpatrick BM. Effects of climatic and geological processes during the Pleistocene on the evolutionary history of the northern cavefish, *Amblyopsis spelaea* (Teleostei: Amblyopsidae). 2012 National Speleological Society Convention, Lewisburg, West Virginia, June 25–29 [oral 20 min].
43. **Niemiller ML***, Fenolio DB, & Miller BT. The importance of caves for plethodontid conservation. Annual Meeting of the Southeast Partners in Amphibian and Reptile Conservation, Fall Creek Falls State Park, Spencer, Tennessee, February 16–19 [oral 15 min].

42. Fenolio DB*, **Niemiller ML**, & Bonett RM. A review of the obligate subterranean caudates of North America with emphasis on new work with the Georgia blind salamander, *Haideotriton wallacei*. Annual Meeting of the Southeast Partners in Amphibian and Reptile Conservation, Fall Creek Falls State Park, Spencer, Tennessee, February 16–19 [oral 15 min].
- 2011 41. **Niemiller ML***, & Reynolds RG. The amphibians of Tennessee. Southern Festival of Books, Nashville, Tennessee, October 14 [oral 30 min].
- 2010 40. **Niemiller ML***, Reynolds RG, Glorioso BM, Spiess J, & Miller BT. Herpetofauna of the cedar glades and associated habitats of the Inner Central Basin of middle Tennessee. The Sixteenth Annual Tennessee Herpetological Conference, Royal Blue, TN, September 30–October 1 [oral 20 min].
39. Reynolds RG*, & **Niemiller ML**. The Amphibians of Tennessee: a new book from the University of Tennessee Press. The Sixteenth Annual Tennessee Herpetological Conference, Royal Blue, TN, September 30–October 1 [oral 20 min].
38. Near TJ*, & **Niemiller ML**. Phylogenetics and diversification of amblyopsid cavefishes (Teleostei: Percopsiformes). 2010 Joint Meeting of Ichthyologists and Herpetologists, Providence, RI July 7–12 [oral 15 min].
- 2009 37. **Niemiller ML***, Osbourn MS, Fenolio DB, Pauley TK, Miller BT, & Holsinger JR. 2009. Status and relative abundance of the West Virginia spring salamander (*Gyrinophilus subterraneus*) from General Davis Cave, Greenbrier Co., West Virginia. 2009 Joint Meeting of Ichthyologists and Herpetologists, Portland, OR, July 22–27 [poster].
- 2008 36. **Niemiller ML***, Fitzpatrick BM, & Miller BT. Recent divergence-with-gene-flow in Tennessee cave salamanders (Plethodontidae: *Gyrinophilus*) inferred from gene genealogies. Evolution 2008 Conference, Minneapolis, MN, June 20–24 [oral 15 min].
35. Miller BT*, & **Niemiller ML**. Distribution and relative abundance of Tennessee cave salamanders. Scholars Week, Middle Tennessee State University, Murfreesboro, TN, March 31–April 4 [poster].
34. Miller BT*, **Niemiller ML**, & Estabrook D. A conservation dilemma in middle Tennessee: the streamside salamander versus suburban sprawl. Scholars Week, Middle Tennessee State University, Murfreesboro, TN, March 31–April 4 [poster].
33. Miller BT*, & **Niemiller ML**. Chronicling life underground: egg-laying behavior and interactions among female red salamanders. Scholars Week, Middle Tennessee State University, Murfreesboro, TN, March 31–April 4 [poster].
- 2007 32. **Niemiller ML***. 2007. Diversity in the dark: systematics and phylogeography of the amblyopsid cavefishes. Seventh Annual Sigma Xi Student Research Conference, Orlando, FL, November 1–4 [oral 20 min].
31. **Niemiller ML***, & Fitzpatrick BM. Diversity in the dark: systematics and phylogeography of the southern cavefish (Amblyopsidae: *Typhlichthys*). 2007 Meeting of Southeastern Population Ecology and Evolutionary Genetics, Townsend, TN, September 21–23 [poster].

