

Jon Marshall Davenport, Ph.D.
Curriculum Vitae

Biographical Information

Current Address:

572 Rivers St
Boone, NC 28608
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Professional Appointments

Associate Professor, Appalachian State University, 2022-present

Assistant Professor, Appalachian State University, 2018-2022

Assistant Professor, Southeast Missouri State University, 2014-2018

Affiliate Scientist, Tennessee Aquarium Conservation Institute, 2014-2020

Postdoctoral Research Fellow, University of Montana, OEE and Wildlife Biology, 2011-2014,
Winsor Lowe, advisor

Education

Ph.D., East Carolina University, Biology, 2011, David R. Chalcraft, advisor

M.S., Austin Peay State University, Biology, 2005, A. Floyd Scott, advisor

B.A., Maryville College, Biology, 2003, W. Ben Cash, advisor

Grants and Fellowships (funded unless noted otherwise)

National Science Foundation, Title: RUI: Collaborative Research: Ecological and demographic consequences of climate change-driven phenological shifts along a latitudinal gradient, 2020, \$307,211, co-PI – *not funded but ranked as Low Priority for funding*

Appalachian State University, University Research Council, Title: Trophic Ecology of Southern Appalachian Forest Floor Communities, 2019, **\$4,999.97**, – Funded

National Science Foundation, Title: Using skewed perspectives to evaluate the importance of phenological shifts to species interactions across life stages, 2019, \$668,851, PI – *not funded*

National Geographic Society, Title: Investigation of environmental mercury in wetland communities of the Subarctic. 2019, \$30,000, PI – *not funded*

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Department of Defense, SDERP, Title: Predicting the persistence of salamanders: consequences of phenological shifts for species of management concern on DoD lands, 2017-2021, Co-PI with Katie O'Donnell, Tom Anderson, Britt Ousterhout, Carola Haas, Susan Walls, Tom Gorman, funded for 2.1 million (Appalachian State portion is **\$407,000**)

Tennessee Wildlife Resources Agency, Title: Population status and conservation of the Alligator Snapping turtle, *Macrochelys temminckii*, in western Tennessee, 2016-2018, **\$84,000**, Co-PI with Josh Ennen and Rob Colvin

National Geographic Society, Title: Integrating biotic and abiotic factors to predict adaptive potential of stream communities, 2017, \$50,000, PI with Kristen Cecala and Josh Ennen, – *not funded*

Grants and Research Funding Committee, Southeast Missouri State University, Title: The effects of climate change on size-structured interactions in headwater streams, 2017-2018, \$5,242, PI

National Science Foundation, Title: Preliminary proposal: Shifty Situations: Comparing Changes in the Mean and Variance of Phenology Across Life Stages. 2017, \$350,000, PI with Britt Ousterhout and Tom Anderson, – not invited for full proposal

National Science Foundation, Title: Preliminary proposal: Integrating biotic and abiotic factors to predict adaptive potential of communities, 2017, \$400,000, PI with Kristen Cecala and Josh Ennen, – not invited for full proposal

Grants and Research Funding Committee, Southeast Missouri State University, Title: Estimating population vital rates of Subarctic amphibian populations and the effects of experimental warming and nutrient enrichment on Subarctic wetland food webs, 2016-2017, \$5,916, PI

Churchill Northern Studies Centre, Estimation of population growth and vital rates of wood frogs in subarctic wetlands, 2017, \$3,615, Co-PI

National Science Foundation, Title: Preliminary proposal: Consequences of phenological shifts by salamander predators in temporary pond communities, 2016, \$350,000, PI with Britt Ousterhout and Tom Anderson – not invited for full proposal

National Science Foundation, Title: Preliminary proposal: Evolutionary processes that drive colonization and range expansion: implications for global change biology, 2016, \$270,000, PI with Blake Hossack, Josh Ennen, and LeeAnn Fishback, – not invited for full proposal

Churchill Northern Studies Centre, Estimating vital rates of two pond-breeding amphibians in the Subarctic, 2015, \$1,600, Co-PI

Churchill Northern Studies Centre, Movement ecology of wood frogs along subarctic ecotones near Churchill, Manitoba, 2015, \$1,570, Co-PI

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Grants and Research Funding Committee, Southeast Missouri State University, Title: The effects of experimental warming and wetland drying on subarctic wetland food webs, 2015-2016, \$5,999, PI

National Science Foundation, Title: Preliminary proposal: Evolutionary processes that drive colonization and range expansion: implications for global change biology, 2015-2017, \$150,000, PI with Blake Hossack, Josh Ennen LeeAnn Fishback, and Ben Cash – not invited for full proposal

Grants and Research Funding Committee, Southeast Missouri State University, Title: Climate change and the population status of amphibians in the Canadian Subarctic, 2014-2015, \$6,059, PI

National Geographic Society, Title: Tests of two divergent evolutionary mechanisms that drive colonization: implications for explaining post-glacial expansion and predicting responses to global change, 2014-2015, \$22,000, Co-PI, not funded

Churchill Northern Studies Centre, The impacts of experimental warming and wetland drying on larval amphibians in subarctic wetlands, 2014, \$1,600, Co-PI

Churchill Northern Studies Centre, Movement ecology of wood frogs along subarctic ecotones near Churchill, Manitoba, 2014, \$1,570, Co-PI

National Science Foundation, Title: Coexistence in Stream Metacommunities, 2011-2014, \$380,000, Non Senior Co-PI with Winsor Lowe

- REU supplement, 2014, \$6,250
- REU supplement, 2013, \$6,250
- REU supplement, 2012, \$7,500

Churchill Northern Studies Centre, Competition among larval frogs in subarctic wetland communities near Churchill, Manitoba, 2013, \$1,990, Sole PI

Churchill Northern Studies Centre, Amphibian Population Dynamics at the Edge of the World, 2012, \$1,313, Sole PI

North Carolina Herpetological Society Grant, Title: Evaluating the costs and benefits of predator-and competitor-induced morphological changes of *Ambystoma opacum*, 2009, \$600, Sole PI

Research Fellowship, East Carolina University, responsible for dissertation research. 2005-2007, \$21,500 per academic year

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Peer Reviewed Publications (*undergraduate co-author, **graduate co-author, ***postdoc co-author)

In Press, In Revision or In Review

T.P. Hastings.**, Blake R. Hossack, LeeAnn Fishback, and **J.M. Davenport**. *In Press*. Using physiological conditions to assess current and future habitat use of a Subarctic frog.

