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OBJECTIVE

To deeply pursue mathematics in a way that benefits those around me. Effective communication in math is essential to sharing and developing our knowledge. I strive in particular for excellence in teaching and outreach, diversity and representation of underserved groups, and for strong, collaborative research.

RESEARCH INTERESTS

Broadly speaking, I have interests in geometry, topology, and group theory. I also have a personal interest in computational and interactive visualizations for both educational and research purposes.

EDUCATION

University of California, Santa Cruz

B.A. in Pure Mathematics, graduate coursework in progress

Aug 2017 – Current

College of the Canyons, Valencia, CA

Associates in Science for Transfer, Mathematics

Feb 2016 – Jun 2017

Associates in Science for Transfer, Physics

Dec 2016

Jun 2017

TEACHING EXPERIENCE

MathILy-Er Assistant Instructor

Bowdoin College, Brunswick, ME

5 weeks, July 2018

Class Tutor, UCSC

Math 103A: Complex Analysis

Winter 2019

Math 100: Intro to Proofs and Problem Solving

Winter 2019

Math 103A: Complex Analysis

Spring 2018

Math 110: Number Theory

Spring 2018

Math 103A: Complex Analysis

Winter 2018

Math 23B: Vector Calculus

Winter 2018

Math 100: Intro to Proofs and Problem Solving

Fall 2017

Teaching Assistant: Business Calculus, College of the Canyons

Spring 2017

Private Tutor: K-12 and college mathematics

Aug 2015 – Current

Club Z! Tutoring: K-12 and adult reentry tutor

Jan 2017 – Jun 2017

My Kids Tutoring: K-12 Math Tutor

Oct 2015 – Jun 2016

MATHEMATICS AND OUTREACH

Senior Thesis *in progress*

Topic: Algebraic topology, final topic TBD

Winter – Spring 2019

Advisor: Dan Cristofaro-Gardiner

Joint Mathematics Meeting 2019, Baltimore

Jan 2019

Directed Reading Program

Projective varieties and other basic algebraic geometry

Spring 2018

LGBTQ+ in Math

Club co-founder and president

Winter 2019

DRP Talk

“Projective Varieties and the Grassmannian”

Jun 2018

Math Club Talk

“Translating functions is cool, but how do we *rotate* them?”

May 2018

AWARDS AND HONORS

UCSC Dean’s Honor

Fall 2017, Winter 2018

The College Board: AP Scholar with Honor

2015

Saugus High Journalism: Awards for reporting, editing, and web development

2015

Hart District ROP: Outstanding Student – “Engineering Technologies”

2014

SKILLS AND ADDITIONAL EXPERIENCE:

Programming: Python, Sage and Jupyter, three.js, C, C++, JavaScript, HTML, PHP

Media: LaTeX, 3D Graphics, Photoshop, Web development

Church Camp Counselor: Summers of ‘11 ‘12 ‘13 and ‘14