

Tiffany G. Wilson

Doctoral Student
Durham, NC, USA

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Education

Duke University

Ph.D. in Civil and Environmental Engineering (in Progress)

Advisor: John D. Albertson

Relevant Courses: Land Atmosphere Interactions, Ecohydrology, Hydrology Modeling for Water Quality and Quantity Assessment, Groundwater Hydrology, Intermediate and Advanced Fluid Mechanics, Pollutant Transport Systems, The Climate System, Scientific Computing, Numerical Analysis

Durham, NC

2009 – Present

Princeton University

B.S.E. in Civil and Environmental Engineering

Completed certificate in Geological Engineering

Undergraduate Thesis: Effects of Climate Change on the New York City Water Supply

Graduated Magna Cum Laude

Graduated with a 3.57 departmental GPA and 3.38 cumulative GPA

Relevant courses: Hydrology, Environmental Engineering Laboratory, Rivers and the Regional Environment, Earth Surface Processes, Water Quality, Environmental and Civil Engineering Systems Planning and Design, Structural Geology

Princeton, NJ

2003 – 2007

Teaching Experience

Fluid Mechanics

Graduate Teaching Assistant

Graded homework assignments and lab reports.

Led bi-weekly labs sessions including review of equipment and relevant concepts.

Held weekly office hours to answer student questions on labs and homework.

Duke University

August 2011 – December 2011

SAT Solutions

Teacher and Tutor

Taught two weekly 90-minute classes preparing high school students for the mathematics sections of the SAT exam.

Created lesson plans, homework solution guides, and review of course materials.

Held individual math tutoring sessions.

Medford, NJ

August 2005 – October 2006

Industry Experience

Malcolm Pirnie, Inc.

Engineer

Plantation, FL

July 2007 – July 2009

Contributed to projects and reports for the Municipal Water Environment business unit of an Environmental Engineering consulting firm.

Project experience: water treatment plant chemical system design, development of water conservation plans, water supply planning, emergency groundwater remediation, gravity sanitary sewer design, and regulatory compliance.

Regularly analyzed data using Excel, Access and ArcMap to produce graphs, charts, and maps for consulting reports.

Awards

Duke Wireless Intelligent Sensor Networks (WISeNet) Integrative Graduate Education and Research Training Fellowship (\$30,000)	2012 – 2013
James B. Duke Fellowship (\$20,000)	2009 – 2013
Pratt-Gardner Fellowship (\$9,000)	2009 – 2010
Peter W. Stroh '51 Environmental Senior Thesis Prize (\$500)	2007
W. Taylor Thom Jr. Prize in Geological Engineering (\$100)	2007
Malcolm Pirnie/UNCF Corporate Scholar (Paid Summer Internship)	2006

Participation in Workshops and Conferences

Ecohydrology and Sustainability in Seasonally Dry Ecosystems

NSF-CBET and Pratt School of Engineering, Duke University

Durham, NC

June 13 – 14, 2011

Poster: Design and testing of a low-cost plot-scale rainfall simulator in Sardinia, Italy, for calibration of a distributed hydrologic model

AGU Fall Meeting 2010

American Geophysical Union

San Francisco, CA

December 13 – 17, 2010

Poster: Design and testing of a low-cost plot-scale rainfall simulator in Sardinia, Italy, for calibration of a distributed hydrologic model

Skills

Programming and Markup Languages: C/C++, L^AT_EX

Software: MATLAB, Mathematica, MS Office (Word, Excel, PowerPoint)

Technology Platforms: Google sites, Blackboard, Sakai

Languages: English (native), Spanish (intermediate)

Service

CEE Graduate Student Council

March 2011 – present

Plan academic, professional, and social events for graduate students in Duke University's Department of Civil and Environmental Engineering.

Florida Section AWWA

June 2008 – July 2009

Region 6 Board Member and Young Professionals Chair

Christmas in July

2006 – 2009

Board member for Christmas in July, an annual event for nearly 1,000 children from homeless shelters in Broward County, Florida.

Professional Organizations and Licenses

American Geophysical Union

2010 – Present

Sigma Xi

Scientific Research Society

2007 – Present

Engineer in Training (Fundamentals of Engineering Exam)

State of Florida

October 2008

Florida Section AWWA

Broward County, Florida

2007 – 2009