

Rachel Schweiker

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EDUCATION

Boston University College of Arts and Sciences; Boston, MA Sept 2009 – May 2013
Bachelor of Arts in Marine Science
Minors in Geography and Biology
GPA 3.92/4.0, Summa Cum Laude
Test Scores: GRE = 164/160 (M/V) SAT = 780/640 (M/V)

Universidad San Francisco de Quito; Quito, Ecuador Jan – May 2012
BU study abroad Tropical Ecology Program

EXPERIENCE

Understory Weather; Somerville, MA Feb 2015 – Present
GIS Intern

- Analyze and visualize data collected by dense networks of small weather stations
- Publish weather data visualizations for Boston.com, WBZ Boston News, front page of Hacker News
- Improve spatial interpolation methods, calculate accuracy of sensors and find corrections
- Create white papers and brochures for marketing, mock-up UI/UX designs
- Analyze census data to advise new station sites

Max Delbrück Center for Molecular Medicine; Berlin, Germany June 2013 – Sept 2014
Lab Technician; AG Poy: MicroRNA and Molecular Mechanisms of Metabolic Diseases

- Microscopic image acquisition and analysis, data organization and figure preparation
- Lab website development, manuscript editing, data presentations, ordering, animal handling, genotyping
- Recruited and trained four new lab technicians

Dr. Finnerty's Genomic Biology Laboratory; Boston, MA June 2012 – May 2013
Undergraduate Research Opportunity Program (UROP) Fellow

- Online database formatting using Python, HTML, CSS
- Heat stress and growth trials, RNA isolation and library preparation for mRNA sequencing
- Presented findings at an undergraduate research fair and an annual genomic conference

ACTIVITIES & AWARDS

SKILLS & INTERESTS

Marine Science Association, Treasurer	Sept 2012 – May 2013	Technical: QGIS, R, ArcGIS 10, ENVI, Git, Inkscape, HTML, CSS, Image J, Wordpress, Mapbox, Microsoft Office
Excellence in Marine Science (Top GPA in Major)	May 2013	
Phi Beta Kappa	May 2013	Relevant courses: Remote Sensing, Digital Image Processing, Intro to GIS, Marine GIS, Probability and Statistics, Intro to Programming, Calculus, Physics, Environmental Science
Marine Science Graduation Student Speaker	May 2013	
Boston University Marine Lab Tour Guide	Feb – March 2013	
Boston University CAS Dean's List	Jan 2010 – May 2013	Extracurricular: rock climbing, cycling, ultimate frisbee, sailing, skiing, travelling
The University Scholarship	Sept 2009 – May 2013	
Boston University Marine Semester	Sept – Dec 2011	Language: fluent English, reading and conversational Spanish, basic German