T.L. Anderson*** and **J.M. Davenport**. *In Review*. Predicting prey diversity with multiple predator effects

C.L. Cannon* and **J.M. Davenport**. *In Review*. Microgeographic scale population risk determines the adaptive responses of larval salamanders to predator kairomones

2022

Davenport, Jon M., David A. Beamer, Cody Long*, Trent Waltz*, Shelby Wren*, and Dustin S. Siegel. 2022. Reproductive biology and population structure of *Eurycea chamberlaini* in North Carolina. *Ichthyology & Herpetology* 110:728-736.

Kays et al. (huge list of collaborators*). 2022. Snapshot USA 2020: A second coordinated national camera trap survey of the United States during the COVID-19 pandemic. *Ecology* 103:e3775

Stemp**, K.M., T.L. Anderson***, and J.M. Davenport. 2022. Multiple predator effects and functional redundancy of a keystone predator. *Journal of Herpetology* 56:18-26.

2021

Anderson***, T.L., J.J. Burkhart***, and J.M. Davenport. 2021. Asymmetric density-dependent competition and predation between larval salamanders. *Freshwater Biology* 66:1356-1365.

Garig, D.F.**, J.R. Ennen, S.J. Hyder**, T. Simmonds*, A.J. Feltmann*, R. Colvin, J. Denison, L. Pearson**, B.R. Kreiser, S.C. Sweat, and **J.M. Davenport**. Status of the Alligator Snapping Turtle, *Macrochelys temminckii*, in West Tennessee. *Chelonian Conservation and Biology* 20:35-42.

Cragg, S.**, K.K. Cecala, S.M. Fix, J. R. Ennen, and **J.M. Davenport**. 2021. Role of abiotic factors and habitat heterogeneity in the interactions between stream salamanders and crayfish in the southern Appalachians. *Freshwater Science* 40:608-614.

Stemp, K.M.**, T.L. Anderson***, and **J.M. Davenport**. 2021. The effects of intraguild interactions (or lack of) on prey diversity in experimental pond food webs. *Food Webs* 29:e00207.

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Anderson***, T.L., J.J. Burkhart***, and **J.M. Davenport**. 2021. Asymmetric density-dependent competition and predation between larval salamanders. *Freshwater Biology* 66:1356-1365.

Ennen, J.R. , K.K. Cecala, P. Gould**, R. Colvin, J. Dennison, D. Garig**, S. Hyder**, L. Recker,* and **J.M. Davenport**. 2021. Size matters: the influence of trap and mesh size on turtle captures. *Wildlife Society Bulletin* 45:130-137.

Hyder, S.J.**, J.R. Ennen, and **J.M. Davenport**. 2021. Ontogenetic and seasonal shifts in movement and habitat selection of the Alligator Snapping Turtle (*Macrochelys temminckii*). *Amphibia-Reptilia* 42:217-226.

Stemp**, K.M., T.L. Anderson***, and **J.M. Davenport**. 2021. Macro-geographic scale variation of a keystone predator in a common garden environment. *Population Ecology* 63:5-13

Kirsch*, D.R., S. Mitchell, **J.M. Davenport**, K.K. Cecala, and J.R. Ennen. 2021. Body size is related to temperature preference in *Hyla chrysoscelis* tadpoles. *Journal of Herpetology* 55:21-25

Smalling, K.L. et al. 2021. Metal accumulation varies with life history, size, and development of larval amphibians. *Environmental Pollution* 287:117638.

2020

Davenport, J.M., LA. Fishback, and B.R. Hossack. 2020. Effects of experimental warming and simulated goose enrichment on wetland communities at the Arctic's edge. *Hydrobiologia* 847:3677-3690.

Cecala, K.K., E.H. Walker*, J.R. Ennen, S.M. Mitchell, and **J.M. Davenport**. 2020. Seasonal variation in the strength of interference competition among headwater stream predators. *Freshwater Biology* 65:1440-1449.

Waddle, H. et al. (12th of 38 co-authors) 2020. *Batrachochytrium salamandrivorans* (Bsal) not detected in an intensive survey of North American amphibians. *Scientific Reports* 10:13012

Anderson***, T.L., K.M. Stemp, and **J.M. Davenport**. 2020. Functional responses of Larval Marbled Salamanders (*Ambystoma opacum*) and Adult Lesser Siren (*Siren intermedia*) on anuran tadpole prey. *Copeia* 108:341-346.

Garig, D.F.**, J.R. Ennen, and **J.M. Davenport**. 2020. The legacy effects of a transient apex predator in a freshwater food web. *Copeia* 108:132-139.

Davenport, J.M., A.B. King*, A. Riley*, M.E. Hampson*, and P. Constantinides*. 2020. The non-consumptive effects of predators and personality on prey growth and mortality. *Ethology* 126:363-371.

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Anderson***, T.L., K.M. Stemp, B.H. Ousterhout, D. Burton**, and **J.M. Davenport**. 2020. Impacts of phenological variability in a predatory salamander on pond food webs. *Journal of Zoology* 310:95-105.

2019

Addis**, B., B. Tobalske, **J.M. Davenport**, and W.H. Lowe. 2019. A distance-performance trade-off in the phenotypic basis of dispersal. *Ecology and Evolution* 9:10644-10653.

