

<b>EDUCATION</b>	<b>M.A. Mathematics</b>	June 2022
	<i>University of California–Santa Cruz, Santa Cruz, CA</i>	
	<b>B.S. Physics, Mathematics</b>	May 2013
	<i>University of Iowa, Iowa City, IA</i>	
<b>WORK EXPERIENCE</b>	<b>Directed Reading Program Mentor</b>	March - June 2022 (Spring quarter)
	<i>U.C. Santa Cruz, Mathematics Department, Santa Cruz, CA</i>	
	<ul style="list-style-type: none"><li>• Paired with an undergraduate student mentee, with whom I developed a suitable reading/research plan that was accessible and relevant to their interests</li><li>• Met weekly to gauge progress, provide readings, structure, perspective, feedback, and mentorship</li><li>• Assisted the mentee in developing a talk about the readings given at the end of the quarter</li></ul>	
	<b>Teaching Assistant</b>	November 2019 - June 2022
	<i>U.C. Santa Cruz, Mathematics Department, Santa Cruz, CA</i>	
	<ul style="list-style-type: none"><li>• Classes (by quarter, F := Fall, W := Winter, Sp := Spring, Su := Summer):<ul style="list-style-type: none"><li>– MATH 19A (Calculus for STEM) F 20, W 21</li><li>– MATH 19B (Calculus for STEM) Sp 22, F 19, F 21</li><li>– MATH 23A (Vector Calculus) W 22, W 20, Sp 20, Sp 21</li><li>– MATH 24 (Ordinary Differential Equations) Su 21</li><li>– CMMU 30 (Numbers and Social Justice) Su 20</li></ul></li><li>• Held section 1-3 times a week, and weekly office hours</li><li>• Graded homework, quizzes, and exams</li></ul>	
	<b>Lead Teaching Assistant</b>	November 2020 - Mar 2022
	<i>U.C. Santa Cruz, Mathematics Department, Santa Cruz, CA</i>	
	<ul style="list-style-type: none"><li>• Classes: MATH 19A, 19B, 23A, various quarters</li><li>• Managed 3-5 other TA's: organize a weekly schedule of sections and office hours; divide grading, reviews and other duties; communicate between TA's, professors, and students</li><li>• Tech support for other TA's and students (Zoom, Canvas, Google suite, online e-book/HW portal (MacMillan Launchpad, Achieve))</li><li>• Organized, moderated, and facilitated participation in online discussion forums for students (Piazza, Discord Slack, Zulip, etc.)</li></ul>	
	<b>Tutor</b>	November 2019 - March 2020
	<i>Prison Inmate Education Project, Santa Cruz County Jail, Santa Cruz, CA</i>	
	<ul style="list-style-type: none"><li>• Tutored inmates at the Santa Cruz County Jail: implemented diagnostics to determine level of education, collaborated with students to set goals and a plan of study, and taught Pre-Algebra and Algebra</li></ul>	
	<b>Contractor</b>	September - October 2021
	<i>Code and Cursor, Oakland, CA</i>	
	<ul style="list-style-type: none"><li>• Collaborated on adapting a version of the “Boids” program (a bird flocking simulator) in the Processing language, for use in an art installation at Chicago O'Hare Airport</li></ul>	

- Worked as a team to design, build, and troubleshoot a polished, working program, using math/physics knowledge (vectors, mechanics, etc.) to develop a life-like bird flocking motion
- Wrangled data, balancing aesthetics without losing statistical meaning, and to output intelligible information (positions, sizes, units) for use in assembling the physical exhibit

### **Recreation Leader I**

June - August 2019

*Oakland Parks, Recreation & Youth Development, Dimond Park, Oakland, CA*

- With other Rec Leaders and Aides, lead groups of 15-20 kids (ages 5-10) through summer camp activities such as: outdoor and indoor games, hikes, educational activities, arts and crafts, visiting guests, field trips, etc.
- Set up, served, and cleaned up breakfast, lunch, supervised free-play, and facilitated use of park equipment and facilities

### **ASES (After-school Education & Safety) Tutor**

August - December 2018

*Oakland Charter Academy, Oakland, CA*

- Led After School tutoring classes and Study Hall daily
- Organized and taught an enrichment Chess & Puzzles class
- Substitute ASES Supervisor (administrate ASES program: transition students/teachers from end-of-school to snack-time to ASES program, monitor campus to make sure all after-school programs ran smoothly)

### **Paraprofessional Tutor**

May 2016 - August 2018

*Oakland Charter Academy, Oakland, CA*

- Tutored small groups, both in-class and out of class, during the school day
- Collected student data to inform targeted academic support and intervention
- Substituted for teachers of all grade levels (6th - 8th grade) and subjects
- Led after-school tutoring and enrichment classes daily
- Helped set up and organize community events such as Posada, Harvest Festival, Winter/Spring Formals, and 8th grade graduation

### **Engineering Tech**

September 2014 - May 2016

*Contra Costa County Public Works Dept, Martinez, CA*

- Used GIS (mapping software) to screen industrial sites for pollutants
- Created and maintained spreadsheets for street sweeping maps, schedules, and collected trash level data
- Communicated with public and other departments by email and phone regarding municipal operations and illegal dumping complaints
- Set up and conducted public outreach at community and school events for education of clean water and watershed programs

## **TALKS, ORGANIZING**

### **“What (the Heck) is a Higher Category?”**

May 2, 2022

*UC Santa Cruz, Mathematics Department Graduate Colloquium*

### **“What (the Heck) is a Spectrum?”**

February 14, 2022

*UC Santa Cruz, Mathematics Department Graduate Colloquium*

### **Community Category Theory Seminar**

Winter - Spring 2022

*UC Santa Cruz*

- Co-organized (with 2 other grad students) this unofficial learning seminar for graduate and undergraduate students.
- In Winter 2022, gave lectures and supervised weekly problem sessions.
- In Spring 2022, a weekly problem session.

**Stable Homotopy Theory Reading Group**

Winter - Spring 2022

*UC Santa Cruz*

- Co-organized a reading group following Barnes & Roitzheim – *Introduction to Stable Homotopy Theory*. Gave talks periodically.

**$\infty$ -Category Reading Group, Talk 1**

October 16, 2021

*(online)*

**CONFERENCES,  
SEMINARS,  
SCHOOLS,  
WORKSHOPS...**

**PCMI Graduate Summer School**

July 12-23, 2021

*(online) IAS Park City Mathematics Institute*

- Week 1 : “An Introduction to Motivic Homotopy and its Applications”
- Week 2 : “Illustrating Mathematics”

**iViva Talbot! 2021**

June 1-6, 2021

*(online) MIT*

**Cornell Topology Festival**

May 20-21, 2021

*(online) Cornell University*

**Graduate Student Topology & Geometry Conference**

April 9-11, 2021

*(online) Indiana University, Bloomington*

**Dualities in Topology and Algebra**

February 1-13, 2021

*(online) International Centre for Theoretical Sciences*