

CAMILLE ZAUG

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EDUCATION

Ph.D. Applied Mathematics

University of Washington

📅 Fall 2020 - Present

📍 Seattle, WA

GPA: 3.93

Focus: Data science

Expected graduation: 2025

Select Coursework:

- AMATH 584: Applied linear algebra and intro to numerical analysis
- AMATH 563: Inferring structure of complex systems

B.S. Mathematics, Chinese Minor

B.A. Physics

Seattle University

📅 Fall 2016 - Spring 2020

📍 Seattle, WA

Summa cum laude

GPA: 4.0

Alpha Sigma Nu

Sigma Pi Sigma

Select Coursework:

- MATH 3910: Statistical modeling
- MATH 3450: Introduction to numerical methods

RELEVANT WORK EXPERIENCE

Software Engineering and Development Intern

Creative Creek

📅 Summer 2020

📍 Remote

- Developed software in Python and C++ to import XML-formatted data from financial documents into accounting application
- Utilized object-oriented design to parse file descriptions, promote file compatibility, and extract information from bank statements
- Interfaced database with application and wrote SQL queries to import data, perform quantitative analysis, and generate reports

Computer Science Summer Immersion Program Instructor

Girls Who Code

📅 Summer 2020

📍 Remote

- Taught HTML, CSS, and JavaScript through project-based learning to approximately 180 high school girls in 6 virtual sessions to inspire a love of coding and spark a lasting interest in computer science
- Managed a team of 3-4 teaching assistants to build interactive coding demos to teach web development and best practices
- Provided 30+ hours of one-on-one mentorship to students modeling pair programming, program design, and debugging tools/techniques

Mathematics Research Assistant

Seattle University

📅 2018-2020

📍 Seattle, WA

- Leveraged Azure cloud computing and Python to perform 50+ hours of simulation modeling surface waves across the Pacific Ocean
- Used real-world wave data to determine which numerically implemented nonlinear models accurately describe swell evolution
- Communicated results to scientific community at professional conferences, gave invited talk at the University of Washington (2019)

SELECT PROJECTS

Portfolio Website

Designed, created, and deployed a personal interactive resume using Vue.js, HTML, CSS, and JavaScript

Housing Prices Competition

Implemented statistical modeling and machine learning techniques in R to predict housing prices for Kaggle competition

Timbre Synthesizer

Built a program and GUI with an object-oriented framework in Python to allow users to create musical tones and experiment with the sound and timbre

LANGUAGES

Programming Languages

Proficient

Python

MATLAB

Experienced

C++

SQL

JavaScript

HTML

CSS

R

Julia

Spoken Languages

Mandarin Chinese

Spanish

AWARDS



President's Award, 2020

Highest academic award at Seattle University. Given to one graduating senior who maintained the highest grade point average throughout their undergraduate degree



Best Poster Award, 2019

Society of Industrial and Applied Mathematicians Pacific Northwest Sectional Meeting, October



Bannan Scholar, 2018-2020

Two-year scholarship and service program for STEM students with a GPA of 3.5 or higher and a demonstrated commitment to service

PUBLICATIONS

C. R. Zaug and J. D. Carter, "Dissipative models of swell propagation across the Pacific," *Submitted to Studies in Applied Mathematics*, 2020.

N. Pelle, L. Ehinger, C. R. Zaug, and W. J. Kim, "An autocollimator with sub-microradian sensitivity," *American Journal of Physics*, 2020.