2018

Hoffacker, M.L.*, K.K. Cecala, J.R. Ennen, S. Mitchell, and **J.M. Davenport**. 2018. Interspecific interactions are conditional on temperature in an Appalachian stream salamander community. *Oecologia* 188:623-631

Davenport, J.M. and W.H. Lowe. 2018. Testing for microgeographic effects on the strength of interspecific competition. *Copeia* 106:501-506

Lowe, W.H., B. Addis**, M. Smith*, and **J.M. Davenport**. 2018. The structure of individual variation in a headwater stream network. *Freshwater Biology* 63:1287-1299

S.C. Bishir**, B. R. Hossack, LA. Fishback, and **J.M. Davenport**. 2018. Post-breeding movement and habitat use by Wood Frogs along an Arctic–Subarctic ecotone. *Arctic, Antarctic, and Alpine Research* 50:e1487657

2017

Cecala, K.K., **J.M. Davenport**, J.R. Ennen, and W. Fields. 2017. Chapter 23: Amphibians and Reptiles in *Methods in Stream Ecology*, R. Hauer and G.A Lamberti (eds). Academic Press.

Liles*, LA, Cecala, K.K, Ennen, J.R., and **J.M. Davenport**. 2017. Elevated temperatures alter body condition and competitive outcomes in Appalachian salamanders. *Animal Conservation* 20:502-510.

Davenport, J.M., M.E. Hampson*, A.B. King*, and S.C. Bishir.** 2017. The effects of bluegill on spotted salamander oviposition, hatching time, and larval survival. *Amphibia-Reptilia* 38:327-337.

Davenport, J.M. and A. Riley*. 2017. Inter-Kingdom competition: Carnivorous plants affect growth of an aquatic vertebrate. *Journal of Animal Ecology* 86:484-489.

Davenport, J.M., B. R. Hossack, and LA. Fishback. 2017. Additive climate change effects increase risk to an amphibian at the Arctic's edge. *Global Change Biology* 23:2262-2271.

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Mitchell, S.M, J.R. Ennen, K.K. Cecala, and **J.M. Davenport**. 2017. Ex-situ PIT-tag retention study in two *Desmognathus* species. *Herpetological Review* 48:3113-3115.

2016

Chambert, T., B.R. Hossack, L.A. Fishback, and **J.M. Davenport**. 2016. Estimating abundance in the presence of species uncertainty. *Methods in Ecology and Evolution* 7:1041-1049.

Davenport, J.M., P.K. Seivert**, L.B. Fishback and W.B. Cash. 2016. The interactive effects of predation and intraspecific competition on larval anurans in a subarctic wetland. *Copeia* 104:639-644.

Davenport, J.M., and B.R. Hossack. 2016. Re-evaluating geographic variation in life-history traits of a widespread Nearctic amphibian. *Journal of Zoology* 299:304-310.

Ennen, J.R., **J.M. Davenport**, and K.F. Alford. 2016. Interspecific competition among headwater stream vertebrates. *Hydrobiologia* 772:207-213.

Davenport, J.M. and W.H. Lowe. 2016. Dispersal structures intraspecific competition in a stream salamander system. *Journal of Zoology* 298:46-53.

2015

Deitchler, E.*, **J.M. Davenport**, W.H. Lowe. 2015. Homing behavior of the spring salamander, *Gyrinophilus porphyriticus*, in a northeastern U.S. headwater stream. *Herpetological Conservation and Biology* 10:235-241.

2014

Davenport, J.M., B.R. Hossack and W.H. Lowe. 2014. Partitioning the non-consumptive effects of predators on prey with complex life histories. *Oecologia* 176:149-155.

Davenport, J.M. and D.R. Chalcraft. 2014. Increasing conspecific density weakens the ability of intermediate predators to develop induced morphological defenses to top predators. *Freshwater Biology* 59:87-99.

2013

Davenport, J.M., P.K. Seivert**, L.B. Fishback and W.B. Cash. 2013. The effects of two fish predators on *Lithobates sylvaticus* tadpoles in a subarctic pond: Hudson Bay Lowlands, Canada. *Canadian Journal of Zoology* 91:866-871.

Davenport, J.M. and D.R. Chalcraft. 2013. Non-consumptive effects in a multiple predator system reduce the foraging efficiency of a keystone predator. *Ecology and Evolution* 3:3063-3072.

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2012

Davenport, J.M. and D.R. Chalcraft. 2012. Disentangling an intraguild food web: influence of intraguild members on intermediate predators. *Journal of Animal Ecology* 81:242-250.

2010

Davenport, J.M. and K. Summers. 2010. Environmental influences on egg and clutch size in lentic- and lotic-breeding salamanders. *Phyllomedusa* 9:87-98.

2009

Davenport, J.M. and A.F. Scott. 2009. Amphibians and reptiles Fort Donelson National Battlefield, Stewart County, Tennessee. *Journal of the Tennessee Academy of Science* 84:83-89.

Natural history notes and publications

Davenport, J.M. and D.S. Siegel. 2015. *Hyla cinerea* Geographic Distribution. *Herpetological Review* 46:378.

Mondelli, M.*, **J.M. Davenport**, W.H. Lowe. 2014. *Gyrinophilus porphyriticus* Diet: fish versus fishless headwater streams. *Herpetological Review* 45:109-110.

Braswell, A., D. L. Stephan, **J. M. Davenport**, D A. Beamer and T. N. Rogers. 2007. *Ambystoma mabeei* Diet. *Herpetological Review*. 38:173.

Davenport, J.M., J.R. Ennen, and W.M. Thurman. 2006. *Ambystoma opacum* Geographic Distribution. *Herpetological Review* 37:481-482.

Davenport, J.M., J.R. Ennen, and W.M. Thurman. 2006. *Pseudotriton ruber* Geographic Distribution. *Herpetological Review* 37:484.

Thurman, W.M., J.R. Ennen, and **J.M. Davenport**. 2006. *Desmognathus fuscus* Geographic Distribution. *Herpetological Review* 37:482.

Thurman, W.M., J.R. Ennen, and **J.M. Davenport**. 2006. *Eurycea cirrigera* Geographic Distribution. *Herpetological Review* 37:483.

Ennen, J.R., **J.M. Davenport**, and W.M. Thurman. 2006. *Ambystoma maculatum* Geographic Distribution. *Herpetological Review* 37:481.