- 30. Niemiller ML***. Systematics and historical demography of Tennessee cave salamanders show recent divergence-with-gene-flow from epigeal spring salamanders (Plethodontidae: *Gyrinophilus*). 2007 Joint Meeting of Ichthyologists and Herpetologists, St. Louis, MO, July 11-16 [oral 15 min].
- 29. Niemiller ML***. Cryptic diversity in the dark: systematics and phylogeography of the southern cavefish (Amblyopsidae: *Typhlichthys*). 2007 Joint Meeting of Ichthyologists and Herpetologists, St. Louis, MO, July 11-16 [poster].
- 28. Niemiller ML***. Diversity in the darkness: a preliminary look at the phylogenetics of the southern cavefish (*Typhlichthys subterraneus*). 2007 Tennessee Cave Survey Spring Business Meeting, Sewanee, TN, April 21 [oral 20 min].
- 27. Niemiller ML***. Diversity in the darkness: a preliminary look at the phylogenetics of the southern cavefish. 2007 Tennessee Rare Fish Meeting, Morristown, TN, March 14 [oral 15 min].
- 26. Miller BT***, & **Niemiller ML**. The streamside salamander (*Ambystoma barbouri*) in middle Tennessee: geographically isolated, genetically distinct, and destined for extirpation. 2007 Meeting of the Southeastern Working Group of Partners in Amphibian and Reptile Conservation, Chattanooga, TN, February 22–25 [oral 30 min].
- 25. Niemiller ML***, Fitzpatrick BM, & Miller BT. Systematics and historical demography of Tennessee cave salamanders show recent divergence-with-gene-flow from epigeal spring salamanders (Plethodontidae: *Gyrinophilus*). 2007 Meeting of the Southeastern Working Group of Partners in Amphibian and Reptile Conservation, Chattanooga, TN, February 22–25 [poster].
- 2006 **24. Niemiller ML***. Phylogenetics of the Tennessee cave salamander (*Gyrinophilus pallescens*) complex. 2006 Meeting of Southeastern Population Ecology and Evolutionary Genetics, Greensboro, NC, September 22–24 [oral 15 min].
- 23. Niemiller ML***, & Miller BT. Phylogenetics of the Tennessee cave salamander (*Gyrinophilus pallescens*) complex. The 67th Annual Meeting of the Association of Southeastern Biologists, Gatlinburg, TN, March 29–April 1 [oral 15 min].
- 22. Niemiller ML***, Glorioso BM, & Miller BT. Status and distribution of the streamside salamander, *Ambystoma barbouri*, in middle Tennessee. The 67th Annual Meeting of the Association of Southeastern Biologists, Gatlinburg, TN, March 29–April 1 [poster].
- 2005 **21. Niemiller ML***, Glorioso BM, Nicholas C, Phillips J, Rader J, Reed E, Sykes KL, Todd J, Wyckoff GR, Young EL, & Miller BT. Notes on the reproduction of the streamside salamander, *Ambystoma barbouri*, from Rutherford County, Tennessee. The 115th Meeting of the Tennessee Academy of Science, Martin, TN, November 18 [poster].
- 20. Niemiller ML***, & Miller BT. Molecular systematics of the Tennessee cave salamander complex, *Gyrinophilus pallescens*, based on the mitochondrial 12S rDNA gene. The Eleventh Annual Tennessee Herpetological Conference, Lebanon, TN, September 29–30 [oral 20 min].

19. **Niemiller ML***, & Miller BT. Distribution, relative abundance, and notes on the natural history of the Tennessee cave salamander complex (*Gyrinophilus palleucus*) in Tennessee. 2005 Joint Meeting of Ichthyologists and Herpetologists, Tampa, FL, July 6–11 [oral 15 min].

18. Miller BT*, & **Niemiller ML**. A survey for stream-dwelling hemidactyline salamanders in caves of middle and eastern Tennessee. 2005 Joint Meeting of Ichthyologists and Herpetologists, Tampa, FL, July 6–11 [poster].

17. Todd JM*, **Niemiller M**, & Miller BT. Observations on subterranean aquatic habitat use and early nesting by the southern two-lined salamander (*Eurycea cirrigera*). 2005 Joint Meeting of Ichthyologists and Herpetologists, Tampa, FL, July 6–11 [poster].

16. **Niemiller ML***, & Miller BT. Notes on the distribution and relative abundance of the Tennessee cave salamander (*Gyrinophilus palleucus*) complex in Tennessee. 2005 Tennessee Cave Survey Spring Business Meeting, Sewanee, TN, April 30 [oral 20 min].

