

# CARLA L. ATKINSON

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## EDUCATION

- 2013** Ph.D. Ecology and Evolutionary Biology, University of Oklahoma. Advisor: Dr. Caryn C. Vaughn. Dissertation title: Hierarchical controls on the impact of consumer stoichiometric regulation: from species traits to ecosystem level consequences
- 2008** M.S. Ecology, University of Georgia. Advisor: Dr. Alan P. Covich. Thesis title: Food resource quality and its utilization by a native and invasive bivalve in a Gulf Coastal Plain stream
- 2006** B.S. Biology (summa cum laude), Missouri State University, Advisor: Dr. Alexander Wait. Minors: Chemistry, Environmental Science and Policy.

## PROFESSIONAL EXPERIENCE

- Current** **Assistant Professor**, University of Alabama, Department of Biological Sciences
- 2013-14** **Postdoctoral Associate**, Cornell University. EVOTRAC project. Advisor: Alex Flecker.
- 2010-13** **Graduate Research Fellow (EPA STAR Fellow)**, University of Oklahoma. Advisor: Caryn Vaughn
- 2011** **Biological Technician**. Robert S. Kerr Laboratory, Ada, OK. Environmental Protection Agency. Supervisor: Ken Forshay
- 2010-11** **Graduate Teaching Assistant**. BIOL 1005 – Concepts in Biology. University of Oklahoma
- 2009-10** **Graduate Research Assistant**. University of Oklahoma. Advisor: Caryn Vaughn
- 2009** **Research Technician II**. J.W. Jones Ecological Research Center. Supervisor: Stephen W. Golladay
- 2009** **Research Assistant**. Elevation Gradient Project. Luquillo LTER, Puerto Rico. Supervisor: Alan P. Covich
- 2006-08** **Graduate Research Assistant**. University of Georgia, Odum School of Ecology, Advisors: Alan P. Covich and Stephen P. Opsahl
- 2008** **Research Assistant**. Luquillo LTER, Puerto Rico. Supervisor: Alan P. Covich
- 2006** **Field Research Technician**. Environmental Monitoring and Assessment Project (EMAP) on the Missouri River. Supervisor: John Havel
- 2003-06** **Laboratory Assistant**. Missouri State University Inorganic Chemistry Laboratory. Supervisor: Richard Biagioni.
- 2002-05** **Field and Laboratory Assistant**. Missouri State University Geomorphology Laboratory. Supervisor: Robert Pavlowsky.

## PUBLICATIONS

### ***Peer-Reviewed Publications:***

- Capps, K.A., **C.L. Atkinson**, and A.T. Rugenski. 2015. Implications of species addition and species loss on nutrient dynamics in freshwaters. *Freshwater Science* 34:485-496.
- Sitters, J., **C.L. Atkinson**, N. Guelzow, P. Kelly, and L.L. Sullivan. 2015. Spatial stoichiometry: cross-ecosystem material flows and their impact on recipient ecosystems and organisms. *Oikos*: 124: 920-930.  
\*Woodstoich III paper

