

Charles R. McDowell

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ACADEMIC TRAINING

Scheduled May, 2007	M.S. Arkansas State University	Biology
2004	B.S. Arkansas State University	Wildlife Management

PROFESSIONAL AFFILIATIONS

National Geographic Society
Society for the Study of Amphibians and Reptiles

PROFESSIONAL WORK EXPERIENCE

2007 – present	Ecologist: Jackson Environmental, LLC Richmond, KY Conducted endangered species surveys in Kentucky, West Virginia, and Virginia Conducted benthic surveys in Kentucky and West Virginia Developed compensatory mitigation plans Conducted cumulative impact reports
2006-2007	Ecologist: CMLI, Inc. Pikeville, KY Conducted endangered species surveys in Kentucky, West Virginia, and Virginia Conducted benthic surveys in Kentucky and West Virginia Developed compensatory mitigation plans Conducted cumulative impact reports
2005-present	Graduate Teaching Assistant: Arkansas State University, State University, AR Taught four laboratory classes, of biology and/or related disciplines per semester, totaling 12 hours, with an average of 20 students per class Performed the following duties as a GTA in Invertebrate Zoology, Ecology, Electron Microscopy, Human Anatomy and Physiology, and General Biology labs: prepared and administered lectures to accompany laboratory material prepared, proctored, and graded exams
2001-Present	Herpetology Museum Curatorial Assistant: Arkansas State University, State University, AR Prepared and collected specimens for the collection Performed preventive care and maintenance of specimens Maintained museum specimen records in catalog

- 2005 **Lead Field Researcher:** Queen Snake Survey.
Implemented various herpetological survey techniques to survey for Queen Snakes
Organized Field Crew and survey trips.
- 2004 Contracted by Arkansas Natural Heritage Commission to map a recently discovered population of pond berry (*Lindera melissifolia*) at the St. Francis Sunken Lands, Arkansas
- 2003-2004 **Field Research Technician.** Fort Chaffee Herpetological Inventory
Implemented various herpetological survey techniques to survey for amphibians and reptiles on Fort Chaffee.
- 2003-2004 **GIS Technician.** Ozark Scenic Rivers Herpetological Inventory.
created a usable database and maps for the NPS from data gathered during the survey of the Current and Jack's Fork Rivers.
- 2003-2004 **Field Technician.** Dusky Salamander Survey. Collection of biological data from animals
- 2003-2005
2002-2003 **Volunteer.** USFW White River Wildlife Refuge. Interviewing hunters and collecting biological data from harvested wildlife
- 2002-2003 **Field Research Technician.** Ozark Scenic Rivers Herpetological Inventory
Implemented various herpetological survey techniques to survey for amphibians and reptiles
- 2002 **Field Research Technician.** Ozark Hellbender (*Cryptobranchus alleganiensis bishopi*) Population Survey.
Collected biological Data from Ozark Hellbenders
- 2001-2002 **Field Research Technician.** Heartlands National Park Service Herpetological Inventory.
Implemented various herpetological survey techniques to survey for amphibians and reptiles
- 2001-2002 **Field Research Technician.** Ozark Hellbender (*Cryptobranchus alleganiensis bishopi*) Survey.
Collected biological Data from Ozark Hellbenders

Publications:

- McCallum, M.L., S.E. Trauth, M.N. Mary, **C.R. McDowell**, and B.A. Wheeler. (In Press). Fall breeding of the southern leopard frog (*Rana sphenocephala*) in northeastern Arkansas. Southeastern Naturalist (13 June 2003)
- McCallum, M.L., S.E. Trauth, **C.R. McDowell**, R.G. Neal and T.L. Klotz. (In Press). Calling site characterization of the Illinois chorus frog (*Pseudacris streckeri illinoensis*) with additional notes on population size and breeding choruses. Herpetological Natural History.
- McDowell, C.R.**, B.A. Wheeler, and S.E. Trauth. (In Press). Three-toed Box Turtle. (*Terrapene carolina triunguis*) Aquatic Behavior. Herpetological Review.
- Neal, R.G., M.L. McCallum, **C.R. McDowell**, S.E. Trauth. (In Press). Alligator *mississippiensis* (American Alligator) nest and nestling ecology. Herpetological Review.

Presentations:

- McDowell, C.R.**, M.L. McCallum, S.E. Trauth, B.A. Wheeler, and R.L. Shelton. 2003. Length-mass associations of hatchling alligator snapping turtles at various stages of metabolic bone disease, with notes on behavioral observations. 87th Annual Meeting of the Arkansas Academy of Science. Fayetteville, AR.
- Neal, R.G., M.L. McCallum, S.E. Trauth, **C.R. McDowell**, and T.L. Klotz. 2003. Calling site characterization of the Illinois chorus frog (*Pseudacris streckeri illinoensis*). 87th Annual Meeting of the Arkansas Academy of Science. Fayetteville, AR.
- Stewart, J.P., **C.R. McDowell**, R.G. Neal, and S.E. Trauth. 2004. The Occurrence of Eastern Tiger Salamanders (*Ambystoma t. tigrinum*) in the Harold E. Alexander Wildlife Management Area, Sharp County, Arkansas. 88th Annual Meeting of the Arkansas Academy of Science. Jonesboro, AR.
- Wheeler, B.A., M.L. McCallum, S.E. Trauth, M.N. Mary, **C.R. McDowell**. 2003. Fall breeding of *Rana sphenocephala* in northeastern Arkansas. 87th Annual Meeting of the Arkansas Academy of Science. Fayetteville, AR.

REFERENCES

Stanly E. Trauth, PhD. (Thesis Committee Chair and Supervisor)
Herpetologist
Arkansas State University
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Malcolm L. McCallum, PhD (Former Supervisor)
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