Ennen, J.R., **J.M. Davenport**, and W.M. Thurman. 2006. *Eurycea lucifuga* Geographic Distribution. *Herpetological Review* 37:483-484.

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Thurman, W.M., J.R. Ennen, and **J.M. Davenport**. 2006. *Rana sylvatica* Geographic Distribution. Herpetological Review 37:490.

Davenport, J.M., J.R. Ennen, and A.F. Scott. 2004. New Records for Amphibians from Counties in South-Central Tennessee. Herpetological Review 36:209-210.

Teaching Experience

Appalachian State University, 2018-present

- General Ecology labs
- Current Topics in Ecology and Evolution
- Biological Concepts II
- Wildlife Biology
- Arctic Field Ecology
- Global Change Ecology

Southeast Missouri State University, 2014-2018

- Ecology and Management of Wetlands
- General Ecology
- Conservation Biology
- Biological Reasoning (majors and non-majors)
- Management of Wildlife Populations
- Arctic Ecology
- Evolution and Ecology
- Field Herpetology
- Career Development in Biology
- Invasive Species Seminar
- Biology of Plethodontid Salamanders

Maryville College, Visiting Assistant Professor, Summer 2011

- Conservation Biology for majors and non-majors
- Environmental Science and Policy for non-majors

East Carolina University, Visiting Faculty Instructor of Biology, 2010-2011

- General Biology for non-majors

East Carolina University, Guest Lecturer in Ecology, Fall 2007, 2008, 2009

East Carolina University, Guest Lecturer in Zoology, Spring 2007, 2008

Austin Peay State University, Teaching Assistant for Ecology, Spring 2005

Mentoring Experience ***honors thesis**

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Undergraduate mentor, Appalachian State University, 2018-present

- Kabryn Mattison* – Food web dynamics in Subarctic wetlands and Appalachian headwater streams
- Jacob Morse – Temporal partitioning of foraging behavior among *Plethodon* salamanders
- Alex Delturco – Effects of phenology and warming on spotted salamander larvae
- Elijah Thompson – Surveys of high-elevation ponds at Pond Mountain Game Lands
- Jay Holladay – Surveys of high-elevation ponds at Pond Mountain Game Lands
- Zack Vegso* – Morphometrics of western NC plethodontid salamanders using the ASU vertebrate collection
- Logan Suchniak – Dispersal of aquatic invertebrates in the face of predation risk
- Ali Montazeri – Colonization of aquatic invertebrates in the face of predation risk
- Katherine Sutcliffe – Delayed phenology effects on wood frog survival
- Deanna Riente – Delayed phenology effects on wood frog tadpole performance
- Seth Drake* – Effects of flow variability on Creek Chub growth and survival
- Haley Towne – Effects of hydroperiod and predator variability on larval spotted salamander growth and survival
- Justus Hargett – Effects of hydroperiod and population source on larval spotted salamander growth and survival
- Tori Amick – Effects of population source and hydroperiod on larval wood frog growth and survival
- Jacob Morse – Temporal partitioning of Plethodontid salamanders in western NC
- Autumn Grosbeck – Salamander abundance in relation to forest productivity
- Danielle Buchanan – Larval wood frog thermal performance

Graduate mentor, Appalachian State University, 2018-present

- Thomas Hastings – Overwintering ecology of Subarctic wood frogs
- Susan Cragg – Stream salamander demography in Southern Appalachian streams
- David Burton – Prey phenology shifts and the implications for predator-prey interactions in experimental pond communities – Dismissed from lab
- Elizabeth Morgan – Effects of leaf litter on pond communities – Left the program
- Alan Babineau – *Plethodon yonahlossee* demography and species interactions
- Elyssa Winterton – Interactions among smaller *Plethodon* salamanders
- Hailey Shoptaugh – Effects of turtles on experimental pond ecosystems
- Sara Faw – Occupancy of headwater stream vertebrates of the southern Appalachians
- Anna Brichetto – Effects of population and pond drying on wood frog tadpoles
- Reese Sloan – Wood frog phenology shifts and impacts to freshwater communities
- Rosie Ronca – Abiotic and biotic parameters affecting *Plethodon welleri*

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Undergraduate mentor, Southeast Missouri State University, 2014-2018

- Bryce Baker – Morphological variation in *Ambystoma talpoideum* larvae and pedomorphs
- Trey Recker – Occupancy of three freshwater turtles in modified habitats of West Tennessee
- Taylor Simmonds – The effect of Siren and larval dragonflies on a native amphibian assemblage in Missouri
- Nathan Sullivan – Wood frog reproduction in Churchill Manitoba
- Dani Kirsch—The conflicting demands of resource competition and predation risk in aquatic ecosystems
- Joseph Bumpus – The effects of salamander morphology on dispersal
- Christopher Cannon – Local adaptation of larval amphibians to multiple predators
- Andrew Feltmann-- Wood frog reproductive output comparisons across 3 different subarctic wetland communities
- Alex Riley—The effects of *Utricularia* on fish growth and zooplankton communities
- Maria Hampson – Predation risk and size refuges: fish predation on larval *Ambystoma* salamanders
- Caitlin Weible – The effects of beavers on non-game animals and plants
- Yvonne Williamson – A review of the effects of fish on amphibian prey populations
- Michael Frangello – Wood frog reproductive output comparisons across 3 different subarctic wetland communities
- Holly Midriff – The influence of personality on species interaction in temporary pond communities
- Peter Constantitides – The effects of vertebrate competitors on *Utricularia* growth and flowering
- Alexis King –The influence of personality on species interaction in temporary pond communities
- Maria Hampson – The effects of prey population source on predator-prey interactions
- Elizabeth Grace – The effects of Triclosan on tadpole survival and growth

