

ELI R. BARBER

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EDUCATION

University of Arizona
M.S. Mechanical Engineering

Tucson, AZ
August 2019 – May 2021

Bowling Green State University
B.S. Environmental Science

Bowling Green, OH
August 2015 – May 2019

- Minor in mathematics with a specialization in GIS

PROFESSIONAL EXPERIENCE

Pima Community College
Adjunct Faculty Mathematics

Tucson, AZ
December 2021 – Present

- Developed, delivered, and reviewed course material and syllabi.
- Graded exams, quizzes, honors projects, and other student work.
- Created classroom or online environments where students may actively participate and learn.

University of Arizona
Graduate Teaching Assistant

Tucson, AZ
August 2020 – May 2021

- Assisted faculty members by leading laboratory sections to supplement lectures.
- Held office hours for students to answer questions or offer additional assistance.
- Provided input for assignments and graded exams and student work.

AmeriCorps
AmeriCorps Serve Member

Tucson, AZ
June 2020 – August 2020

- Served local youth through the Boys and Girls Club to provide various learning activities.
- Led educational activities to promote summer learning and prepare students to go back to school.

Ohio Environmental Protection Agency
Groundwater Intern

Bowling Green, OH
June 2019 – September 2019

- Enhanced the Ohio EPA's Source Water Assessment Program maps and conducted regular fieldwork to track public water systems.
- Developed OEPA's Source Water Assessment Program GIS database and online mapping tool.

Bowling Green State University
Math Tutor

Bowling Green, OH
September 2017 – May 2019

- Tutored undergraduate students individually or in group sessions to review mathematic principles, solve problems, and review for tests.
- Helped students develop math, study, and general academic skills.

Ohio Department of Transportation
Environmental Intern

Bowling Green, OH
May 2016 – December 2017

- Evaluated over 100 transportation projects under National Environmental Policy Act (NEPA) guidelines to ensure infrastructure was in environmental compliance.
- Mapped and scoped project locations using GIS.
- Surveyed over 50 construction areas for potential wildlife impacts.

CERTIFICATIONS & CONTINUING EDUCATION

FreeCodeCamp
Full Stack Certification (1800 hours)

freecodecamp.org
September 2022

FreeCodeCamp
Data Analysis with Python Certification (300 hours)

freecodecamp.org
May 2022

FreeCodeCamp
Scientific Computing with Python Certification (300 hours)

freecodecamp.org
February 2022

Pima Community College
AAS Automotive Technology

Tucson, AZ
January 2022 – Present

Zero To Mastery
Complete React.js Developer (w/ Redux, Hooks, Graph QL)

udemy.com
In Progress

SOFTWARE & PROGRAMMING

Software: ArcGIS, QGIS, ENVI, Autodesk, AutoCAD, Linux OS, MATLAB, VS Code, Google Collab, Microsoft Office, Adobe

Software: Python (pandas, NumPy, Matplotlib, Seaborn and TensorFlow packages), MATLAB, C++, C#, JavaScript, HTML, CSS, LaTeX, D3, React.js, Node.js, Express, MongoDB, Mongoose, Chai, Bootstrap, jQuery