Amelia Kate Atwell

665 Cherokee Lake Drive  
Ringgold, GA 30736  
(423) 902-6178  
[akatwell25@gmail.com](mailto:akatwell25@gmail.com)

EDUCATION:

**Master of Science, Environmental Science May 2015**University of Tennessee at Chattanooga, Chattanooga, Tennessee

Relevant Coursework: Limnology and Reservoir Ecology, Ichthyology, Hydrology, Advanced Ecology, Biodiversity and Natural Resource Conservation, and Applied Statistics for Environmental Scientists

**Bachelors of Science, Biology** (*Magna Cum Laude*) **December 2011**Dalton State College, Dalton, Georgia

RESEARCH:

**Research Advisor January 2016- April 2016**Dalton State College, Dalton, Georgia

Supervised undergraduate student research investigating relationships between land use and water quality using macroinvertebrates as bioindicators by comparing an undisturbed upstream site and a downstream site. Assisted with water quality parameters testing (pH, temperature, dissolved oxygen, and turbidity) and collection and identification of macroinvertebrate assemblages in a local creek (Holly Creek, Chatsworth, Georgia).

**Intern January 2013- August 2014**Limestone Valley Resource Conservation and Development Council, Fort Oglethorpe, Georgia

Conducted monthly water sampling and collected and identified macroinvertebrate assemblages to assess water quality in a local watershed (Lookout Creek, Dade County, Georgia). Generated maps of land use, riparian inadequacies, and land imperviousness using Geographic Information System for the Lookout Creek watershed to examine relationships between macroinvertebrates and landscape features. Also assisted with organization and implementation of community outreach programs in the Lookout Creek watershed and another local watershed (South Chickamauga Creek, Ringgold, Georgia).

TEACHING EXPERIENCE:

**Lecturer of Biology August 2015- Present**  
Dalton State College, Department of Natural Sciences, Dalton, Georgia

Environmental Studies (BIOL 1105K) - Non-majors biology course (with a lab) focusing on relationships between biological and physical components of the environment and the impact of human activities on the biosphere. Topics include environmental ethics and policy, biodiversity, human population growth, various freshwater resource issues, and climate change. (3 semesters)

Principles of Biology I (BIOL 1107K) - Introductory biology course (with a lab) focusing on fundamental unifying principles of biology for majors and non-majors. Topics include scientific method, biological chemistry, macromolecules, cell structure and function, metabolism and energy conversions, genetics, and evolution. (2 semesters)

Service Learning in Biology (BIOL 4800) - Independent laboratory assistantship for undergraduates in a biology course. Student responsibilities included assisting with answering questions in labs, cleanup of labs, and introducing two laboratory topics. (1 semester)

Research in Biology (BIOL 4960) - Independent research project conducted by undergraduate upperclassmen Biology major. Student presented research findings at annual Student Scholarship Showcase. (1 semester)

Life and Earth Sciences (ISCI 2001) - An integrated science course for education majors focusing on fundamentals of basic earth and life science concepts. Topics include space science, geology, meteorology, metabolism, and cells. (5 semesters)

**Summer Camp Instructor June 2016**Dalton State College, World of Science and Stream Stomp Camps, Dalton, Georgia

Responsible for setting up and explaining the significance of scientific experiments for children ages 6-12. Instructional topics included osmosis and diffusion, states of matter, plant biology, and using macroinvertebrates as bioindicators.

**Teaching Assistant**  **January 2014- May 2014**University of Tennessee at Chattanooga, Ichthyology Lab, Chattanooga, Tennessee

Responsibilities included laboratory instruction, lab set up and breakdown, and cataloguing of fishes in UTC Natural History Museum. Also responsible for generating and grading midterm and final lab practicals.

**Teaching Assistant** **August 2013- December 2013**  
University of Tennessee at Chattanooga, Limnology and Reservoir Ecology Lab, Chattanooga, Tennessee

Responsibilities included instruction of basic macroinvertebrate sampling and water quality techniques using kick nets, YSI, and Hach Turbidimeter. Also responsible for lab set up and breakdown, as well as general upkeep of the laboratory.