Graduate mentor, Southeast Missouri State University, 2015-2018

- Stephanie Bishir – Movement ecology of subarctic wood frogs
- Dustin Garig – Population ecology of Alligator Snapping turtles in West TN
- Kenzi Stemp – Keystone effects and functional redundancy of multiple larval *Ambystoma* predators on tadpole communities.
- Lora Dirnberger – The effects of game management on non-game animals
- Saidee Hyder – Movement ecology of a re-introduced Alligator Snapping Turtle population
- Thomas Hastings – Overwintering ecology of Subarctic wood frogs
- Susan Cragg – Stream salamander demography in Southern Appalachian streams

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- Kayli Thomas – Effects of phenological shifts in salamanders on zooplankton communities

Research for Undergraduate Experience (REU) mentor, University of Montana, Summer 2014

- Jessica Hernandez – The influence of individual personality on homing behavior in Spring salamanders
- Tiffany Lutz – The non-consumptive effects of native and non-native fish on Spring salamanders activity and feeding behavior

Research for Undergraduate Experience (REU) mentor, University of Montana, Summer 2013

- Margaret Smith – Dispersal and population biology of Brook Trout
- Seth Lutter – Consumptive and non-consumptive effects of Spring salamanders on Two-lined salamander behavior and survival

Research for Undergraduate Experience (REU) mentor, University of Montana, Summer 2012

- Emily Deitchler - Homing Behavior of Spring Salamanders
- Megan Mondelli – Feeding Ecology of Spring Salamanders in Fish vs. Fishless Streams

Undergraduate Mentoring, East Carolina University, 2008 -2009

- Jennifer Moore
- Daniel Williams
- James Cottam

Undergraduate mentoring, Austin Peay State University, Spring 2004-2005

- Nathan Parker
- Josh Maloney

Selected Presentations/Published Abstracts (*undergraduate, **graduate co-author, ***postdoc)

Alan Babineau** and Jon Davenport. Role of Interspecific Competition in Spatial Distribution of Two Montane Salamanders. Association of Southeastern Biologists Annual Meeting, 2021, Virtual.

Seth Drake*, Kristen Cecala, Shawna Fix, Joshua Ennen, and Jon Davenport. “Winners” among flow mediated interspecific interactions of headwater stream vertebrates. Association of Southeastern Biologists Annual Meeting, 2021, Virtual.

Justus M. Hargett*, Jay S. Holladay*, Susan L. Cragg**, Kenzi Stemp, Katy M. Sutcliffe*, Zack T. Vegso*, Joshua R. Ennen, Kristen K. Cecala, and Jon M. Davenport. Seining for stream salamanders: Season and site matters but not time of day. Association of Southeastern Biologists Annual Meeting, 2021, Virtual.

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Logan Suchniak*, Ali Montazeri*, Robert P. Creed, and Jon M. Davenport. The effects of detritivores on leaf litter breakdown in experimental ponds. Association of Southeastern Biologists Annual Meeting, 2021, Virtual.

Zachary Vegso* and Jon Davenport. 2020. A re-examination of body size reduction in *Plethodon yonahlossee*. Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation, 2020, Nauvoo, AL.

Multiple presentations were planned for the Association of Southeastern Biologists Annual Meeting, 2020, Jacksonville, FL. The meeting was cancelled.

Thomas Anderson***, Britt Ousterhout, Kenzi Stemp, Jake Burkhart***, David Burton**, and Jon M. Davenport. Impacts influencing phenological variability on salamander demography and pond community dynamics. Ecological Society of America Meeting, 2019, Louisville, KY.

Jacob Burkhart***, Thomas Anderson***, and Jon M. Davenport. Influence of emigration phenology on juvenile salamander growth and survival rates. Ecological Society of America Meeting, 2019, Louisville, KY.

Jon Davenport, Kenzi Stemp, and Thomas Anderson***. Macro-ecological scale geographic variation of a keystone predator in a common garden experiment. Ecological Society of America Meeting, 2019, Louisville, KY.

Susan Cragg**, Kristen Cecala, Joshua Ennen, and Jon Davenport. Competitive interactions among stream salamanders and crayfish in southern Appalachian Mountains. Ecological Society of America Meeting, 2019, Louisville, KY.

Kabyrn Mattison*, Kenzi Stemp, and Jon M. Davenport. *Siren intermedia* colonization of a recently constructed wetland. Ecological Society of America Meeting, 2019, Louisville, KY.

Thomas Hastings**, LeeAnn Fishback, and Jon M. Davenport. Using physiological conditions to assess patterns of Subarctic wood frog (*Rana sylvatica*) habitat suitability. Association of Southeastern Biologists Meeting, 2019, Memphis, TN.

Kenzi Stemp, Thomas Anderson, and Jon M. Davenport. Macro-ecological scale geographic variation of a keystone predator in a common garden experiment. Association of Southeastern Biologists Meeting, 2019, Memphis, TN.

Kabyrn Mattison*, Kenzi Stemp, and Jon M. Davenport. *Siren intermedia* colonization of a recently constructed wetland. Association of Southeastern Biologists Meeting, 2019, Memphis, TN.

David Burton**, Tom Anderson***, Britt Ousterhout, Jake Burkhart***, and Jon M. Davenport. The relationship between zooplankton assemblages and predatory salamanders in ponds of the central Ozarks, Missouri. Association of Southeastern Biologists Meeting, 2019, Memphis, TN.

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Elijah Thompson*, Haley Towne*, Katherine Sutcliffe*, Kenzi Stemp, Britt Ousterhout, Tom Anderson***, Jake Burkhart***, and Jon M. Davenport. Using trail cameras to monitor seasonal migrations of two pond-breeding salamander species. Association of Southeastern Biologists Meeting, 2019, Memphis, TN.

Susan Cragg**, Kristen Cecala, Joshua Ennen, and Jon Davenport. Competitive interactions among stream salamanders and crayfish in southern Appalachian Mountains. Association of Southeastern Biologists Meeting, 2019, Memphis, TN.

Thomas Anderson***, Britt Ousterhout, Dana Drake, William Peterman, Freya Rowland, and Jon Davenport. The impact of climate variability on body size variation in larval salamanders. Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation, 2019, Black Mountain, NC.

