

William Gagne-Maynard

will.maynard@gmail.com

wgagne-maynard.github.io

413-539-4377

EDUCATION

University of Washington, Seattle, WA

M.S. in Chemical Oceanography, Sep. 2013 – Current

GPA: 3.6

- Certificate in Advanced Data Science
- Graduate level coursework: Database Systems, Data Visualization, Machine Learning, Geospatial Analysis

Carleton College, Northfield, MN

B.A. Chemistry, June 2013. *Cum Laude*

- Coursework: Data Structures, Statistical Thermodynamics, Multi-variable Calculus

PROFESSIONAL EXPERIENCE

Research Assistant 2013-2015

School of Oceanography, University of Washington

- Cleaned and analyzed environmental cruise data and managed all data quality and storage.
- Migrated our proteomics analysis pipeline and data warehousing to AWS using Amazon's EC2 and S3 services.
- Generated maps and data visualizations for public dissemination

Research Intern Aug. 2012-Nov. 2012

Office of Groundwater – Branch of Geophysics, USGS

- Installed accelerometers and analyzed the correlation between stream discharge and seismic signals.
- Used Python and R to compile, analyze and display data from stream gauges and accelerometers as well as online USGS data.

Research Intern Jun. 2012-Sep. 2012

College of Earth, Oceans and Environment, University of Delaware

- Implemented field sampling campaign to study point source pollution in a local estuary.

- Developed R scripts to analyze continuous nutrient and tidal measurements
- Generated a 20-page report on nutrient cycling within the Murderkill estuary in Delaware.

Science Education Counselor May 2011-Sept. 2011
National Association of Geoscience Teachers

- Managed webpage content through HTML and CSS development.
- Assisted in writing grants for educational research projects.

PROJECTS

Metagenome Explorer: <https://github.com/CSE512-15S/fp-cnoecker-engal-cmcn-wgagne-maynard>

Developed an interactive visualization using D3.js and JavaScript for the exploration of metagenomic data sets. This tool allows researchers to interactively explore nested data and the relationships between them.

PROGRAMMING AND SOFTWARE EXPERIENCE

Python – 5 years (web scraping, Pandas, scikit-learn)

JavaScript – 1.5 years (D3, data mining and visualization)

Java – 2 years (Data mining and data structures)

SQL – 2 years (MongoDB, PostgreSQL, database querying)

R – 2 years (Statistical modeling, data cleaning)

UNIX Shell – 4 years

AWS – 1 year (EC2, S3)

Git – 2 years (Version control, remote collaboration)

Tableau – 1 year (Data visualization)

ArcGis – 2 years (Geostatistics, pattern analysis)