- Vaughn, C.C., **Atkinson, C.L.**, and J.P. Julian. 2015. Multiple droughts lead to long-term losses in mussel-provided ecosystem services. *Ecology and Evolution* 5: 1291-1305.
- Atkinson, C.L.** and C.C. Vaughn. 2015. Temporal and spatial scaling of the impact of freshwater mussels on ecosystem function. *Freshwater Biology* 60: 563-574. \*Special Issue: Synthesizing Ecosystem-Level Effects of Consumer-Driven Nutrient Dynamics in Fresh Waters
- Capps, K.A., **C.L. Atkinson**, and A.T. Rugenski. 2015. Consumer-driven nutrient dynamics in freshwater ecosystems: an introduction. *Freshwater Biology* 60:439-442. \*Special Issue: Synthesizing Ecosystem-Level Effects of Consumer-Driven Nutrient Dynamics in Fresh Waters
- Atkinson, C.L.**, J.P. Julian, and C.C. Vaughn. 2014. Species and function lost: interaction between drought and land cover. *Biological Conservation* 176:30-38.
- Atkinson, C.L.**, J.F. Kelly, and C.C. Vaughn. 2014. Tracing consumer-derived nitrogen in riverine food webs. *Ecosystems* 17:485-496. \*Nominated and chosen for the Hynes Award, Society of Freshwater Science
- Atkinson, C.L.**, A.D. Christian, D.E. Spooner, and C.C. Vaughn. 2014. Long-lived organisms provide an integrative footprint of agricultural land use. *Ecological Applications* 24:375-384.
- Atkinson, C.L.**, C.C. Vaughn, K.J. Forshay, and J.T. Cooper. 2013. Aggregated filter-feeding consumers alter nutrient limitation: Consequences for ecosystem and community dynamics. *Ecology* 94:1359-1369. \*The Faculty of 1000 recommended this paper.
- Atkinson, C.L.** 2013. Razor-backed musk turtle (*Sternotherus carinatus*) diet across a gradient of invasion. *Herpetological Conservation and Biology* 8:561-570.
- Atkinson, C.L.**, J.P. Julian, and C.C. Vaughn. 2012. Scale-dependent longitudinal patterns in mussel community composition. *Freshwater Biology* 57:2272-2284.
- Atkinson, C.L.** 2012. *Sternotherus carinatus* (Razor-backed musk turtle). Reproduction. *Herpetological Review* 43:517.
- Atkinson, C.L.**, S.W. Golladay, and M.R. First. 2011. Water quality and planktonic microbial assemblages of isolated wetlands in an agricultural landscape. *Wetlands* 35:885-894.
- Atkinson, C.L.**, M.R. First, A.P. Covich, S.P. Opsahl, and S.W. Golladay. 2011. Suspended material availability and filtration-biodeposition processes performed by native and invasive bivalve species in streams. *Hydrobiologia* 667:191-204.
- Atkinson, C.L.**, S.P. Opsahl, A.P. Covich, S.W. Golladay, and L.M. Conner. 2010. Stable isotopic signatures, tissue stoichiometry, and nutrient cycling (C and N) of a native and invasive bivalve. *Journal of the North American Benthological Society* 29:496-505.
- Atkinson, C.L.**, S.W. Golladay, S.P. Opsahl, and A.P. Covich. 2009. Stream discharge and floodplain connections affect seston quality and stable isotopic signatures in a coastal plain stream. *Journal of the North American Benthological Society* 28:360-370.
- Sterrett, S.C., L.L. Smith, M.B. Howze, A.M. Heupel and **C.L. Atkinson**. 2008. *Pseudemys concinna* (Eastern River Cooter) movement. *Herpetological Review* 39:464.

### **Reviews:**

- Atkinson, C.L.** 2013. A comprehensive review of North America's most imperiled faunal group: setting the framework for new hypotheses. Invited review, *Ecology* 94: 2657-2658.

### **Other publications:**

- Atkinson, C.L.**, K.J. Forshay, and C.C. Vaughn. 2013. Native mussels alter nutrient availability and reduce blue-green algae abundance. *EPA Science Brief*. EPA/600/F-13/231.

Capps, K.A., **C.L. Atkinson**, A. Rugenski, C. Baxter, K.S. Boersma, C.C. Carey, P.B. McIntyre, J.W. Moore, W.H. Nowlin, and C.C. Vaughn. 2012. Organized oral session: Impacts of species addition and species loss on ecosystem function in freshwater systems. *Bulletin of the Ecological Society of America* 93:402-408.

### **Manuscripts in Review or Preparation:**

**Atkinson, C.L.** and J.T. Cooper. *In review*. Hierarchical controls on benthic algal species composition within a watershed. *Aquatic Ecology*.

**Atkinson, C.L.**, S.W. Golladay, and L.L. Smith. *In review*. Diet of larval anurans across multiple isolated wetlands in the southeastern USA. *PLoS One*.

**Atkinson, C.L.**, A. McCormick, and M.M. Gangloff. *In prep*. Associations between native freshwater mussels and *Corbicula fluminea* in southeastern streams. For *Biological Invasions*.