Eli Walker*, Kristen Cecala, Josh Ennen, and Jon M. Davenport. Exploring mechanisms regulating interspecific interactions in headwater vertebrate communities. Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation, 2019, Black Mountain, NC.

Kabyrn Mattison*, Kenzi Stemp, and Jon M. Davenport. *Siren intermedia* colonization of a recently constructed wetland. Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation, 2019, Black Mountain, NC.

Kenzi Stemp, Tom Anderson***, Jake Burkhart***, and Jon M. Davenport. Using trail cameras to monitor seasonal migrations of two pond-breeding salamander species. Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation, 2019, Black Mountain, NC.

Jon M. Davenport, Lewis Recker*, Kristen Cecala, Saidee Hyder**, Joshua Ennen, Dustin Garig**, Rob Colvin, and Jeremy Dennison. Annual Meeting of the Southeastern Partners in Amphibian and Reptile Conservation, 2019, Black Mountain, NC.

Bryce Baker*, Dustin Siegel, and Jon Davenport. Geographic variation in morphological traits of larval and paedomorphic *Ambystoma talpoideum*. Joint Meeting of Ichthyologists and Herpetologists, 2018, Rochester, NY.

Kenzi Stemp**, Tom Anderson***, and Jon Davenport. Food web ecology and keystone effects of an endemic pond-breeding salamander. Joint Meeting of Ichthyologists and Herpetologists, 2018, Rochester, NY.

Saidee Hyder**, Joshua Ennen, and Jon M. Davenport. Preliminary assessment of movement ecology in a west Tennessee population of Alligator Snapping Turtles (*Macrochelys temminckii*). Joint Meeting of Ichthyologists and Herpetologists, 2018, Rochester, NY.

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Danielle Kirsch*, Thomas Hastings**, and Jon Davenport. Indirect effects of inter-Kingdom competition and predator cues on an aquatic vertebrate. Association of Southeastern Biologists Meeting, 2018, Myrtle Beach, SC.

Chris Cannon* and Jon Davenport. Phenotypic responses of larval spotted salamander to natural and introduced predator kairomones. Association of Southeastern Biologists Meeting, 2018, Myrtle Beach, SC.

Kenzi Stemp**, Tom Anderson, and Jon Davenport. Food web ecology and keystone effects of an endemic pond-breeding salamander. Association of Southeastern Biologists Meeting, 2018, Myrtle Beach, SC.

Lewis Recker*, Kristen Cecala, Saidee Hyder**, Joshua Ennen, Dustin Garig**, Rob Colvin, Jeremy Dennison, and Jon M. Davenport. Alligator Snapping Turtles (*Macrochelys temminckii*): Where are they now in western Tennessee? Association of Southeastern Biologists Meeting, 2018, Myrtle Beach, SC.

Taylor Simmonds*, Saidee Hyder**, Madison Herrboldt*, Caitlin Weible*, Dustin Garig**, Andrew Feltmann*, Rob Colvin, Jeremy Dennison, Rebecka Brasso, Joshua Ennen, and Jon M. Davenport. Preliminary investigation of mercury concentrations in two freshwater turtle species of West Tennessee. Association of Southeastern Biologists Meeting, 2018, Myrtle Beach, SC.

Dustin Garig**, Joshua Ennen, and Jon M. Davenport. The legacy effects of a transient apex predator in a freshwater food web. Association of Southeastern Biologists Meeting, 2018, Myrtle Beach, SC.

Saidee Hyder**, Joshua Ennen, and Jon M. Davenport. Preliminary assessment of movement ecology in a west Tennessee population of Alligator Snapping Turtles (*Macrochelys temminckii*). Association of Southeastern Biologists Meeting, 2018, Myrtle Beach, SC

Jon M. Davenport, Alex. W. Riley*, and Peter Constantides*. Plants vs. salamanders: the effects of competition on spotted salamander and bladderwort life history. Association of Southeastern Biologists Meeting, 2018, Myrtle Beach, SC

Tom Anderson, Kenzi Stemp**, and Jon Davenport. Functional redundancy between predatory larval salamanders in pond food webs. Gordon Conference, January 2018, Sonoma, CA.

Saidee Hyder**, Joshua Ennen, Dustin Garig**, Rob Colvin, Jeremy Dennison, Andrew Feltmann*, Madison Herrboldt*, Caitlin Weible*, Taylor Simmonds*, and Jon M. Davenport. Preliminary results from Alligator Snapping Turtle (*Macrochelys temminckii*) surveys in two west Tennessee river drainages. Annual Meeting of the Tennessee Herpetological Society, 2017, Murfreesboro, TN

Taylor Simmonds*, Saidee Hyder**, Madison Herrboldt*, Caitlin Weible*, Dustin Garig**, Andrew Feltmann*, Rob Colvin, Jeremy Dennison, Rebecka Brasso, Joshua Ennen, and Jon M.

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Davenport. Preliminary investigation of mercury concentrations in two freshwater turtle species of West Tennessee. Annual Meeting of the Tennessee Herpetological Society, 2017, Murfreesboro, TN

Jon M. Davenport, Alex. W. Riley*, and Peter Constantides*. Plants vs. salamanders: the effects of competition on spotted salamander and bladderwort life history. Joint Meeting of Ichthyologists and Herpetologists, 2017, Austin, TX.