15. **Niemiller ML***, & Miller BT. Demography of the Tennessee cave salamander complex (*Gyrinophilus palleucus* and *Gyrinophilus gulolineatus*) in Tennessee. The 66th Annual Meeting of the Association of Southeastern Biologists, Florence, AL, April 13–15 [oral 15 min].

14. Miller BT*, & **Niemiller ML**. Survey for and relative abundance of the Tennessee cave salamander complex, *Gyrinophilus palleucus* and *G. gulolineatus*, in Tennessee. The 66th Annual Meeting of the Association of Southeastern Biologists, Florence, AL, April 13–15 [oral 15 min].

13. Wyckoff GR*, **Niemiller M**, Glorioso B, & Miller BT. Community structure of a complex wetland: chronology of breeding migrations of five ambystomatid salamanders. The 66th Annual Meeting of the Association of Southeastern Biologists, Florence, AL, April 13–15 [oral 15 min].

12. **Niemiller ML***, & Miller BT. Distribution and relative abundance of cave-dwelling salamanders of the genus *Gyrinophilus* in Tennessee. Eleventh Symposium on the Natural History of Lower Tennessee and Cumberland River Valleys, Dover, TN, April 1–2 [oral 15 min].

11. **Niemiller ML***, & Miller BT. Distribution and demography of the Tennessee cave salamander complex (*Gyrinophilus palleucus* and *Gyrinophilus gulolineatus*) in Tennessee. Tennessee Chapter of the Wildlife Society 28th Annual Meeting. Fall Creek Falls State Park, Tennessee, March 16 [oral 15 min].

2004 10. **Niemiller ML***, & Miller BT. Demography of the Tennessee cave salamander (*Gyrinophilus palleucus*) in middle Tennessee. The 114th Meeting of the Tennessee Academy of Science, Columbia, TN, November 19 [oral 15 min].

9. Miller BT*, & **Niemiller ML**. Distribution of the Tennessee cave salamander (*Gyrinophilus palleucus*) in middle Tennessee. The 114th Meeting of the Tennessee Academy of Science, Columbia, TN, November 19 [oral 15 min].

8. Glorioso BM*, **Niemiller ML**, Wyckoff GR, & Miller BT. Demography of two sympatric turtle species from an urban setting in Rutherford County, Tennessee. The 114th Meeting of the Tennessee Academy of Science, Columbia, TN, November 19 [poster].

7. Wyckoff GR*, **Niemiller M**, Glorioso B, & Miller BT. A look into a diverse reptile and amphibian community: in a wetland at Arnold Air Force Base. The 114th Meeting of the Tennessee Academy of Science, Columbia, TN, November 19 [poster].

6. **Niemiller ML***, & Miller BT. Comparative demography of the Tennessee cave salamander (*Gyrinophilus palleucus*) in middle Tennessee. The Tenth Annual Tennessee Herpetological Conference, Maryville, TN, October 7–9 [oral 15 min].

5. Miller BT*, & **Niemiller ML**. Survey for the Tennessee cave salamander, *Gyrinophilus palleucus*, in middle Tennessee. The Tenth Annual Tennessee Herpetological Conference, Maryville, TN, October 7–9 [oral 15 min].

4. **Niemiller ML***, & Miller BT. Identification, habitat, and distribution of the Tennessee cave salamander, *Gyrinophilus palleucus*, in Tennessee. 2004 Tennessee Cave Survey Fall Business Meeting, Cookeville, TN, September 25 [oral 20 min].

3. **Niemiller M***, Wyckoff G*, Koczaja C, McCall L, Fitch E, Glorioso B, Hanna C, Kyzar J, Spiess J, Tolley A, & Mullen D. Size-specific habitat segregation and intraspecific interactions in banded sculpin (*Cottus carolinae*). The 65th Annual Meeting of the Association of Southeastern Biologists, Memphis, TN, April 14–17 [poster].

2003 2. **Niemiller ML***. A survey of the herpetofauna of the Duck River watershed within Coffee County, Tennessee. The 113th Meeting of the Tennessee Academy of Science, Franklin, TN, November 13–15 [poster].