**Atkinson, C.L.**, K.A. Capps, A.T. Rugenski, and M.J. Vanni. *In prep*. Consumer-driven nutrient dynamics from individuals to ecosystems: integrating abiotic and biotic factors. For *Biological Reviews*.

Trentman, M., **C.L. Atkinson**, W.K. Dodds. *In prep*. Native freshwater mussel effects on nitrogen fluxes within benthic sediments suggest nutrient and biomass dependency. For *Freshwater Biology*.

Sansom, B., **C.L. Atkinson**, and C.C. Vaughn. *In prep*. Growth and age estimates for southeastern Oklahoma mussel populations. For *Freshwater Mollusk Biology and Conservation*.

### **GRANTS AND SCHOLARSHIPS**

#### **Research Grants:**

- 2015** Weyerhaeuser NR Company Research Grant. *Mussel Diversity, Abundance, and Habitat in the Sipsey River, Alabama*. (\$4,999)
- 2015** Alabama Department of Conservation and Natural Resources Summer Cooperative (\$5,876)
- 2012** Research Grant, Graduate Student Senate, University of Oklahoma (\$285)
- 2012** General Endowment Award, Society of Freshwater Science (\$1,000)
- 2011** Grant-in-Aid of Research, Sigma Xi (\$600)
- 2010** Research Grant, Graduate Student Senate, University of Oklahoma (\$370)

#### **Fellowships and Scholarships:**

- 2011-13** EPA Science to Achieve Results (STAR) Fellowship (\$126,000)
- 2009-13** W.O. Wethington Fellowship, University of Oklahoma Graduate College (\$20,000)
- 2012** Corinne Price Scholarship, College of Arts and Sciences, University of Oklahoma (\$1,200)
- 2011** Adams Scholarship, University of Oklahoma, Zoology Department (\$3,500)
- 2010** Robert E. and Mary B. Sturgis Scholarship, University of Oklahoma, College of Arts and Sciences (\$1,000)
- 2006-08** University-Wide Research Assistantship, University of Georgia (\$42,000)
- 2002** Board of Governor's Scholarship (full-tuition scholarship)
- 2002** White River Valley Electric Scholarship, White River Electric (\$2,500)
- 2002** A+ Scholarship, Missouri State-Wide Scholarship (\$2,800)

#### **Travel Grants:**

- 2015** Travel Award, Royal Society Meeting – Elements, genomes, and ecosystems: cascading nitrogen and phosphorus impacts across levels of biological organization, Buckinghamshire, United Kingdom (\$500)
- 2014** Travel Award, Woodstoich Symposium, Sydney, Australia (\$1600)
- 2013** Parkyn Legacy Award, British Ecological Society (\$448)  
T.H. Williams International Travel Award, Graduate College, University of Oklahoma (\$1,800)  
Travel Grant, College of Arts and Sciences, University of Oklahoma (\$750)  
Conference Exhibition Grant, Graduate Student Senate, University of Oklahoma (\$472)
- 2012** Travel Award, Ecological Society of America, Aquatic Ecology Section (\$300)  
Travel Grant, College of Arts and Sciences, University of Oklahoma (\$750)  
Conference Exhibition Grant, Graduate Student Senate, University of Oklahoma (\$375)  
Travel Grant, Dept. of Zoology, University of Oklahoma (\$250)
- 2011** OFWIM Travel Grant, Organization of Fish and Wildlife Managers (\$600)  
Robberson Travel Grant, Graduate College, University of Oklahoma (\$500)  
Travel Grant, College of Arts and Sciences, University of Oklahoma (\$750)  
Travel Grant, Dept. of Zoology, University of Oklahoma (\$250)
- 2010** Travel Award, American Society of Limnology and Oceanography (\$250)  
Travel Grant, College of Arts and Sciences, University of Oklahoma (\$750)  
Travel Grant, Dept. of Zoology, University of Oklahoma (\$250)  
Conference Exhibition Grant, Graduate Student Senate, University of Oklahoma (\$213)

