

Abigail DOMMER

scientist | full-stack web developer

SPECS

Age: 24 years

Gender: female

Type: INTJ

Hometown: Columbus, OH

Why I love tech: for the freedom to be a perpetual student, to solve problems, and to create beautiful things

Personal Mission: to build tech for STEM education that improves the way we teach, learn, and inspire

MY CUP OF TEA

Education

Molecular orbital theory

Greek epic poetry

Data visualization

Ernest Hemingway

Ashtanga yoga

Ocean & atmospheric science

Travel

CONTACT



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EDUCATION

CodingDojo Los Angeles, CA | 2016

Onsite Flex Bootcamp: HTML/CSS, Ruby on Rails, LAMP, MEAN

University of California, San Diego, CA | 2014-2016

M.S., Physical Chemistry

Washington University, St. Louis, MO | 2010- 2014

A.B., Chemistry | minor, Greek language & literature

The Ohio State University, Columbus, OH | 2008-2010

PSEO | art, philosophy, political theory

Pratt Institute, Brooklyn, NY | 2008

Summer Intensive, Fine Arts

Reynoldsburg High School, Reynoldsburg, OH | 2006-2010

Valedictorian

RESEARCH

Sea surface chemistry and its effects on the atmosphere | 2014-2015

Dr. Kimberly Prather, Dr. Grant Deane. UCSD, Scripps Institution of Oceanography, San Diego, CA.

Effects of growth media on photosynthetic machinery | 2012-2014

Dr. Robert Blankenship. Washington University in St. Louis, MO.

PUBLICATIONS

A miniature Marine Aerosol Reference Tank (miniMART) as a compact breaking wave analogue

Atmospheric Measurement Technology, 2016

Detection of unique biological nanostructures in sea spray using cryogenic transmission electron microscopy

ACS Central Science, 2016

SELECTED SKILLS

PROGRAMMING

JavaScript/ MEAN

HTML & CSS

Ruby/ Rails

PHP/ LAMP

TDD

DIGITAL & FINE ART

Adobe CS

Life drawing

Technical illustration

LABORATORY

Spectroscopy

Chromatography

MATLAB

Safety

Protein purification

WRITING & EDITING

Research papers

Grant proposals

Microsoft Office

WORK

High School Science Teacher | 2015-2016

Pacific Academy, Encinitas, CA. Courses taught: Advanced Placement (AP) biology, biology, physics, algebra II, middle school life science, and art. Implemented various project based learning (PBL) practices in the classroom. Responsible for marketing and science night events. Built a biology program from scratch.

Graduate Teaching Assistant | 2014-2015

Department of Chemistry and Biochemistry, University of California, San Diego. Course taught: Physical Chemistry lab. Managed cohort of 15-20 students every two weeks, graded research papers and presentations, lectured on written and oral scientific communication skills.

Student Research Assistant | 2011-2014

Biology Department, Washington University in St. Louis, MO. Worked in the lab of Dr. Robert Blankenship and in the lab of Dr. Barbara Kunkel. Assisted in maintaining laboratory stock solutions of media, glassware, buffers, and supplies. Completed various research projects.

Chemistry Library Assistant | 2012-2013

Chemistry Department at Washington University in St. Louis, MO. Aided visitors in locating scientific resources, including scientific journals (online and print), books, and reference materials.

ACTIVITIES

CLEAR-CAICE Mentor | 2015

Mentorship for CLEAR-CAICE, a pilot high school atmospheric science program for the Center for Aerosol Impacts on Climate & the Environment (CAICE) at UCSD. Mentored local high school students with a student-led research project relating to aerosol chemistry.

Eta Sigma Phi President | 2012-2013

President of Classics honorary for students of Greek and Latin. Increased membership threefold by taking over member recruitment. Increased enrollment in Classics Department courses. Facilitated communication between students and faculty and led weekly meetings to promote interest and participation in the Classics. Initiated discussions for partnering with local schools and increasing community involvement.

39th Annual Midwest/Southeast Photosynthesis Meeting | 2013

Poster presented on carotenoid variation in photosynthetic organism *Roseiflexus castenholzii* (RFX).

Fall Undergraduate Research Symposium | 2013

Washington University in St. Louis. Poster presented on carotenoid variation in RFX.

REFERENCES

1. Dr. Grant Deane | Mentor & Co-Advisor 2014-2015

Research Oceanographer, Scripps Institution of Oceanography
Tel: 858-534-0536 | E-mail: gdeane@ucsd.edu

2. Dr. Dale Stokes | Mentor 2014-2015

Researcher, Scripps Institution of Oceanography
Tel: 858-822-2608 | E-mail: dstokes@ucsd.edu

3. Dr. Erica Majumder | Mentor 2012-2014

Post-Doctoral Fellow, University of Missouri
Tel: 314-307-0527 | E-mail: erica.majumder@gmail.com