

Kevin Corcoran

Github : <https://www.github.com/kevin-corcoran>

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EDUCATION	University of California, Santa Cruz (2020-2022) <i>Masters of Science, Applied Mathematics</i>
	University of California, Berkeley (2017-2019) <i>Bachelor of Arts, Applied Mathematics (Numerical Analysis)</i>
	Butte College (2015-2017) <i>Associates of Arts, Mathematics</i>
TECHNICAL SKILLS	Languages : Python, C++, Java, Julia, MATLAB Familiar : Latex, Bash, Arduino, Raspberry Pi, Fusion 360, Scheme, MySQL, pygame
EXPERIENCE	Teaching Assistant: Mathematical Methods for Engineers II) Winter 2021 Planned and facilitated weekly discussion sections. Emphasized conceptual understanding through carefully chosen practice problems, held office hours and graded exams.
	Teaching Assistant: Mathematical Methods for Economists II) Fall 2020 Planned and facilitated weekly discussion sections. Emphasized conceptual understanding through carefully chosen practice problems, held office hours and graded exams.
	Tutor: SY Academy Spring 2020 - Summer 2020 Tutor for small weekly groups at the college level. Topics include calculus, linear algebra, and computer science taught in C++ and Java. I prepare short lectures, help with homework, and provide additional practice problems.
	Homework Reader: MATH 104 - Real Analysis Summer 2020 One of two homework readers for a class of 80 students in UC Berkeley's upper division, proof-based real analysis course.
	Homework Reader: MATH 128A - Numerical Analysis Summer 2019 Graded weekly homework for 36 students in UC Berkeley's upper division, first semester course in numerical analysis.
	STEM Instructor: United Technologies for Kids (UTK) Summer 2019 Taught the basics of Arduino and 3D modeling to High School age kids in Chinchu, Peru. Developed instructional material, and Arduino code, for a 3D printed electric motor.
	Homework Reader: MATH 110 - Linear Algebra Summer 2018 Graded weekly homework for 36 students in UC Berkeley's upper division, proof-based linear algebra course.
	Academic Intern: CS61A Spring 2018 Assisted students in Berkeley's introduction programming course (Structure and Interpretation of Computer Programs) at weekly lab and group office hours with homework, projects and lab assignments.
PROJECTS	Trash Sorting Computer Game Summer 2018 Made a Tetris inspired sorting game as an instructional tool for a Waste Management role held in cooperative housing. Link : https://github.com/kevin-corcoran/WRM_Game

Food Computer**Spring 2018**

Built a version of MIT's open sourced food computer made of out cardboard and hydroponically grew a tomato plant. Done in interest of social issues surrounding winter tomatoes grown in Florida.

Link : <https://github.com/kevin-corcoran/cardboardfood>

Physics Project**Spring 2017**

Wrote a program in C++ to efficiently find all equivalent resistances, and output the circuit, given some number of resistors of equal resistance.

Link : <https://github.com/kevin-corcoran/resistance>

Logic Game**Fall 2016**

Wrote a text-based fantasy game for learning the basics of symbolic logic.

**AWARDS AND
HONORS**

- Outstanding Student of Physics
- Mathematics Honors (Butte College)

Spring 2017**Spring 2017****TECHNICAL
COURSES**

Computer Science and Electrical Engineering: Data Structures, Fourier Analysis, Designing Information Systems and Devices, Optimization

Mathematics: Linear Algebra, Numerical Analysis, Abstract Algebra, Real Analysis, Complex Analysis, Numerical Solutions to Differential Equations, Partial Differential Equations

Physics: Electromagnetism and Optics, Quantum Physics, Quantum Computing