

Cameron Afzal

cma252@cornell.edu

310 Farm St #2e, Ithaca, NY 14850

cell: 419-450-9726

EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Master of Engineering in Environmental & Water Resources Systems

Expected December 2018

University of Puget Sound, Tacoma, WA

Bachelor of Arts in Philosophy, Minor in Environmental Policy

May 2013

Selected Coursework: Computer Science and Programming Using Python (MITx, SU '18) • Object-Oriented Programming and Data Structures (SU '18) • Computational Optimization (FA '18) • Decision Analysis (FA '18) • Machine Learning (FA '18)

SPECIALIZED SKILLS

Programming: Optimization, algorithms, data analysis, modeling. Proficient in Python, R, and Java.

Communication: Writing, public speaking, presentations. **Languages:** English, Spanish (fluent)

RELEVANT EXPERIENCE

Research Intern, *Water Resources Institute*, Ithaca, NY

Summer 2018

- Programmed algorithms to optimize models for a hydrology research project.
- Explored new methods for integrating Markov Chain Monte Carlo algorithms and other programming methods with water resources analysis.
- Collected and analyzed environmental data to inform models.
- Lead author on prospective journal article describing research findings.

CS 2110, *Dept. of Computer Science*, Cornell University

Summer 2018

- Wrote a series of non-trivial programs in an intermediate programming course.
- Coding assignments covered recursion on trees, linked list operations, heaps, and object-oriented programming.
- Other assignments involved analysis of algorithms, graphs, and data structures.

California Snowpack Modeling, *Dept. of Biological and Environmental Engineering*, Cornell University

Spring 2018

- Programmed hydrologic models and model calibration algorithms in R to analyze climate projections.
- Evaluated prospective impacts of altered climate on California's water supply.

OTHER EXPERIENCE

Environmental Planning Intern, *Philadelphia Water Department*, Philadelphia, PA

Summer 2017

- Performed green stormwater infrastructure site planning using ArcGIS and Excel.
- Analyzed data for improving water system assessment.
- Wrote policy analysis for the Water Department's Strategic Plan.

Agricultural Extension Volunteer, *U.S. Peace Corps*, Paraguay

Fall 2013 to Winter 2015

- Organized community groups and education campaigns.
- Presented about agricultural and environmental issues.
- Built a school library and community garden.

LEADERSHIP EXPERIENCE

President, *Peace Corps Library Committee*, Paraguay

2015

- Led national literacy and book distribution projects.

Project Manager, *Peace Corps Partnership Grant*, Paraguay

2015

- Organized and managed an agricultural community development grant.

ACTIVITIES/INTERESTS

Writing; hiking; landscapes of the American West; rock climbing; travel.