

# Curriculum Vitae

## Harry Stoltz

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### EDUCATION

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#### University of California, Riverside (Cum Laude)

*Bachelor of Science in Pure Mathematics; GPA: 3.89*

Riverside, CA

*Sep. 2021 – Jun. 2025*

#### New York University, Courant Institute

*Graduate Student, Mathematics*

New York City, NY

*Sep. 2025 – Present*

### RESEARCH EXPERIENCE

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#### SURF Student

*California Institute of Technology*

June. 2024 – September 2024

*Pasadena, CA*

- Researched 2-D quantum tori and Hilbert's 12th problem with Professor Matilde Marcolli.
- Presented research in October 2024 at SURF conference.

#### Undergraduate Student Researcher

*University of California, Riverside*

Apr. 2023 – Jun. 2025

*Riverside, CA*

- Researched genetic mosaicism using novel stem cell technology with Professor Thomas E. Kuhlman.
- Continued research as part of UCR's prestigious summer RISE program during Summer 2023.
- Presented research at the RISE symposium to 200+ researchers.
- Working on modelling genetic mosaicism using algebraic methods for Senior Honors Thesis.

#### Undergraduate Student Researcher

*University of California, Riverside*

Dec. 2021 – Jun. 2025

*Riverside, CA*

- Researched public health interventions in various African countries with Professor Kim Yi Dionne.
- Published a paper on the efficacy of undergraduate student research in humanities.

### TEACHING EXPERIENCE

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#### Student Instructor: University of California, Riverside: Riverside CA Jan. 2023 – Jun. 2025

- Designed, created, and implemented a new course at UCR: "International Relations as a Function of Spaceflight."
- Worked with UCR Faculty (Professor Kim Dionne) to set up the class, and took EDUC 102 "Democratic Pedagogy: Developing R'Courses" in preparation.
- In talks with Dr. Marc Ventresca and the Oxford Space Initiative to record my class and offer it as an online course.
- Taught my course in the following quarters:
  - \* Winter 2023 – CRN: 54063
  - \* Spring 2023 – CRN: 72714
  - \* Fall 2023 – CRN: 36785
  - \* Winter 2024 – CRN: 55926
  - \* Spring 2024 – CRN: 74138
  - \* Fall 2024 – CRN: 38403
  - \* Winter 2025 – CRN: 57498
  - \* Spring 2025 – CRN: 75717

## OTHER PROFESSIONAL EXPERIENCE

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**R'Course Review Board: University of California, Riverside: Riverside CA** Nov. 2024 – Jun. 2025

- Read, review, and revise R'course course proposals.

**Pacific Math Alliance VP: University of California, Riverside: Riverside CA** Sep. 2024 – Present

- Club planning, outreach, tabling, and lead seminars on various math topics, including my popular "Desmos workshop," offered quarterly.

**Science Communications Intern: California Institute of Technology** Jun. 2022 – Sep. 2022

- Wrote articles on novel research at Caltech.
- Interviewed Caltech staff about their research.

**Freelance Writer: Inverse.com; Bustle Media Group** Mar. 2022 – Present

- Occasionally commissioned to write articles on current news in spaceflight.

**Staff Writer: The Highlander** Jan. 2022 – Sep. 2023

- Published articles weekly in the student newspaper as a paid writer.

**Journalist: Space Explored** Aug. 2021 – Present

- Published articles as a paid Journalist.

**Lead Space Correspondent: Cleantechnica** Sep. 2019 – Present

- Published articles as a paid Journalist, attended NASA press events, and travelled to SpaceX press event.

## PUBLICATIONS

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**A Mathematical Take on Genetic Mosaicism:** Expected: June 2025

**Quantitatively Measuring the Effects of Genetic Mosaicism:** 2023

**Undergraduates and Political Science Research: Insights from Research Assistants in a Minority-Serving Institution Lab:** 2023

*Velásquez, Zabdi R., Jasmine Esmail, Harry Stoltz, Fulya Felicity Turkmen, Owura Kuffuor, John Burnett, Naia Pizarro et al. "Undergraduates and Political Science Research: Insights from Research Assistants in a Minority-Serving Institution Lab." PS: Political Science & Politics 56, no. 4 (2023): 493-498.*

## CONFERENCE PRESENTATIONS

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**A Mathematical Model for Genetic Mosaicism – 2025 UCR Undergraduate Research & Creative Activities Symposium:** Apr. 2025

**A Mathematical Model for Genetic Mosaicism – Mathematical Physics Seminar:** Apr. 2025

**Geodesics Between Thetas – 2025 Computational Interactions between Algebra, Combinatorics, and Discrete Geometry:** Feb. 2025

**Geodesics Between Thetas – 2024 SURF Fall Seminar Day:** Sep. 2024

**Formalization of Euclidian Geometry via Hilbert's Axioms – Mathematical Pathways to an Excellent Future Conference:** May 2024

**Formalization of Euclidian Geometry via Hilbert's Axioms – 2024 UCR Undergraduate Research & Creative Activities Symposium:** Apr. 2024

**Quantitatively Measuring the Effects of Genetic Mosaicism – 2023 RISE/MARC Symposium:** Sep. 2023

## VOLUNTEER & OUTREACH

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### **Math Tutoring**

2022 – Present

- Tutoring students at UCR – primarily in Calculus, Linear Algebra, and Differential Equations.

### **Community Outreach via PMA**

(In-Progress) 2025

- Initiating community outreach program in the Riverside area.
- Using position as Pacific Math Alliance VP to help undeserved high school students get excited about mathematics from an early age.

## HONORS AND AWARDS

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### **UCR Honors Student** (Sep. 2021 – Jun. 2025)

- Took Honors-exclusive courses at UCR.
- Wrote and published thesis: "A Mathematical Model for Genetic Mosaicism."

### **Mathematics Honors Distinction** (2021–2025)

#### **Student on the Dean's Honors List** (2021 – present, quarterly)

- Maintained a minimum 3.5 GPA per quarter.

#### **Student on the Chancellor's Honors List** (2021 – present, annually)

- Qualified by being on the Dean's List every quarter of the academic year.

### **Cum Laude** (2025)