## AWARDS AND HONORS

- 2015** Hynes Award – for Early Career Scientists, Society of Freshwater Sciences
- 2014** Provost's Best Ph.D. Dissertation Award, Science and Engineering, University of Oklahoma
- 2013** Best Poster Award – Science A. Graduate College Research and Performance Day, University of Oklahoma
- 2013** Best Student Presentation Symposium Finalist, American Fisheries Society
- 2012** Best Poster Award, Biology Dept. Retreat, University of Oklahoma BioStation
- 2010** Clark Hubbs Best Student Poster Award, Southwestern Association of Naturalists
- 2004** Leadership Award, Opening the Horizons (sponsored by National Science Foundation)
- 2002-06** Dean's List, Missouri State University

## INVITED TALKS

Miami University, Department of Zoology Seminar Series, Oxford, OH. April 2015. The role of organisms in nutrient cycling in aquatic ecosystems. Hosted by Michael Vanni.

Cornell University, Biogeochemistry and Environmental Science and Sustainability (BESS) Seminar Series, Ithaca, NY. October 2014. Role of consumers in driving ecosystem function and services across environmental gradients. Invited by Lily Twining

Universidad San Francisco Quito, Biology Departmental Seminar, Quito, Ecuador. February 2014. Ecosystem-level consequences of animal nutrient cycling in streams. Hosted by Andrea Encalada.

University of Oklahoma, Biology Departmental Seminar, Norman, OK. November 2013. Ecosystem-level consequences of consumer-mediated nutrient cycling in streams. Organized by Mike Kaspari.

The Ohio State University, Columbus, OH. July 2013. Mussels as a model: Impact of consumer-driven nutrient recycling on stream ecosystems. Hosted by Stuart Ludwin.

University of Oklahoma BioStation, Kingston, OK. June 2013. Freshwater mussels: Ecological engineers and sentinels of ecosystem change. Hosted by Gary Wellborn.

Kansas State University, Manhattan, KS. November 2012. Translocation of nutrients by freshwater mussels - alteration of ecosystem and community processes. Hosted by Keith Gido.

University of Texas Tyler. Tyler, TX. September 2012. The functional roles of unionid mussels on ecosystem processes impact community structure. Hosted by Neil Ford.

University of Oklahoma, Zoological Society, Norman, OK. November 2009. The natural history and ecology of native freshwater mussels. Hosted by Kenneth Hobson.

University of Georgia, Graduate School Board, Athens, GA. April 2008. Ecosystem services and resource utilization by a native and non-native bivalve: How do they compare? Invited by Dean Maureen Grosso.

#### **SELECTED PRESENTATIONS (19 of 39 total, + denotes invited)**

**+Atkinson, C.L.**, A.S. Flecker, and A.C. Encalada. Process rates of aquatic insects across latitude and elevation gradients: Does daily and annual variability lead to greater adaptability in stream insects? Ecological Society of America Meeting. August 2015. Baltimore, MD.

**Atkinson, C.L.**, A.S. Flecker, A.C. Encalada, and S.A. Thomas. Both quantity and quality of food resources impact resource assimilation. Royal Society Meeting on Elements, genomes and ecosystems: cascading nitrogen and phosphorus impacts across levels of biological organisation. June 2015. Buckinghamshire, United Kingdom.

**Atkinson, C.L.**, A.S. Flecker, A.C. Encalada, and S.A. Thomas. Insect diet and stoichiometry along a tropical elevation gradient. Society of Freshwater Science Meeting. May 2015. Milwaukee, WI.

**Atkinson, C.L.**, M. Trentman, and J. Brant. Do native unionid mussels create coupled denitrification-nitrification hotspots? Freshwater Mollusk Conservation Society Meeting. March 2015. St. Charles, MO.

**+Atkinson, C.L.**, C.C. Vaughn, and A.S. Flecker. Species traits: Are stoichiometric and thermal traits linked? Joint Aquatic Sciences Meeting. May 2014. Portland, Oregon.

**Atkinson, C.L.**, J.F. Kelly, and C.C. Vaughn. Tracing mussel-derived nitrogen in riverine food webs. INTERCOL/British Ecological Society Joint Meeting. August 2013. London.

