

TYLER VAUGHN BAX

tyler.bax@duke.edu

Career interests: Spatial analysis; conservation and ecosystem services; watershed management.

- EDUCATION** **MASTER OF ENVIRONMENTAL MANAGEMENT**, May 2008
Nicholas School of the Environment and Earth Sciences
Duke University, Durham, NC
CERTIFICATE IN GEOSPATIAL ANALYSIS, May 2008
Master's project: Landscape analysis of paired watershed studies in western Oregon.
Coursework: Landscape ecology, multivariate statistics, conservation biology, land use planning and policy, satellite remote sensing.
- BACHELOR OF ARTS**, *magna cum laude*, June 2004
Furman University, Greenville, SC
Major: Earth and Environmental sciences.
Senior thesis: Silicon accumulation in tree leaves growing in the Piedmont of SC.
Honors: Phi Beta Kappa; American Mineralogist Society Undergraduate Award; Wallace C. Fallaw Outstanding Senior Award in Earth and Environmental Sciences.
- PROFESSIONAL EXPERIENCE** **Landscape Ecologist**, USGS Cascadia Field Station, Seattle, WA
Exhibited superior ingenuity in interpreting patterns in spatial and statistical data for the Western Oregon Watershed Classification project. Produced a classification that enables extrapolation of results from monitored watersheds and prioritization of future watershed studies sites. Effectively communicated with professionals in the region to promote the project and gain knowledge of aquatic resource management throughout the Pacific Northwest. Summer 2007
- Instructor**, Oregon Museum of Science and Industry, Bend, OR
Taught engaging field studies covering forest and aquatic ecology and volcanic geology at Cascade Science School in the Deschutes National Forest. Developed the ability to manage diverse groups of students and target presentations to age appropriate audiences. Raised students' awareness of cultural history, natural resource management, and sustainability issues in the Pacific Northwest. Praised for enthusiasm and ability to excite others' interest in the natural world. 2005
- GIS/Remote Sensing Research Assistant**, Furman University, Greenville, SC
Gained confidence to conduct research with a small collaborative group of scientists investigating the effects of land use on nitrogen concentrations in the Enoree Watershed in South Carolina. Instigated the process of combining data layers and described trends in the data during analysis, which led to significant results for the research project. Presented research poster at the 2004 Association of American Geographers Annual meeting. Summer 2003
- OTHER EXPERIENCE** **Fundamentals of Geospatial Analysis Teaching Assistant**, Fall 2007
Collaborative GIS Research. Created species distribution models to determine abiotic factors controlling color polymorphism in a native Texas wild flower.
Spring 2007
Watershed Research Assistant. Investigated nutrient retention in ponds as part of an interdisciplinary research group studying the effects of urban growth on the geochemistry and biodiversity of river systems. Summer 2002
- ADDITIONAL INFORMATION** Appalachian Trail Thru-Hike (Maine to Georgia) June 28-November 10, 2004.
Proficient in Microsoft Office suite, ArcGIS, Python, R, iMovie.