

Gavi Dhariwal

gavi.m.dhariwal@gmail.com | Website: <https://gavi-d.github.io/> | Redlands, CA - 92374

EDUCATION	University of Redlands	Redlands, CA
	Bachelor of Science: Mathematics Bachelor of Arts: Computer Science	Expected Aug 2022
	Relevant Coursework: Complex Analysis, Real Analysis, Probability, Number Theory, Linear Algebra, Differential Equations, Conjecture and Proof in Discrete Mathematics, Vector Calculus, Introduction to Machine Learning, Software Engineering, Theory of Algorithms, Game Programming, Web Application Development	
	Languages: Fluent in <i>English</i> and <i>Hindi</i>	
	Dean's List	Fall 2018 – Fall 2020
	Honor given to students who have earned a semester GPA of 3.65 or higher	
	Budapest Semesters in Mathematics	Budapest, Hungary
	Coursework: Introduction to Abstract Algebra, Graph Theory, Mathematical Problem Solving, Non-Euclidean Geometry	Fall 2021, Summer 2022
TECHNICAL SKILLS	Java, Python, Sage, JavaScript, L ^A T _E X, HTML/CSS (skill level: <i>Intermediate</i>)	
	ThreeJS, Manim (skill level: <i>Beginner</i>)	
WORK EXPERIENCE	Research Assistant	Redlands, CA
	Department of Mathematics - University of Redlands	Jun 2021 – Aug 2021
	<ul style="list-style-type: none">Independently studied the basic aspects of Matroid TheoryStudied Affine Geometry as background material. Worked with research advisor to understand questions on Bases and Probability in Affine and Projective spacesPresented a poster on my study of Matroid Theory to students and faculty of the STEM departments	
	Research Assistant	Redlands, CA
	Department of Mathematics - University of Redlands	Jun 2020 – Aug 2020
	<ul style="list-style-type: none">Studied the Ranked Choice Voting system, where it's being adopted and where it's receiving resistanceResearched on the property of Monotonicity and it's relationship with Ranked Choice Voting. Took conditions for Monotonicity failure for 3-candidate elections and applied them to real world dataPresented a poster on my study of Ranked Choice Voting to students and faculty of the STEM departments	
	Tutor (CRLA Certified) and Grader	Redlands, CA
	Department of Mathematics - University of Redlands	Aug 2019 – Apr 2022
	<ul style="list-style-type: none">Bolstered confidence in peers towards Math classes by helping them in conceptual understanding and homework problems in CalculusGraded homework sets (class size ranging from 12 to 30) for Calculus, Linear Algebra and Abstract Algebra, and gave constructive feedback for the same	
	TALKS	
	RED Talk: Math...it ain't that bad	Redlands, CA
	Glenn Walichs Theatre - University of Redlands	Feb 2022
ACADEMIC HONORS & AWARDS	Selected out of 50 speaker-applicants, as part of the inauguration of the university's new President, to give a talk on the relationship that people usually have with Mathematics. In preparation for this talk, I self-taught myself Manim to design and program animations for the audience. By sharing my own experiences with Mathematics and concepts I find beautiful in Math, I motivated the audience to rethink their outlook on Mathematics.	
	Tutor of the Year	Apr 2022
	Each year this award is given to a tutor who has demonstrated outstanding enthusiasm, reliability, a positive attitude, professionalism, and commitment to their job, as well as dedication in tutoring specific subject matter within the tutoring program. The tutor is selected based on their nominations from other tutors and students, evaluations from students, the number of tutoring sessions completed, and overall performance during the year.	
	Mortar Board - ΠΣΑ	Aug 2021
	Mortar Board is a national honor society that recognizes college seniors for their achievements in scholarship, leadership and service, provides opportunities for continued leadership development, promotes service to colleges and universities and encourages lifelong contributions to the global community. <i>Inducted: August 2021</i>	
	Pi Mu Epsilon - ΠΜΕ	Apr 2020
	Pi Mu Epsilon is the U.S. honorary national Mathematics society which is dedicated to the promotion of mathematics and recognition of students who successfully pursue mathematical understanding. <i>Inducted: April 2020</i>	

CAMPUS
ACTIVITIES

Omicron Delta Kappa - OΔK

Apr 2020

Omicron Delta Kappa, the National Leadership Honor Society, recognizes and encourages superior leadership and exemplary character. Since 1914, ODK invites only 5% of the top 35% students in a particular class to join and provide opportunities to expand leadership skills. *Inducted: April 2020*

Maroon and Grey Student Ambassadors

Redlands, CA

New Member Chair & Member

Apr 2020 – Apr 2022

- Worked with senior leadership of the university to support the goals of the Advancement Division of the university by spearheading efforts towards developing relationships with the rare population of international and Math major alumni
- Strategized the application and interview process, and problem solved with the MGSA advisor to improve general practices for an inclusive and friendly environment amongst members

Pi Mu Epsilon

Redlands, CA

Co-President

Jan 2021 – Apr 2022

- Re-cultivated an environment of enthusiasm in the organization (after being slowed down by the COVID-19 pandemic) by fostering a healthy and active space in the cabinet, and organizing new events centered around the needs of the members
- Built outreach by bringing in a diverse range of speakers (industry talks, grad panels, study abroad program information sessions) to help members gain exposure in Mathematics outside of Redlands

Alpha Phi Omega - ΑΦΩ: ΣΒ Chapter

Redlands, CA

Member

Jan 2020 – Apr 2022

- Bolstered the principles of the service fraternity - leadership, friendship and service - by completing service hours across the campus community
- Participated in general body meetings to further the goal of the organization and increase outreach across the campus community

Outdoor Programs

Redlands, CA

Trip Leader

Sep 2019 – Apr 2022

- Planned and lead hiking/backpacking trips in the outdoors. Motivated participants on the trip to develop a unique connection with their surrounding environment by engaging in reflective activities
- Facilitated activities such as cooking in the backcountry, setting up tents and following LNT (Leave No Trace) principles. Managed injuries on trips, if any, by following WFR protocol (Wilderness First Responder)
- Provided students on campus, especially minorities like international students, avenues to explore the outdoors

The Denominators (Math Club)

Redlands, CA

President

Apr 2019 – Apr 2021

- Brainstormed ideas for club events to foster a friendly Math community outside of the classroom. This established an environment of camaraderie, teamwork and fun - some key qualities of a healthy and collaborative Mathematics department
- Facilitated cabinet meetings to work towards a healthy environment and addressed any internal conflicts. Managed expectations for the organization and helped cabinet members succeed in their responsibilities by being as approachable and understanding as possible

Redlands International Students Association

Redlands, CA

Founder & Vice President

Oct 2018 – Dec 2020

- Co-founded the club to develop a safe space for International students to discuss shared experiences of being foreigners in the United States
- Documented paperwork and meeting notes from cabinet meetings. Kept track of cabinet member responsibilities to further the goal of the club
- Brought awareness about the international community on campus by celebrating cultures and festivals of fellow international students

Office of International Students and Scholars

Redlands, CA

Global Ambassador

Aug 2019

- Assisted in developing and carrying out the International Student Orientation program
- Served as a mentor to newly admitted international students during the International Student Orientation and throughout the Fall semester

TEDxUniversityofRedlands
Curation Team Member

Redlands, CA
Jan 2019 – Mar 2019

- Assisted in planning and executing the universitys first ever TEDx event
- Reached to potential speakers and collaborated with them on curating their talks
- Assisted in on-stage prep on the day of