**+Atkinson, C.L.** and C.C. Vaughn. Alteration of relative storage and cycling of nutrients by freshwater mussels. *Special Session invitation*. Society of Freshwater Science Meeting. May 2013. Jacksonville, Florida.

**Atkinson, C.L.** and C.C. Vaughn. Tracing mussel-derived nitrogen in riverine food webs. Freshwater Mollusk Conservation Society Meeting. March 2013. Guntersville, Alabama.

**+Atkinson, C.L.**, K.A. Capps, K.A., and A. Ruginski. The effects of species gain and species loss on nutrient storage and cycling in freshwater ecosystems: Summarizing patterns across ecosystems. *Oral Presentation*. Ecological Society of America Meeting. August 2012. Portland, Oregon.

**Atkinson, C.L.**, C.C. Vaughn, and K.J. Forshay. Translocation of nutrients by freshwater mussels – alteration of ecosystem and community processes. Society of Freshwater Science Meeting. May 2012. Louisville, Kentucky.

- Atkinson, C.L.** Translocation of nutrients by freshwater mussels alters ecosystem and community processes: the potential consequences of future losses. EcoMunch Seminar Series. February 2012. University of Oklahoma, Norman Oklahoma.
- Atkinson, C.L.** Mussel species turnover along the river continuum. Organization of Fish and Wildlife Information Managers Meeting. October 2011. St. Louis, Missouri.
- Atkinson, C.L.** and C.C. Vaughn. Modification of nutrient limitation by unionid mussels. *Oral Presentation*. North American Benthological Society. May 2011. Providence, Rhode Island.
- Atkinson, C.L.** and C.C. Vaughn. Alteration of nutrient dynamics by unionid mussels. *Oral Presentation*. Freshwater Mollusk Conservation Society. April 2011. Louisville, Kentucky.
- Atkinson, C.L.,** S.W. Golladay, and M.R. First. Differences in water column heterotrophs attributed to water chemistry across a gradient of agricultural impacts. *Poster Presentation*. American Society of Limnology and Oceanography / North American Benthological Society Joint Meeting. June 2010. Santa Fe, New Mexico.
- Atkinson, C.L.** A.P. Covich, S.P. Opsahl, S.W. Golladay, L.M. Conner. Trophic niche space of a native mussel and *Corbicula fluminea* in a coastal plain stream. *Oral Presentation*. North American Benthological Society. May 2009. Grand Rapids, Michigan.
- Atkinson, C.L.** Controls on food quality and its utilization by freshwater bivalves in a coastal plain stream. *Oral Presentation*. Thesis Defense Seminar. November 2008. Odum School of Ecology, University of Georgia, Athens, Georgia.
- Atkinson, C.L.,** S.P. Opsahl, A.P. Covich, and S.W. Golladay. Differences in feeding ecology and ecological services provided by native mussels versus an invasive bivalve, *Corbicula fluminea*. *Oral Presentation*. North American Benthological Society. May 2008. Salt Lake City, Utah.
- Atkinson, C.L.,** S.P. Opsahl, A.P. Covich, and S.W. Golladay. Resource utilization and ecosystem services provided by *Corbicula fluminea* compared to a native mussel. *Oral Presentation*. Southeastern Ecology and Evolution Conference. March 2008. Florida State University, Tallahassee, Florida.

## PROFESSIONAL SERVICE

### Special Issue Organizer:

*Freshwater Biology*, Issue Title: *Ecosystem-level effects of consumer-driven nutrient dynamics*, Organized with Krista Capps and Amanda Rugenski. Proposal for issue accepted and issue published March 2015.

### Session Organizer:

Society of Freshwater Science Meeting. Session title: *Our Freshwater Futures: a session particularly for undergraduates*. May 2015.

Joint Aquatic Sciences Meeting. Session title: *From individuals to ecosystems: consumer driven nutrient cycling across aquatic ecosystems*. May 2014. Organized with Amanda Rugenski, Eric Moody, and Matt Trentman.