1. **Niemiller ML***. The herpetofauna of the Duck River watershed in Coffee County, Tennessee. The 9th Annual Tennessee Herpetology Conference, Jackson, TN, October 2–4 [oral 15 min].

TEACHING EXPERIENCE:

2021 *Instructor*, Ornithology (BYS 491/691), The University of Alabama in Huntsville.

2020 *Instructor*, Senior Capstone (BYS 490), The University of Alabama in Huntsville.

2018–2020 *Instructor*, Undergraduate Research (BYS 492), The University of Alabama in Huntsville.

2018, 2020 *Instructor*, Community Ecology (BYS 562), The University of Alabama in Huntsville.

2018–2021 *Instructor*, Biogeography (BYS 364), The University of Alabama in Huntsville.

2018–2020 *Instructor*, Introduction to Biological Research (BYS 292), The University of Alabama in Huntsville.

2018–2020 *Instructor*, Principles of Ecology (BYS 312), The University of Alabama in Huntsville.

2018–2021 *Instructor*, Research (BYS 692), The University of Alabama in Huntsville.

2019 *Instructor*, Herpetology (BYS 491 & 691), The University of Alabama in Huntsville.

2019 *Instructor*, Population Biology (BYS 562), The University of Alabama in Huntsville

2018 *Instructor*, Undergraduate Honors Research & Thesis (BYS 499), The University of Alabama in Huntsville.

2017 *Instructor*, Herpetology (IB464), University of Illinois Urbana-Champaign.

2013 *Postdoctoral Teaching Scholar*, Introductory Biology (BIOL 104), Yale University.
 2011 *Teaching Assistant*, Herpetology (EEB 473), University of Tennessee.
 2010–2011 *Teaching Assistant*, Ecology (BIO 250), University of Tennessee.
 2009–2011 *Teaching Assistant*, Comparative Vertebrate Biology (EEB 353), University of Tennessee.
 2007–2010 *Teaching Assistant*, Ichthyology (EEB 474), University of Tennessee.
 2008 *Teaching Assistant*, Evolution (EEB 460), University of Tennessee.
 2007 *Teaching Assistant*, General Biology (BIO 102), University of Tennessee.
 2006, 2011 *Teaching Assistant*, General Biology (BIO 130), University of Tennessee.
 2006 *Teaching Assistant*, General Biology II (BIOL 1120), Middle Tennessee State University.
 2005 *Teaching Assistant*, Ecology (BIOL 4240), Middle Tennessee State University.
 2004–2005 *Teaching Assistant*, General Biology (BIOL 1110), Middle Tennessee State University.
 2003–2004 *Teaching Assistant*, General Biology (BIOL 1030), Middle Tennessee State University.

Guest Lectured:

2017, 2019 Evolution (BYS 464), The University of Alabama in Huntsville.
 2017 Principles of Ecology (BYS 312), The University of Alabama in Huntsville.
 2017 Introduction to Biological Research (BYS 292), The University of Alabama in Huntsville.
 2011 Herpetology (EEB 473), University of Tennessee.
 2009–2010 Comparative Vertebrate Biology (EEB 353), University of Tennessee.
 2007–2010 Amphibian Ecology (WFS 560), University of Tennessee.
 2005 Ecology (BIOL 4240), Middle Tennessee State University.
 2005 Vertebrate Zoology (BIOL 4180), Middle Tennessee State University.
 2005 Comparative Anatomy of Vertebrates (BIOL 3020), Middle Tennessee State University.
 2004 General Biology (BIOL 1110), Middle Tennessee State University.

STUDENTS SUPERVISED:

PH.D:

Current Joseph Benito (UAH)

M.S.:

Graduated Spencer Boyd (UAH, 2019)

Current Amanda Bosserman (UAH)
 Tessa Costley (UAH)
 Katie Dooley (UAH)
 Kayla Wilson (UAH)
 Megan Carter (UAH)

UNDERGRADUATE HONORS THESIS:

Graduated Katie Dooley (UAH, 2019)

GRADUATE STUDENT COMMITTEES:

Current William Coleman (Ph.D., Texas State University, Dept of Biology)
 Alexander J. Hess (Ph.D., University of Tulsa, Dept of Biological Sciences)

Joseph Lamb (M.S., Alabama A & M University, Dept of Biological and Environmental Sciences)

