

Davis Hunter

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Education

BS, Applied & Computational Mathematics Emphasis (ACME)

April 2025

Brigham Young University

Provo, Utah

- Concentration: Computer Science
- GPA: 3.85, Academic Scholarship, Dean's List 2023
- BYU's ACME Program received American Math Society's 2024 Award for Exemplary Program
- Relevant Coursework:

Linear and Nonlinear Analysis	Theory of Analysis
Computation and Optimization	Multivariable Calculus
Mathematical Programming	Differential Equations

Skills

- Proficient in Python, C++, Java, Javascript, Unix Shell, and SQL
- Experience in PyTorch, Numpy, Matplotlib, and SciPy Python Libraries
- Junior Year Skills

Deep Learning	Gaussian Quadrature
Computer Vision	Page Rank Valuations
Numerical Optimization	Importance and Rejection Sampling
Dynamic Optimization	Thompson Sampling
QR and Singular Value Decompositions	Fourier Analysis
Numerical Linear Algebra	Wavelets

Experience

Tutor

April 2023 - Current

Brigham Young University

Provo, UT

- Cultivate professional relationships with collegiate athletes
- Tutor athletes in mathematics and computer science

Lead Teaching Assistant and Course Developer

June 2022 - April 2023

Brigham Young University

Provo, Utah

- Helped create BYU's new introductory coding class CS 110 - How to Program
- Produced 25 engaging computer lab activities intended to develop the student's ability to code in Python
- Implemented an automated grading system for each lab assignment
- Mentored and tutored individual students needing additional help
- Lectured class when the professors were unavailable
- Taught bi-weekly review sessions under guidance of senior instructors
- Nominated for BYU student employee of the year
- Course Website: <https://fall2022.byuics110.org/>

Relevant Projects

Personal Website

December 2023

- Created a personal website using html, css, and javascript
- Visit to see some more of my personal projects
- Link: davishunter.click

Harmonizer

December 2022

- Designed a harmonizer, a musical instrument that shifts the pitch of an audio signal to produce harmonies in real time
- Uses the Fourier Transform to recreate the timbre of an audio signal
- Built with the Pygame and sounddevice Python Libraries
- Github: <https://github.com/kingarthurdavis78/harmonizer>