

KELLY LYNNE PEAK

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Career interests: Renewable energy; alternative technologies; energy efficiency; sustainability; water quality; environmental geology; climate change.

EDUCATION

MASTER OF ENVIRONMENTAL MANAGEMENT, May 2008

Nicholas School of the Environment and Earth Sciences
Duke University, Durham, NC

Master's project: Potential for the reclamation of water produced by US oil fields.

Concentration: Energy and the environment.

Coursework: Bringing renewables to market, energy economics and policy, world trade in energy, energy technology, energy geology, energy modeling, biodiesel, energy and the campus, transportation, air and water quality management, applied data analysis, and principles of management.

Activities: Duke University Greening Initiative, Nicholas School Energy Club.

BACHELOR OF SCIENCE, *summa cum laude*, May 2006

North Carolina State University, Raleigh, NC

Major: Environmental science. *Minor:* French. GPA 4.0 of 4.0.

Honors: Valedictorian, Departmental Outstanding Senior Award in Earth Sciences, University and Departmental Honors Programs, Dean's List, Phi Beta Kappa, Phi Kappa Phi, Phi Eta Sigma Freshman Honor Society.

Honor's project: Is there a correlation between bedrock geology and radon in indoor air or groundwater in Wake County, NC?

Study abroad: Language and culture classes in Lille, France.

PROFESSIONAL EXPERIENCE

Hydrologic Technician, NC Water Science Center, US Geological Survey, Raleigh, NC

Involved with National Water Quality Assessment Major River Basin Study of Southeast US analyzing water quality trends using the Seasonal Kendall statistical method. Made considerable input into process of optimizing application method and taught others to efficiently apply technique. Aided in creation of a data report and companion journal article. Concurrent work as field sampler of surface water quality sites. Summer 2007 began work on Piedmont Groundwater Study in mapping and logistical organization. Obtained permission to sample from homeowners and completed sampling of 20 private domestic wells.

Recipient of 3 STAR awards. 2004-2008

Student Assistant, Wake County Environmental Services Division, Raleigh, NC

Involved in data management and analysis for countywide study of radon in indoor air and groundwater. Aided in sample coordination and implementation. Prepared evaluation reports of study phases to NCDENR Radiation Protection Section and US EPA. Used data for poster presentation at Undergraduate Research Symposium and Senior Honor's Project. 2005-2006

ADDITIONAL INFORMATION

Participated in field classes to examine hydrocarbons: Production to Policy in

Houston, TX, biodiesel refinery; coal plant facilities on campus and in Roxboro, NC; wind applications at Appalachian State University; Sherron Harris Nuclear Plant educational facility; Durham Wastewater and Water Treatment Plants.

Proficient in use of Microsoft Office package, ArcMap, S-PLUS statistical software.

Familiarity with SAS, R, Adobe PageMaker and Photoshop, Dreamweaver, Linux.

USGS publication in review: Trends in Water Quality and Loads of Nutrients and Suspended Sediment for Streams in the Southeastern United States, 1973-2005 by Erik L. Staub, Kelly L. Peak, Kristen C. Tighe, Eric M. Sadorf, and Douglas A. Harned.