

# Sireesh Vinnakota

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CONTACT INFORMATION	University of California, Irvine Office 510T, Rowland Hall 400 Physical Sciences Quad Irvine, California, 92697	<i>E-mail:</i> <a href="mailto:vinnakot@uci.edu">vinnakot@uci.edu</a> <i>Website:</i> <a href="https://sireeshvinnakota.github.io/">sireeshvinnakota.github.io/</a>
RESEARCH INTERESTS	Essential dimension, classical and $p$ -adic Hodge Theory, mixed characteristic Algebraic Geometry	
EDUCATION	<b>University of California, Irvine</b> , Irvine, CA, USA <i>Ph.D. in Mathematics (in progress)</i> Advisor: Jesse Wolfson	2022–
	<b>Claremont Graduate University</b> , Claremont, CA, USA <i>M.S. in Mathematics</i>	2021–2022
	<b>Budapest Semesters in Mathematics</b> , Budapest, Hungary <i>Advanced Coursework in Mathematics</i>	2019
	<b>Pomona College</b> , Claremont, CA, USA <i>B.A. in Mathematics, summa cum laude</i> Valedictorian, <i>GPA: 4.0/4.0</i>	2018–2021
	<b>Boston College</b> , Chestnut Hill, MA, USA <i>Honors coursework in Economics &amp; Politics, transferred</i>	2017–2018
SELECTED HONORS AND AWARDS	Claremont Graduate University John M. Krenkel Fellowship	2021
	<b>Rena Gurley Archibald High Scholarship Prize, Pomona College</b> “Awarded to the member of the graduating class who ranks highest in scholarship”	2021
	<b>The Phi Beta Kappa Award, Pomona College</b> “Granted to a graduating senior in residence for three or more years demonstrating high quality of scholarship and promise.”	2021
	Membership to Phi Beta Kappa, Pomona College	2021
	<b>Bruce Jay Levy Mathematics Prize, Pomona College</b> “This prize is awarded annually to a student chosen by the Mathematics Department faculty for excellence in the field of mathematics.”	2020
	Llewellyn Bixby Mathematics Prize, Pomona College	2019
	Pomona College Scholar, Pomona College	2018–2021
	Dean’s List, First Honors, Boston College	2017–2018
CONFERENCES	Attended <ul style="list-style-type: none"><li>– Thematic Programme at LMSI, <i>Mumbai, Maharashtra, IN</i></li><li>– Topics in Hodge Theory <i>Sonipat, Haryana, IN</i></li><li>– Enumerative Geometry, Intersection Theory &amp; Beyond, <i>Columbus, OH</i></li><li>– Summer Research Institute in Algebraic Geometry, Week 3, <i>Ft. Collins, CO</i></li></ul>	January 2025 January 2025 October 2025 July 2025

- Thematic Prog. in Discrete Groups in Topology and Alg. Geom., *Notre Dame, IN* June 2025
- Hodge Theory and Algebraic Geometry, *Stony Brook, NY* May 2025
- Humans, Math, and Machines, *Irvine, CA* March 2025
- Redbud Topology Conference, *Fayetteville, AR* February 2025
- Strengthening Community in Research Mathematics, *Claremont, CA* February 2023
- Séminaire de Mathématiques Supérieures, *Vancouver, BC* July 2022
- PUNDiT: Practicum for Undergraduates in Number Theory *Los Angeles, CA* October 2021
- Notre Dame Summer Workshop in Geometry and Topology *South Bend, IN* July 2019

Presented

- Claremont Institute of Mathematical Sciences Virtual Poster Session September 2021
- Pomona College Department of Mathematics Senior Thesis Talks April 2021
- Mathematical Association of America, SoCal-Nevada Section Meeting November 2020
- Gulf Coast Undergraduate Research Symposium October 2020
- Southern California Mathematics REU Conference August 2020
- Summer Undergraduate Research Program Poster Conference September 2019

PUBLICATIONS

1. **Extremal hypergraphs for the Erdos-Selfridge theorem using labelings of binary trees** with Kathryn Grossmann, Dongming (Merrick) Hua, Benjamin Pagano, Hannah Sheats, Eric Sundberg, Ann Thompson.  
*Involve, Vol. 17 (2024), No. 5, 845–899 (DOI)*

TEACHING  
EXPERIENCE

	<b>Department of Mathematics   UCI</b>	<b>2022–</b>
	Teaching Assistant	
	– Mathematical Writing	F23, F24, F25
	– Precalculus, Math In The Summer	Sum2024
	– Differential Equations	Sum2024
	– Calculus II	F22, W23, W24, Sum25
	– Calculus I	S23, Sum2023
	– Calculus I with Applications to the Natural Sciences	S24, Sum25
	<b>Institute of Mathematical Sciences   CGU</b>	<b>2021-2022</b>
	Academic Mentor/Teaching Assistant	
	– Introduction to Topology	S22
	Grader	
	– Complex Analysis	S22
	– Real Analysis I	F21
	<b>Mathematics and Statistics Department   Pomona</b>	<b>2018-2021</b>
	Academic Mentor/Teaching Assistant	
	– Abstract Algebra I	S21
	– Real Analysis I	F20
	– Introduction to Real Analysis	S20
	– Introduction to Topology	S20
	– Linear Algebra	S19

**Pomona College Quantitative Skills Center**, Claremont, CA, USA **2018-2022**  
 Tutor: Held weekly office hours (4hrs/week) as a tutor for students at the Claremont Consortium studying calculus, real & complex analysis, probability theory, linear & abstract algebra, statistics, economic theory, and econometrics.

**Sigma Academy**, Skillman, NJ, USA **2015-2024**  
 Tutor: K-12 students in physics, economics, and mathematics

SERVICE

**Department of Mathematics | UCI** **2022–**  
 Undergraduate Outreach Coordinator, Association for Women in Mathematics at UCI **2024–**  
 Organizer and Instructor, Directed Reading Program **2024–**  
 – Introduction to Topology **W2024**  
 – Topology Learning Community: Point-Set Topology **F2024**  
 – Topology Learning Community: Algebraic Topology **W2025**

**Pomona Research in Mathematics Experience | Pomona**  
 Instructor,  $\LaTeX$  Seminar **2019–**