PROFESSIONAL PRESENTATIONS:

\*Young, A. N. and **A. K. Atwell**. 15 April 2016. Effects of Land Use on Water Quality in Holly Creek Using Macroinvertebrates as Bioindicators. Dalton State College Student Scholarship Showcase. Dalton, Georgia (Poster)

**Atwell, A. K.,** Huser, D. T., Smith, J. B., and M. S. Schorr. 14 April 2015. Relationships Between Benthic Macroinvertebrate Assemblages, Stream Habitat, and Catchment Landscape Features in the Lookout Creek System (Tennessee River Drainage). University of Tennessee at Chattanooga Research Day. Chattanooga, Tennessee (Poster)

**Atwell, A. K.,** Huser, D. T., Smith, J. B., and M. S. Schorr. 3 April 2015. Relationships Between Benthic Macroinvertebrate Assemblages, Stream Habitat, and Catchment Landscape Features in the Lookout Creek System (Tennessee River Drainage). Association of Southeastern Biologists Conference. Chattanooga, Tennessee (Oral)

**Atwell, A. K.,** Huser, D. T., Smith, J. B., and M. S. Schorr. 9 February 2015. Relationships Between Benthic Macroinvertebrate Assemblages, Stream Habitat, and Catchment Landscape Features in the Lookout Creek System (Tennessee River Drainage). Tennessee Chapter of the American Fisheries Society Conference. Chattanooga, Tennessee (Poster)

\*Indicates Undergraduate Student

INVITED TALKS:

**Atwell, A. K.** 15 February 2017. “Relationships Between Benthic Macroinvertebrate Assemblages, Stream Habitat, and Catchment Landscape Features in the Lookout Creek System (Tennessee River Drainage).” Dalton State College, Biology Senior Seminar

**Atwell, A. K.** 23 September 2016. “Fishes of Lakeshore Park.” Dalton State College, Brookwood Elementary School 4th Grade Science, Technology, Engineering, and Mathematics Day at Dalton State College

**Atwell, A. K.** 8 July 2016. “Protecting Our Local Streams.” Kiwanis Club of Fort Oglethorpe, Georgia

**Atwell, A. K.** 1 June 2016. “Wolman Pebble Count and Physicochemical Water Sampling.” Dalton State College, Field Biology Techniques

**Atwell, A. K.** 31 May 2016. “Benthic Macroinvertebrate Sampling and Field Identification.” Dalton State College, Field Biology Techniques

**Atwell, A. K.** 6 May 2016. “Fishes of Lakeshore Park.” Dalton State College, Brookwood Elementary School 4th Grade Science, Technology, Engineering, and Mathematics Day at Dalton State College

**Atwell, A. K.** 16 March 2016. “Using the Watershed Approach to Address Nonpoint Source Pollution in Northwest Georgia Streams.” Dalton State College, Biology Senior Seminar

AWARDS AND HONORS:

Dean’s List, Dalton State College (6 semesters)

Patricia McGuire White Memorial Scholarship in Biology, Dalton State College Foundation (2011)

Ryan Allan Acree Memorial Scholarship, Dalton State College Foundation (2010)

Roy Barrett Scholarship, Dalton State College Foundation (2009)

Joseph T. Tuggle, Jr., Memorial Scholarship, Dalton State College Foundation (2008)

PROFESSIONAL SERVICE:

Tolbert Elementary School STEM Day (2017)

Mill Creek Tree Planting (2017)

Georgia River’s Alive Stream Cleanup (2015, 2016)

Tennessee River Rescue Stream Cleanup (2013, 2015, 2016)

Brookwood Elementary School Lakeshore Park STEM Day (2014, 2015, 2016)

South Chickamauga Creek Tree Planting (2013, 2016)

Lakeshore Park Privet Smackdown (2016)

Tennessee Valley Authority (TVA) Fish and Macroinvertebrate Index of Biotic Integrity (IBI) sampling (2015)

REFERENCES:

Dr. Randall Griffus- Professor of Mathematics; Dean, School of Science, Technology, and Mathematics, Dalton State College, [rgriffus@daltonstate.edu](mailto:rgriffus@daltonstate.edu), (706) 272-2509

Dr. Mark Schorr- Professor of Biological and Environmental Sciences, University of Tennessee at Chattanooga, [mark-schorr@utc.edu](mailto:mark-schorr@utc.edu), (423) 432-4149

Dr. John Lugthart- Professor of Biology, Dalton State College, [jlugthart@daltonstate.edu](mailto:jlugthart@daltonstate.edu), (706) 272-2485