

Curriculum Vitae

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EDUCATION

University of Southern California, Los Angeles, CA

Doctoral Candidate, College Doctoral Fellow

Earth Sciences: Climate Dynamics

Teaching: Climate Change (GEOL 150), 3 semesters

Coursework: Atmospheric Physics, Computational Fluid Dynamics, Data Analysis for Earth Science, Non-Linear Dynamics and Chaos, Paleoceanography, Geochemistry, The Science of Climate Change, Climate of the Common Era

Programming Proficiency: Fortran, Python, Matlab

Princeton University, Princeton, NJ

Bachelor of Science and Engineering, Spring 2010

Major: Civil and Environmental Engineering (Focus: Geological Engineering)

Minors: Environmental Studies, Geosciences

Coursework Includes: Multivariable Calculus, Linear Algebra, Physics: Dynamics and Electricity and Magnetism, Hydrology, Basic Environmental Engineering, Environmental Decision Making, Computer Science: Programming in Java, Rivers and the Regional Environment, Economics of Environmental Protection, Fundamentals of Environmental Science: Climate, Air Pollutants, Toxics, and Water, The Physical Earth, Investigating Natural Hazards, Field Marine Biology and Bio-statistics, Ocean and Atmospheric Sciences, Solid Mechanics, Differential Equations, and Fundamentals of Engineering Statistics, Sustainable Building Design, Water Pollution Technology, Field Geology.

WORK EXPERIENCE

Environmental Business Intern: NRG Energy, Inc., (Princeton, NJ) July 2009—August 2010

Develop and populate greenhouse gas and emissions inventory for company power plants

Promote company sustainability policies through monthly newsletters to employees, the “econrg” program, and presentations on the economic benefits of office sustainability

Research climate change disclosure in 10-K filings to the SEC by competing energy providers

Analyze climate change legislation and summarize rulings affecting the company

Report on EPA data involving power plants owned by NRG (within the EPA’s ECHO database)

Visit power plants to learn about electricity production and reduce thermal pollution

Land Stewardship Intern: D&R Greenway Land Trust, June 2007—August 2007

Full time (40 hours/week) for duration of internship.

Maintained and monitored conservation easements (check for signs of illegal activities such as hunting, foresting, etc.) and built new trails

Removed invasive species from land preserves

Prepared for Land Trust benefits and other media events

Involved extensive training in New Jersey ecosystem and wildlife protection

Post Doctoral Research Assistant: to Bethany Bradley (Woodrow Wilson School of Public Policy and International Affairs), December 2008—July 2009. Part time (10 to 20 hours/week) for duration.

Used ArcGIS to digitize spatial maps of 12 invasive plants west of the Mississippi River

Contacted all county council officials who participated; sent letters of recognition and thanks

Utilized excel and ArcGIS mapping programs to complete project—maps will be used to model the effects of climate change on invasive species cover in the U.S.

Society of Women Engineers Fall 2006 -Present