Society of Freshwater Science Meeting (formerly the North American Benthological Society). Session title: *More than just P in a bag: using consumer-driven nutrient dynamics to understand community interactions and ecosystem processes*. May 2013. Organized with Krista Capps and Amanda Rugenski

Ecological Society of America Meeting. Session title: *Impacts of Species Addition and Species Loss on Ecosystem Function in Freshwater Systems*. August 2012. Organized with Krista Capps and Amanda Rugenski

Society of Freshwater Science Meeting (formerly the North American Benthological Society). Session title: *Species addition and loss: effects on ecosystem processes*. May 2012. Organized with Krista Capps and Amanda Rugenski

**Program Committee:**

- 2014-15 Society of Freshwater Science, Education and Diversity Committee
- 2011-14 Society of Freshwater Science, Graduate Resources – Mentor-Mixer Committee
- 2012 Freshwater Mollusk Conservation Society Workshop, Program Committee, Athens, GA, USA

**Session Moderator:**

Ecological Society of America, Special session: Solving complex problems in coupled natural and human systems: Socio-ecological research at the frontier of global change, August 2015, Baltimore, MD, USA

Freshwater Mollusk Conservation Society, Life History and Ecology Section, March 2015, St. Charles, MO, USA

British Ecological Society/INTERCOL Joint Meeting, Aquatic Ecology Section, August 2013, London, UK

Society of Freshwater Science, Mollusk Section, May 2009, Grand Rapids, MI, USA

**Ad hoc Peer Review:**

Journals: *Aquatic Sciences, Biogeochemistry, Ecological Applications, Ecological Entomology, Ecology Letters, EcoSphere, Environmental Management, Freshwater Biology, Freshwater Science (formerly Journal of the North American Benthological Society), Global Change Biology, Herpetological Conservation and Biology, Hydrobiologia, Journal of Shellfish Management, Limnology and Oceanography, Marine Ecology Progress Series, Oikos, Proceedings of the Royal Society-B, Southwestern Naturalist, Wetlands*

Grantors: National Science Foundation Equipment Grant, National Science Foundation Research Experiences for Undergraduates Grant, National Science Foundation Long-Term Research in Environmental Biology Grant

**UNIVERSITY SERVICE**

- 2015** Undergraduate Creative Activity Conference Judge, College of Arts and Sciences, University of Alabama
- 2014** Undergraduate Thesis Reviewer, Dept. of Ecology and Evolutionary Biology, Cornell University
- 2012-13** Seminar Committee, Graduate student representative, Biology Department, University of Oklahoma
- 2010-12** Zoological Association of Graduate Students (ZAGS) President, Zoology Department, University of Oklahoma, Norman, OK
- 2011-12** Department Retreat Planning Committee, Biology Department, University of Oklahoma
- 2012** Organizer, Getting a Postdoc and Faculty Position in Life Sciences, Panel discussion with newly hired faculty. University of Oklahoma, Norman, OK
- 2012** Graduate Student Retreat Planning Committee, Zoological Association of Graduate Students, University of Oklahoma BioStation at Lake Texoma
- 2009-10** Animal Facilities Committee, Graduate student representative, Zoology Department, University of Oklahoma, Norman, OK
- 2007** Audio-Visual Committee, Institute of Ecology Graduate Student Symposium, University of Georgia
- 2006-07** Seminar Committee, Graduate student representative, Institute of Ecology, University of Georgia

## STUDENT RESEARCH MENTORING

Graduate Advisor (student ##presented findings at a meeting or \*\*published findings)

2015-present: Graduate Advisor (M.S.): Scotty McLeay, University of Alabama

2015-present: Graduate Advisor (M.S.): Brian van Ee, University of Alabama

Graduate Committee Member

2014-present: Graduate Dissertation Committee (Ph.D.): Jennifer Gresham, University of Alabama

2015-present: Graduate Dissertation Committee (Ph.D.): Shelly McCain, University of Alabama

Undergraduate Mentoring (student ##presented findings at a meeting or \*\*published findings)

2014: Independent Study Research Mentor for Ecological Society of America SEED student: Carla Lopez ##,  
Cornell University

