

Heather Sprague, EIT

230 J Street Apt 10 • Davis, CA 95616 • (864) 494 6488 • hmsprague@ucdavis.edu

EDUCATION

University of California – Davis, California

June 2015

Masters of Science in Civil and Environmental Engineering
Emphasis in Water Resources Engineering

GPA: 3.94/4.00

Clemson University – Clemson, South Carolina

May 2013

Bachelor of Science in Biosystems Engineering
Emphasis in Ecological Engineering
Minor in Mathematical Science

GPA: 4.00/4.00

CURRENT PROJECTS

University of California, Davis – *Graduate Student Researcher*

Fall 2013 – present

- Investigate mechanisms of dissolved oxygen movement in the hypolimnion of Lake Tahoe
- Analyze water quality data collected via real-time, high resolution sensor array consisting of thermistor chain, pressure sensor, and dissolved oxygen sensor
- Utilize programming software to perform mathematical analyses, including FFT and wavelet procedures

Sherwood Design Engineers – *Blogging Intern*

Summer 2014 – present

San Francisco, California

- Write technical blogs regarding sustainability topics with a focus on current Sherwood projects

RELATED EXPERIENCE

Clarkson University NSF Research Experience for Undergraduates – *Researcher*

Summer 2012

Potsdam, New York

- Designed, conducted, and presented research project with Dr. Michael Twiss entitled *Water quality assessment of the St. Lawrence River using high resolution sensor arrays*
- Participated in sustainability seminar comprising of lectures and industry tours

Santee Cooper Environmental Intern Program – *Intern*

Summer 2011

Moncks Corner, South Carolina

- Conducted week-long research project regarding alternative energy solutions, resulting in a presentation to the CEO
- Inspected locations around the state in “POWER For Wildlife” program
- Sampled groundwater for testing at remediation and governmental compliance sites
- Performed air quality test of stack gas for verification of automated system

LEADERSHIP EXPERIENCE

Society of Women Engineers (SWE) – *Mentor, Member*

Fall 2011 – present

- Establish weekly meetings to advise freshman girls in academic, social, and personal issues
- Help execute SWE events and act as unofficial graduate student liaison
- Attended last three National and Regional SWE leadership conferences

Biosystems Engineering (BE) Student Club – *President, Member*

Fall 2010 – Spring 2013

- Planned industry tours, outreach events, and social gatherings for BE students, including biannual Adopt-A-Highway
- Coordinated monthly meetings for students to network within the major while learning about future opportunities in BE via presentations by professionals in the field

Women in Science and Engineering (WISE) – *Mentor*

Fall 2010 – Spring 2013

- Mentored groups of fifteen freshman girls in WISE by advising them in academic, social, and personal issues
- Planned and implemented monthly social events for WISE members as Committee Chair
- Recruited high school students to Clemson University via shadowing experience events on campus

HONORS, AWARDS, AND AFFILIATIONS

- National Science Foundation Graduate Research Fellowship
- American Water Works Association (AWWA) Member
- Fletcher Jones Fellowship
- Jeffrey and Marsha Gibeling Fellowship
- Samuel B. Earle Award for Most Outstanding Senior in Engineering

Summer 2014 – present

Fall 2013 – present

Fall 2013 – Spring 2014

Fall 2013 – Spring 2014

Spring 2013

COMPUTER SKILLS

ArcGIS

AutoCAD

HEC Software

MATLAB

Microsoft Office