Jonathan Nemati (M.S., Alabama A & M University, Dept. of Biological and Environmental Sciences)

Nathaniel D. Sturm (M.S., University of Alabama, Dept of Biological Sciences)

Athanasios Apostolopoulos, Western Kentucky University, Dept of Biology

2019 Nicholas S. Gladstone (M.S., University of Tennessee, Dept of Earth & Planetary Sciences)

Joshua Mouser (M.S., Oklahoma State University, Dept of Integrative Biology)

PROFESSIONAL SERVICE:

Manuscripts reviewed since 2004 (alphabetical): *Acta Ichthyologica et Piscatoria* (1), *Acta Zoologica Bulgarica* (1), *Acta Zoologica Fennica* (1), *Amphibia-Reptilia* (2), *Aquatic Conservation: Marine and Freshwater Ecosystems* (1), *Biodiversity and Conservation* (3), *Biological Invasions* (3), *Biological Journal of the Linnean Society* (1), *Biology Letters* (1), *BioScience* (1), *BMC Evolutionary Biology* (2), *Conservation Genetics* (1), *Copeia* (1), *Ecography* (1), *Ecological Indicators* (1), *Ecology and Evolution* (1), *Environmental Biology of Fishes* (1), *Evolution* (12), *Freshwater Science* (1), *Gene* (1), *Heredity* (1), *Herpetological Conservation and Biology* (16), *Herpetological Monographs* (1), *Integrative and Comparative Anatomy* (1), *International Journal of Speleology* (4), *Journal of Animal Ecology* (1), *Journal of the Arkansas Academy of Science* (1), *Journal of Biogeography* (1), *Journal of Cave and Karst Studies* (1), *Journal of Fish Biology* (1), *Journal of Heredity* (1), *Journal of Herpetology* (3), *Journal of the Tennessee Academy of Science* (2), *Journal of Tropical Ecology* (1), *Journal of Wildlife Management* (1), *Landscape and Ecological Engineering* (1), *Molecular Biology and Evolution* (1), *Molecular Ecology* (9), *Northeastern Naturalist* (1), *Oecologia* (1), *PeerJ* (1), *PLoS One* (5), *Proceedings of the Royal Society B* (1), *Royal Society Open Science* (1), *Science Advances* (1), *Science of the Total Environment* (1), *Scientific Reports* (1), *Southeastern Naturalist* (1), *Speleobiology Notes* (8), *Subterranean Biology* (5), *Systematic Biology* (1), *The Anthropocene Review* (1), *The Science of Nature* (1), *Tennessee Journal of Herpetology* (1), *Transactions of the Illinois State Academy of Science* (1), *Wetlands* (1), *Zoological Journal of the Linnean Society* (1), *Zootaxa* (1).

PUBLICATION REVIEWER:

2018 U.S. Geological Survey

2018 National Park Service

GRANT PROPOSAL/REPORT REVIEWER:

2017 Kentucky Science & Engineering Foundation

2017 University of Kentucky Press

2016 Texas Comptroller of Public Accountants

2016, 2018 Cave Conservancy of the Virginias

2015 Chilean National Science and Technology Commission

2015 Fonds National de la Recherche Luxembourg

2014 United States Fish & Wildlife Service

2013, 2016 National Science Foundation, Division of Environmental Biology

2013 National Geographic Society

GRANT REVIEW PANEL MEMBER:

2016 Society for the Study of Amphibians and Reptiles, Grants in Herpetology (Field Research)

CONSULTATION:

2019–2021 Expert consultant for species status assessment for U.S. Fish & Wildlife Service

EDITORIAL POSITIONS:

2019–Present *Associate Editor, Southeastern Naturalist* 2019–Present *Associate Editor, Subterranean Biology* 2012–Present *Managing Editor, Speleobiology Notes*

2012–Present *Associate Editor, Herpetological Conservation and Biology*

2017–2020 *Associate Editor, Biological Invasions*

2012 *Editor, Vertebrates Section, Speleobiology Notes*

2006–2012 *Assistant Editor, Herpetological Conservation and Biology*

CONFERENCE/SYMPOSIA ORGANIZER:

2017 *Planning Committee, 2017 National Cave and Karst Management Symposium, 16–20 October 2017, Eureka Springs, Arkansas*