Additional Undergraduate Research Supervision

2015-present: Jane Kunberger, University of Alabama

2015-present: Cole Howie, University of Alabama

2013-2014: Keith Shane, Cornell University

2011: Jessie Tanner, University of Oklahoma

## TEACHING AND MENTORING

**2015**      **Foundations of Ecology (BSC 695)**, Course Instructor, University of Alabama

**2013**      **Stream Ecology (BIOL 4423/5423)**, Teaching Assistant, University of Oklahoma

**2012**      **Principles of Ecology (BIOL 3403)**, Guest Lecturer, University of Oklahoma

**2010-11**   **Concepts in Biology (BIOL 1005)**, Teaching Assistant, University of Oklahoma

**2006**      **Limnology (BIO 562)**, Guest Lecturer, Missouri State University

**2005**      **Opening the Horizons Program**, Mentor, Sponsored by the National Science Foundation, Missouri State University. Taught middle-school age girls about biology and chemistry.

**2002**      **Missouri A+ program**, Creative writing tutor, Ozark High School, Ozark, MO

## OUTREACH AND SERVICE

**2015**      **Presenter**, College of Arts and Sciences Homecoming Tent, University of Alabama

**2015**      **Presenter and Workshop Assistant**, Freshwater Mussels of the ACF Basin, J.W. Jones Ecological Research Center, Newton, GA

**2013**      **Presenter**, Biology Day at the BioStation – Mollusks of Lake Texoma, Madill High School, University of Oklahoma BioStation, Kingston, OK

**2013**      **Presenter**, Invertebrate Day, Wilson Elementary, Norman, OK

**2012**      **Presenter**, Sideshow Science – Oklahoma's Aquatic Resources, Oklahoma City Science Museum, Oklahoma City, OK

**2011-12**   **Earth Day Presenter**, Freshwater Resources, Oklahoma East Central University, Ada, OK

**2009**      **BioBlitz Volunteer**, Oklahoma Biological Survey, Robber's Cave State Park, OK

**2008-09**   **Science Fair Judge**, Darton College/Merck Regional Science Fair, Darton College, Albany, GA.

**2008-09**   **Presenter**, Freshwater Mussel Workshop, J.W. Jones Ecological Research Center, Newton, GA.

**2008**      **Presenter**, Biology of Freshwater Ecosystems – Flint River, After-School Program for elementary school students. LaGrange College, Albany, GA.



- 2006-09 Rivers Alive Volunteer**, Georgia.
- 2006 Presenter**, Biology of Streams, Girl Scout Troop, Ozark, MO
- 2004-05 Presenter and Organizer**, Biodiversity and Health of Ozark Streams, Missouri State University Earth Day, Springfield, MO
- 2004 Trail Volunteer**, Olympic National Park, Port Angeles, WA. Supervisor: Jack Galloway
- 2001-02 State Forest Volunteer**, Busiek State Forest, Missouri Department of Conservation. Supervisor: Frances Dilsaver

## **TRAINING AND WORKSHOPS**

- 2014 Woodstoich III**, Sydney, Australia (<http://woodstoich.org>)
- 2014 Active Learning Workshop**, Cornell University, Ithaca, NY
- 2013 SWAT (Soil and Water Assessment Tool) Beginner's Workshop**, Texas A&M, College Station, TX
- 2012 Python Scripting for ArcGIS**, South Central Arc Users Group, Oklahoma City, OK
- 2010 Aquatic GIS Workshop**, St. Louis University, St. Louis, MO
- 2010 Lab Safety Training**, Robert S. Kerr Environmental Research Center, U.S. Environmental Protection Agency, Ada, OK
- 2008 Prescribed Fire Course**, J.W. Jones Ecological Research Center, Newton, GA
- 2005 SCUBA Certification**, SCUBA Schools International
- 2002-06 Level 2 Volunteer Monitor**, Missouri Stream Team. President of Missouri State University Stream Team (2004-2006), Springfield, MO

## **PROFESSIONAL MEMBERSHIPS**

- Ecological Society of America
- Freshwater Mollusk Conservation Society
- Society of Freshwater Science (formerly the North American Benthological Society)
- Sigma Xi