Madison Herrboldt*, Caitlin Weible*, Dustin Garig**, Joshua Ennen, Jon M. Davenport, Rebecka Brasso. Freshwater turtles as biomonitors of mercury availability in aquatic ecosystems of western Tennessee. 13th International conference on Mercury as a Global Pollutant, 2017, Providence, RI

Stephanie C. Bishir, Jon M. Davenport, Blake .A. Hossack and LeeAnn Fishback. Post-breeding movements of the wood frog (*Rana sylvatica*) in an Arctic-Subarctic ecotone. Parks Canada-Arctic Conference, 2016, Winnipeg, MB

Jon M. Davenport, Blake .A. Hossack and LeeAnn Fishback. Additive climate change effects increase risk to an amphibian at the Arctic's edge. Annual Meeting of the Tennessee Herpetological Society, 2016, Knoxville, TN

Madison Herrboldt*, Caitlin Weible*, Andrew Feltmann*, Rebecka Brasso, Joshua Ennen, and Jon M. Davenport. Mercury concentrations in three freshwater turtle species of West Tennessee. Annual Meeting of the Tennessee Herpetological Society, 2016, Knoxville, TN

Dustin Garig**, Jon M. Davenport, Rob Colvin, Joshua Ennen. Preliminary survey of two west Tennessee river drainages results in two populations of the Alligator Snapping Turtle (*Macrochelys temminckii*). Annual Meeting of the Tennessee Herpetological Society, 2016, Knoxville, TN

Jon M. Davenport, Blake .A. Hossack and LeeAnn Fishback. Additive climate change effects increase risk to an amphibian at the Arctic's edge. Annual Meeting of the Missouri Herpetological Association, 2016, Kirbyville, MO

Joshua R. Ennen, Dustin Garig, Madison Herrboldt, Rob Colvin, Jeremy Dennison, and Jon M. Davenport. Preliminary results from two Alligator Snapping turtle (*Macrochelys temminckii*) projects in west TN, Annual meeting of the Turtle Survival Alliance, 2016, New Orleans, LA

Jon M. Davenport, Jessica Hernandez* and Winsor.H. Lowe. Gyrinophilus personality could matter for dispersal and interactions with Brook Trout. Highlands Plethodontid Salamander Conference, 2016, Highlands, NC.

Jon M. Davenport, Blake .A. Hossack and LeeAnn Fishback. Additive climate change effects increase risk to an amphibian at the Arctic's edge. Joint Meeting of Ichthyologists and Herpetologists, 2016, New Orleans, LA.

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Stephanie Bishir,** Blake R. Hossack, and Jon M. Davenport. Movement ecology of wood frogs along a Subarctic ecotone. Central Ecology and Evolution Conference 2016, Norman, OK

Jon M. Davenport, Joshua R. Ennen, and Kathlina.F. Alford. Interspecific competition among headwater stream vertebrates. TN Herpetological Society Meeting, 2015, Savannah, TN

Jon M. Davenport, Blake R. Hossack, and LA.Fishback. Additive climate change effects increase risk to an amphibian at the Arctic's edge. Invited presentation, Ecological Society of America Meeting, 2015, Baltimore, MD.

Alexis B. King*, Jon M. Davenport, and Blake R. Hossack. Re-interpreting geographic variation in the wood frog, *Rana sylvatica*. Association of Southeastern Biologists Meeting, 2015, Chattanooga, TN.

Tiffany N. Lutz*, Jon M. Davenport, and Winsor H. Lowe. Competitive effects of native and nonnative fish on larval salamander behavior and growth. Association of Southeastern Biologists Meeting, 2015, Chattanooga, TN.

Jon M. Davenport, LeeAnn Fishback, Phillip A. Seiwert **, and W. Ben Cash. The interactive effects of predation and intraspecific competition on larval anurans in a subarctic wetland. Arctic Change 2014, Ottawa, Canada.

Jon M. Davenport, Blake .A. Hossack and Winsor.H. Lowe. Partitioning the non-consumptive effects of predators on prey with complex life histories. Joint Meeting of Ichthyologists and Herpetologists, 2014, Chattanooga, TN.

Margaret Smith*, Jon M. Davenport and Winsor H. Lowe. A preliminary investigation of mesohabitat preferences by Brook Trout (*Salvelinus fontinalis*) in northeastern U.S. headwater streams. Southeastern Ecology and Evolution Conference, 2014, Statesboro, GA.

Jon M. Davenport and Winsor H. Lowe. A metacommunity of one: movement behavior structures intraspecific competition in a stream salamander.

- Hubbard Brook Cooperators meeting, 2013, Thornton, NH
- Ecological Society of America meeting, 2013, Minneapolis, MN

Emily Deitchler*, Jon M. Davenport, and Winsor H. Lowe. Homing behavior of the spring salamander, *Gyrinophilus porphyriticus*, in a northeastern headwater stream. National Conference on Undergraduate Research meeting, 2013, LaCrosse, WI

Amanda K. Winegardner**, Jon M. Davenport, Lee Ann A. Fishback, and W. Benjamin Cash. Picky eaters: regulation of Subarctic zooplankton by aquatic predators. International Polar Year meeting, 2012, Montreal, Canada

Jon Marshall Davenport, Ph.D.
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Jon M. Davenport and David R. Chalcraft, Contrasting effects of different types of habitat complexity on predator-prey interactions, Ecological Society of American Meeting, 2010, Pittsburgh, PA.

Jon M. Davenport and David R. Chalcraft, Different kinds of habitat complexity alter predator-prey interactions in different ways.

- Association of Southeastern Biologists Meeting, 2010, Asheville, NC.
- North Carolina Herpetological Society Meeting, 2010, Jefferson, NC.
- ECU Research Week, 2011, Greenville, NC

Jon M. Davenport and David R. Chalcraft. Larval dragonflies scare the shape out of larval salamanders.

- Ecological Society of America Meeting, 2009, Albuquerque, NM.
- East Carolina University Research Week, 2009, Greenville, NC.
- Association of Southeastern Biologists Meeting, 2009, Birmingham, AL.
- North Carolina Herpetological Society Meeting, 2009, Albemarle, NC.

Jon M. Davenport and David R. Chalcraft, The influence of alternative prey on interactions among intraguild predators.

- Southeastern Ecology and Evolution Conference, 2008, Tallahassee, FL.
- Ecological Society of America Meeting, 2008, Milwaukee, WI.

Jon M. Davenport, David A. Beamer, and David R. Chalcraft, Predicting the geographic distribution of *Ambystoma mabeei* using an ecological niche model. Joint Meeting of Ichthyologists and Herpetologists, 2006, New Orleans, LA.

