Aaryan C. Sukhadia

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Education	Stanford University Major in Mathematics w/ Honors (Ongoing) <u>GPA:</u> 3.85 (Cumulative)	2021 – 2025
Research	Honors Thesis on Number-Theoretic Langlands Correspondence Ongoing, Supervised by Brian Conrad @ Stanford University Reading a variety of texts to build theory and write expository thesis on co morphic representations of adele matrix group quotients and number-field of	
	REU on Supersingular Diagonal Curves and their Genera <i>Supervised by Benjamin Church, Spencer Dembner @ Stanford University</i> Computed zeta functions and genera of supersingular diagonal curves in w and gave a (previously-unknown) exact characterization of such curves. Dev tics to prove new bounds and motivate conjectures on prime-genus question	veloped statistical heuris-
Teaching Experience	Grader @ Stanford Math Dept. Math 51 (LinAlg and Multivar Calc), Math 120 (Groups and Rings), Math 21	Fall 2022 – Present 6A (Grad Alg Geo).
	SUMO Tutor @ Stanford Lead weekly pset help sessions for introductory calculus and linear algebra	Fall 2022 – Present classes.
	Head Counselor @ Stanford University Mathematics Camp Guided students through Algebraic Topology coursework; Mentored reading and <i>p</i> -adic Valuations; Led writeup of first-ever solution set for Program II f	
	Instructor and Organizer @ Math 75SI, Stanford Led second-ever iteration of student-organized undergrad course on <i>How to</i> nized panels, talks, writeups; Worked to codify class in administration for p	÷
	Counselor @ Program in Mathematics for Young Scientists Guided students in Number Theory coursework; TA'd for Advanced Course ture; Designed camp t-shirt; Mentored research project on Mahler-Popkens	5
	Tutor, Freelance2018 – PresentTutored a number of students in a variety of subjects, including mathematics, computer science, physics and chemistry. Content level ranged from elementary-school to undergraduate.	
Other Work Experience	Service DevOps Intern @ Grab Indonesia Used AppsScript to automate database sanitation and amend algorithms fo generation to reduce redundancies by over 50% for a ride-share service.	<i>Summer 2019</i> r report and promo code

Outreach and Service	Founder and Managing Editor @ CardinalitySummer 2024 - PresentNamed, created, edited for and wrote in first-ever issue of Stanford's undergraduate math magazine.		
	Board Member @ Stanford Undergrad Math Organization Coordinated Speaker Series events; Maintained website; Curated academic resource	Fall 2022 - Present ces.	
	Frosh 101 Leader @ Stanford TA'd two sections of a discussion-led course for freshmen on building college com	<i>Fall 2022</i> unity.	
	Peer Reviewer @ National High-School Journal of Science Reviewed scientific and mathematical research by advanced high-school students.	2019 – 2021	
Selected Talks	3264 Conics @ Stanford How to Give a Math Talk @ SUMaC BB(n) and Goldbach's Conjecture @ Math75SI Classification and Genera of Supersingular Diagonal Curves @ SURPS Seifert Surfaces @ Math75SI "T-Shirt Talk" on Constructible Polygons @ PROMYS How to Write Proofs @ PROMYS	Oct 2024 July 2024 Jan 2024 Aug 2023 Feb 2023 Summer 2022 Summer 2022	
Skills	Programming Proficient in Python, C/C++, LaTeX; Working Knowledge of Sage, React, JS. Languages		

Fluent English; Heritage Hindi; Intermediate Korean; Beginner Mandarin and Spanish