
EDUCATION	UCLA <i>Ph.D. in Mathematics</i> - Advisor: Prof. Burt Totaro	2021 - 2026 (<i>expected</i>)
	UCLA <i>B.S. in Mathematics</i>	2016 - 2020
PUBLICATIONS	Smooth Calabi-Yau varieties with large index and Betti numbers <i>Mathematische Zeitschrift 312, 105</i>	2026
INVITED TALKS	Smooth Calabi-Yau Varieties with large index and Betti numbers <i>Summer Research Institute in Algebraic Geometry</i>	2025
	Smooth Calabi-Yau Varieties with large index and Betti numbers <i>Birational Geometry Seminar</i>	2025
	The homology of the Hilbert scheme of points in affine space <i>Caltech/USC Algebra & Geometry Seminar</i>	2025
	Smooth Calabi-Yau Varieties with large index and Betti numbers <i>USC Algebra Seminar</i>	2025
AWARDS	Sherwood Prize <i>Exceptional performance in undergraduate mathematics</i>	2020
	Summer Mentored Research Fellowship <i>Summer research funding for early research development with faculty mentor</i>	2022
OUTREACH	Science Fair for Cancelled Research - Organized a poster session showcasing suspended scientific research at UCLA - Covered in local media	2025
	SURE-C² <i>Scaling up Research Experience for Community Colleges</i> - Led a summer bootcamp to prepare community college students to engage in mathematical research and to transition to a four-year institution - Regularly met with students over the academic year for project mentorship - Helped finalized student reports and presentations on their research project	2023 - 2025
SERVICE	Directed Reading Program mentor	2022 -
	Teaching committee	2023 -
	Directed Reading Program committee	2023 -
	Qualifying exam policy review committee	2025 -

TECHNICAL SKILLS Experienced in: Python, SageMath, L^AT_EX
 Knowledgeable in: C++, Java, Bash, Lisp

CONFERENCES ATTENDED

PCMI	2021
<i>Motivic homotopy theory and computational number theory</i>	Online
Western Algebraic Geometry Symposium	2022
	UC Riverside
Arizona Winter School	2023
<i>Unlikely intersections</i>	University of Arizona
Special Values of L-Functions	2023
	Universität Paderborn
Southern California Algebraic Geometry Symposium	2023
	UC San Diego
Arithmetic, Birational Geometry, and Moduli Spaces	2023
<i>Birthday conference for Prof. Dan Abramovich</i>	Brown University
K-Theory, Algebraic Cycles, and Mathematical Physics	2023
	The Ohio State University
Southern California Number Theory Day	2023
	UC Irvine
Southern California Algebraic Geometry Symposium	2023
	UCLA
Arizona Winter School	2024
<i>Abelian varieties</i>	University of Arizona
Higher Dimensional Algebraic Geometry	2024
<i>Birthday conference for Prof. James McKernan</i>	UC San Diego
Special Year on p-adic Arithmetic Geometry	2024
<i>Visited in spring</i>	Institute for Advanced Study
Western Algebraic Geometry Symposium	2025
<i>Presented a poster</i>	University of British Columbia
Summer Research Institute in Algebraic Geometry	2025
	Colorado State University, Fort Collins
Western Algebraic Geometry Symposium	2025
<i>Presented a poster</i>	University of Oregon

COURSES TA'D Below, PIC stands for **Program in Computing**, which are programming classes taught in the math department at UCLA. Courses numbered 1-99 are lower division and courses numbered 100-199 are upper division.

PIC 16A
Python with Applications I

Math 31AL
Differential and Integral Calculus Laboratory

COURSES TA'D

Math 31A
Differential and Integral Calculus

Math 32A
Calculus of Several Variables

Math 33A
Linear Algebra and Applications

Math 61
Introduction to Discrete Structures

Math 110AH
Algebra (Honors)

Math 110BH
Algebra (Honors)

Math 110C
Algebra (Honors)

Math 115A
Linear Algebra

Math 115AH
Linear Algebra (Honors)

Math 117
Algebra for Applications