2015–2016 *Organizing Committee, 23rd International Conference on Subterranean Biology, International Society for Subterranean Biology, 13–17 June 2016, Fayetteville, Arkansas*

2007 *Organizing Committee, Southeastern Population Ecology & Evolutionary Genetics Conference, Townsend, Tennessee*

OTHER APPOINTMENTS:

2015–Present *Board of Directors, Subterranean Ecology Institute, Inc.*

2018–2020 *Chief Scientist, Southeastern Cave Conservancy, Inc.*

2016–2018 *Board of Directors, Karst Waters Institute*

2010–2012 *Vice-President, Tennessee Herpetological Society*

2010 *Graduate Student Representative, Dean’s Advisory Board (Department of Ecology & Evolutionary Biology, University of Tennessee) faculty appointed*

2009–2010 *Treasurer, Graduate Researchers in Ecology, Behavior, and Evolution (Department of Ecology & Evolutionary Biology, University of Tennessee)*

2008 *Graduate Student Representative, Website Committee (Department of Ecology & Evolutionary Biology, University of Tennessee)*

2007–2009 *President, Graduate Researchers in Ecology, Behavior, and Evolution (Department of Ecology & Evolutionary Biology, University of Tennessee)*

2005 *Graduate Student Representative, College Student Advisory Board (Department of Biology, Middle Tennessee State University) faculty appointed*

OUTREACH:

2006–2021 Presentations to local school classes and groups (3 per year on average)

2010–2011 *Instructor, Kids U! Vertebrate Zoology 4-7 Rising Course*

(<http://www.outreach.utk.edu/kidsu/>)

- 2009–2011 *Instructor*, Smoky Mountain Field School, Amphibians and Reptiles of Great Smoky Mountains National Park Course (<http://www.outreach.utk.edu/smoky/>)
- 2007–2011 *Instructor*, Kids U! Snakes Alive 4-7 Rising Course (<http://www.outreach.utk.edu/kidsu/>)
- 2009–2011 Presentations for Discover Life in America, Great Smoky Mountains National Park and lead nature hikes (<http://www.dlia.org>)
- 2007–2011 Presentations at Ijams Nature Center, Knoxville, Tennessee, and lead BioBlitz herpetological surveys (<http://www.ijams.org>)

PROFESSIONAL MEMBERSHIPS:

American Society of Ichthyologists and Herpetologists
 Association of Southeastern Biologists
 International Society for Subterranean Biology
 Society for the Study of Amphibians and Reptiles
 Society for the Study of Evolution
 Tennessee Academy of Science (Life member)
 National Speleological Society (#53235; Fellow, Life member)
 National Speleological Society Biology Section
 Southeastern Cave Conservancy (#1379)
 Tennessee Cave Survey (Life member)
 Alabama Cave Survey (Life member)
 Georgia Speleological Survey
 Kentucky Speleological Survey (Life member)
 Missouri Speleological Society
 Tennessee Herpetological Society
 Southeastern Fishes Council
 IUCN Freshwater Fishes Specialist Group
Stygobromus Working Group
 Chinese Cavefish Working Group

POPULAR MEDIA/NEWS COVERAGE:

- 2020 ORNL researcher helps discover new species of cave snail. Oak Ridge Today. John Huotari. 20 April 2020. Available at <https://oakridgetoday.com/2020/04/20/ornl-researcher-helps-discover-new-species-of-cave-snail/> (with Nicholas S. Gladstone, Evin T. Carter, Nathaniel Shoobs, Kathryn Perez, Annette S. Engel)
- 2019 Discovery of an endangered species in a well-known cave raises questions. *The University of Alabama in Huntsville*. Jim Steele. 19 September 2019. Available at <https://www.uah.edu/science/science-news/14236-discovery-of-an-endangered-species-in-a-well-known-cave-raises-questions>
- Researchers capture largest cave salamander in North America. *The Wildlife Society*. Dana Kobilinsky. 8 February 2019. Available at <https://wildlife.org/researchers-capture-largest->

[cave-salamander-in-north-america](#) (with Nicholas S. Gladstone, Evin T. Carter, Lindsey Hayter, & K. Denise Kendall Niemiller)