W. Ben Cash, Jay Clark, Frank van Manen, Jessica Daniel, Jon Davenport, Joshua Ennen, James Ramsey, and Jimmy Webb, Reptile Richness of the Great Smoky Mountains National Park. Association of Southeastern Biologists, 2006, Gatlinburg, TN.

Jon M. Davenport and A. Floyd Scott. Herpetofauna of Fort Donelson National Battlefield, Stewart County, Tennessee: A Preliminary Report.

- Tennessee Herpetology Conference, 2004, Maryville College, Maryville, TN.
- Tennessee Academy of Science, 2004, Columbia State Community College, Columbia, TN.
- Joint Meeting of Ichthyologists and Herpetologists, 2005, Tampa Bay, FL.

Honors and Awards

College of Science, Technology, and Agriculture Research Award, SEMO, 2017

East Carolina University Outstanding Dissertation award, 1st place university wide, 2012

Gerhardt Kalmus award for academic excellence and service by a biology graduate student, 2009

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Best graduate student talk, ECU research week, Natural Sciences Section, 2009

First place, Zoology poster presentation, Tennessee Academy of Science, 2004

Invited Seminars

University of North Carolina-Asheville, 2019

Clemson University, 2018

Appalachian State University, 2018

Austin Peay State University, 2018

Southern Illinois University, 2017

Sam Houston State University, 2017

Murray State University, 2017

University of Maryland, 2017

Georgia College & State University, 2016

University of Central Arkansas, 2014

Southern Arkansas University, 2014

University of Virginia-Wise, 2013

Professional Service

Associate editor, Ichthyology and Herpetology journal (formerly Copeia), 2021-present

Association of Southeastern Biologist's Senior Research Award Committee 2018-current

Chair of university IACUC, Southeast Missouri State University, 2015-2018

Faculty sponsor for Southeast Missouri State University chapter of the Wildlife Society

Miller Reserve Wetland Restoration Manager, Southeast Missouri State University, 2014-2018

Stoye Ecology award judge, 2016 JMIH meeting, New Orleans, LA

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Chair of Plant Ecologist search committee, Southeast Missouri State University, 2015

Chair of Wildlife Toxicologist search committee, Southeast Missouri State University, 2014-2015

Graduate committee member 2014-present

- Taylor Paige Fulk, Appalachian State University
- Freddy Ortega, Appalachian State University
- Dustin Broaddus, Southeast Missouri State University
- Ben Westfall, Southeast Missouri State University
- Kendra Molina, Southeast Missouri State University
- Kathy Hixson, Southeast Missouri State University
- Michael Wolf, Southeast Missouri State University
- Sam Alvino, Southeast Missouri State University
- Lora Dirnberger, Southeast Missouri State University
- Jessica Crites, Southeast Missouri State University
- Tyler Ham, Southeast Missouri State University
- Nick Kramer, Southeast Missouri State University
- Lori Monday, University of Central Arkansas

Judge for SSAR student poster, 2014 JMIH meeting, Chattanooga, TN

Judge for Ecological Society of America, Braun/Beull award, 2013 Ecological Society of America Meeting, Minneapolis, MN

Presider, 2013 Ecological Society of American Meeting, Minneapolis, MN

Ad hoc reviewer for: *Ecology, Global Change Biology, Oecologia, Oikos, Biological Conservation, Journal of Animal Ecology, Hydrobiologia, Diversity and Distributions, Behavioral Ecology, Journal of Herpetology, Southeastern Naturalist, Forest Ecology and Management, PloS One, Encyclopedia for Life Sciences, Journal of Arachnology, International Journal of Zoology, Acta Oecologia, Herpetological Conservation and Biology, Journal of Fish and Wildlife Management, Scientific Reports, Animal Conservation, Copeia, Journal of Applied Ecology, Herpetologica, Copeia, American Naturalist, Freshwater Science, Freshwater Biology, Aquatic Ecology*

Moderator for Aquatic Ecology Section of 2010 Association of Southeastern Biologists Meeting, Asheville, NC

Biology Graduate Student Association, Treasurer, 2008-2010

Biology Graduate Student Association, Faculty Representative, 2006-2007

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Community Service and Outreach

Children's Playhouse, STEAM program on salamanders, July 2019, October 2019

Alligator Snappers of west TN, Larry Rea Outdoors Radio Show, Memphis, TN, 2017

Amphibians of Missouri, MDC Nature Center Training, Cape Girardeau, MO, 2016

Volunteer for Reptile and Amphibian Day, NC Herpetological Society and NC Museum of Natural Sciences, 2011

Created and organized biology graduate student Research In Progress seminar series, 2008- 2010

Volunteer for North Carolina Calling Amphibian Survey Program, North Carolina Wildlife Commission, 2009-2010

Science Olympiad, East Carolina University-Herpetology section administrator/judge, 2008-2009.

Discovery Camp for Kids assistant, East Carolina University, 2007-2008

Science Olympiad, East Carolina University-Entomology section administrator/judge, 2006.

Volunteer, Evaluating the Distribution of Herpetofauna in East Tennessee, Region IV, Tennessee Wildlife Resources Agency, Morristown, TN, January 2005-June 2005.

Volunteer worker for exotic species removal program at Warner Parks, Nashville, Tennessee, Fall 2004.

Creepy/Crawly Day at Land Between Lakes Environmental Center- Herpetology exhibit, 2004.

Science Olympiad, Maryville College- Ecology, Water Quality, and Ornithology section administrator/judge, 2003.

Discover Life in America, Assessment of Discover Life/National Geographic sampling methodology for volunteer surveys-Salamanders, 2002

Professional Memberships

Wildlife Society

Beta Beta Beta

Ecological Society of America

Southeastern Partners in Amphibian and Reptile Conservation (SE PARC)

Society for the Study of Amphibians and Reptiles

Tennessee Herpetological Society

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North Carolina Herpetological Society
Missouri Herpetological Association
Association of Southeastern Biologists
Herpetologists League
American Society of Ichthyologists and Herpetologists