

# Eli Barber

Adjunct Math Faculty, PCC  
M.S. Mechanical Engineering  
B.S. Environmental Science

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## Professional Experience

### Adjunct Faculty | Mathematics

August 2021 - Present  
Pima Community College | Mathematics Department

Teach introductory mathematics classes to approximately 30 community college students.

- 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.

### Graduate Teaching Assistant

August 2020 - May 2021  
University of Arizona | Physics Department

Taught two sections of an undergraduate Physics laboratory to 40 students.

- 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 Serve Member

June 2020 - August 2020  
AmeriCorps | Boys and Girls Club of Tucson

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.
- Ensured COVID-19 prevention strategies were adhered to daily.

### Groundwater Intern

May 2019 - August 2019  
Ohio Environmental Protection Agency | Drinking Water

Enhanced the Ohio EPA's Source Water Assessment Program (SWAP) and maps, and conducted regular fieldwork to track public water systems.

- Developed OEPA's Source Water Assessment Program GIS database and online mapping tool.

## Education

Master of Science in Mechanical Engineering

University of Arizona | 2021

Bachelor of Science in Environmental Science

Minor in Mathematics

Bowling Green State University | 2019

Full Stack Certification  
(1800 hours)

freeCodeCamp.org | September 2022

Scientific Computing with Python  
Certification (300 hours)

freeCodeCamp.org | February 2021

Data Analysis with Python  
Certification (300 hours)

freeCodeCamp.org | May 2021

## Software

ArcGIS, QGIS, ENVI, Autodesk, AutoCAD, Linux OS, MATLAB, VSCode, Google Colab, Microsoft Office, Adobe

## Programming

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

## Professional Experience

### Math Tutor | Mathematics

September 2017 - May 2019

Bowling Green State University | Learning Commons

Tutored undergraduate math students part-time while pursuing a bachelor degree.

- 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.
- Assisted students in Algebra, Calculus, and Statistics classes.

### Environmental Intern

May 2016 - December 2017

Ohio Department of Transportation | Planning and Engineering

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.
- Co-authored roughly 30 culture and ecological reports.
- Surveyed over 50 construction areas for potential wildlife impacts.