Record-breaking salamander found in Tennessee. *Sci News*. 28 January 2019. Available at <http://www.sci-news.com/biology/record-breaking-berry-cave-salamander-06853.html> (with Nicholas S. Gladstone, Evin T. Carter, Lindsey Hayter, & K. Denise Kendall Niemiller)

Record-breaking salamander discovered by researchers in Tennessee. *Geek.com*. Stephanie Valera. 26 January 2019. Available at <https://www.geek.com/news/record-breaking-salamander-discovered-by-researchers-in-tennessee-1771638/> (with Nicholas S. Gladstone, Evin T. Carter, Lindsey Hayter, & K. Denise Kendall Niemiller)

Researchers discover record-breaking salamander. *Tennessee Today*. Andrea Schneibel & Will Wells. 25 January 2019. Available at <https://news.utk.edu/2019/01/25/researchers-discover-record-breaking-salamander/> (with Nicholas S. Gladstone, Evin T. Carter, Lindsey Hayter, & K. Denise Kendall Niemiller)

2018 UAH cave ecologist sheds light on subterranean species. *UAH*. Matthew Byrne. 26 April 2018. Available at <https://www.uah.edu/news/research/uah-cave-ecologist-sheds-light-on-subterranean-species>

2017 DC's only endangered species is shy and sightless, but it's having a moment. *Washington Post*. Justin Moyer. 3 August 2017. Available at https://www.washingtonpost.com/local/dcs-only-endangered-species-is-shy-and-sightless-but-its-having-a-moment/2017/08/03/06e1f704-76df-11e7-a8a1-443822fe43a7_story.html?utm_term=.0e74e21c99b0

Spineless creature studied in DC swamp. *Science Daily*. 19 June 2017. Available online at <https://www.sciencedaily.com/releases/2017/06/170619101824.htm>

2014 Indiana's new resident: the Hoosier Cavefish. *Indianapolis Monthly*. Jon R. LaFollette. 19 June 2014. Available online at <http://www.indianapolismonthly.com/circlecitizen/2014/06/19/indiana-hoosier-cavefish-iu-basketball>

New blind cavefish species named after IU Hoosiers. *Indy Star*. Stephanie Wang. 11 June 2014. Available online at <http://www.indystar.com/story/news/education/2014/06/11/new-blind-cavefish-species-named-iu-hoosiers/10301267/>.

Blind Hoosier Cavefish: freshwater species of the week. *National Geographic*. Brian Clark Howard. 30 May 2014. Available online at <http://newswatch.nationalgeographic.com/2014/05/30/blind-hoosier-cavefish-freshwater-species-of-the-week/>.

Hoosier Cavefish: eyeless fish species discovered in Indiana. *Sci-News.com*. 30 May 2014. Available online at <http://www.sci-news.com/biology/science-hoosier-cavefish-eyeless-fish-species-indiana-01955.html>.

- 2013 Blind cave-dwelling fish also hard of hearing. *Science News*. Puneet Kollipara. 27 March 2013. Available online at http://www.sciencenews.org/view/generic/id/349243/description/Blind_cave-dwelling_fish_also_hard_of_hearing
- Blind cavefish are hard of hearing, too. *Science on NBC News*. Joseph Castro. 27 March 2013. Available online at (http://science.nbcnews.com/_news/2013/03/27/17490806-blind-cavefish-are-hard-of-hearing-too?lite)
- 2008 Salamanders formed new species despite interbreeding. *New Scientist*. Bob Holmes. 25 April 2008. Available online at <http://www.newscientist.com/article/dn13780-salamanders-formed-new-species-despite-interbreeding.html>
- Quarry found below ground. *Knoxville News Sentinel*. Morgan Simmons. 28 January 2008. Available online at <http://www.knoxnews.com/news/2008/jan/28/0128cavefish/>
- 2006 Tennessee cave salamander. Episode 1101. *Tennessee's Wild Side*. Originally aired January 2006. Available online at <http://www.tnwildside.org/stories.asp?Episode=1101>. (with Brian T. Miller)
- 2004 In search of the Tennessee cave salamander: MTSU biologist leads study of state amphibian. *Daily News Journal*. pgs. B1 & B5. Erin Edgemon. 19 August 2004. (with Brian T. Miller)
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