

EDUCATION

Brown University, Providence, RI

Bachelor of Science, Expected Graduation: May 2023

Major: Mathematics and Computer Science (BS), Applied Mathematics (BA)

GPA: 4.00

San Ramon Valley High School, Danville, CA

High School Diploma, Graduated: May 2019

GPA: 4.58 (3.98 Unweighted)

Directed Reading, San Ramon Valley High School, Danville, CA

Subject Covered: Abstract Algebra + Applications

Book: *Topics in Algebra* by I.N. Herstein

Teacher: Nicholas Meyer

Johns Hopkins University CTY Online, Baltimore, MA

Courses: Multivariable Calculus, Linear Algebra, Differential Equations, Introduction to Abstract Math, Introduction to Real Analysis (Audit), AP Statistics

EXPERIENCE

Department of Mathematics, Brown University, Providence, RI

Undergraduate Research Assistant, May 2020 – August 2020

- Studied a class partial differential equations (PDEs) known as solitary wave equations using techniques from numerical analysis under Professor Holmer in Brown University's Department of Mathematics
- Approximating solutions and analyzing the properties of solitons using Python simulations
- Received funding through Brown's SPRINT award, a competitive award used to fund summer research

Department of Mathematics, Brown University, Providence, RI

Teaching Assistant, January 2020 – Present

- Presenting concepts in advanced math subjects such as linear algebra, metric spaces, measure theory, and real analysis (MATH 520 and MATH 1130) to groups 15+ undergraduates students during weekly office hours
- Work with undergraduate students on an individual basis during weekly office hours
- Grading weekly homework through Gradescope

Imagineering, San Ramon Valley Education Foundation, San Ramon, CA

Teacher & Mentor, August 2017 – May 2019

- Designed classes introductory classes in 3D design and engineering for students of ages 7-14
- Taught classes of 15 students in range of STEM topics
- Provided one-on-one support to students enrolled in the classes

PROJECTS

FrickFrackFractal

- Interactive fractal generator coded in Java
- Fractal generation through the Iterated Function Systems (IFS) method
- Large GUI component to allow user more freedom when creating fractals

TECHNICAL AND LANGUAGE SKILLS

Python, Java, LaTeX, MS Office (Excel, PowerPoint, Word), Google Tools (Docs, Sheets), Spanish (Español), Hindi (हिन्दी), Urdu (اردو)