

Arunim Agarwal

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EDUCATION

Henry M. Gunn High School

Aug. 2017 – June 2021

School Activities and Experience:

Palo Alto, CA

- **Co-Founder and President, Village Studio (2019-present):** Built a student-run makerspace from scratch as a creative outlet for high schoolers, pitched to PTSA and administration for funding, managed a team of student-mentors and 18K+ in budget
- **Co-Founder and President, Club of Clubs; Co-President, Juggling Club (2018-2020)**
- **Elected class officer, Site Council Representative (2017-present):** Leadership Council, PTSA Rep., Bond Advisory Committee Rep., Facilities Committee Rep.
- **Lead, Homecoming Floats (2018, 2019):** Designed and built a dynamic float from scratch with a team.

EXPERIENCE

Research Intern | UC Santa Cruz Earth and Planetary Science

July 2020 – Present

- Analyzed satellite images of Greenland Ice Sheet over 35 years to demonstrate acceleration of retreat due to proximity to a fast-moving glacier and climate change. Writing a manuscript with Prof. Slawek Tulaczyk

Mentor | MakeX Palo Alto

Sep. 2018 – Present

- Nation's first student-founded student-run free access community makerspace. Helped students of all ages to create projects, kept the makerspace operational, worked on budget, site management, and outreach. Supplied 3D printed PPE to hospitals during the pandemic

Independent Researcher | with Dr. Marwah, adjunct professor at Santa Clara University

July 2020 – Present

- Applied principal component analysis in Python to analyze trends in household energy usage that could potentially be used for efficient smart building design

Intern | Stanford University Global Projects Center

Nov. 2019 – Feb. 2020

- Analyzed Census data to describe equity in access to health care, insurance, and services for Bay area residents

Paid Intern | Stanford University Department of Geophysics

July 2019 – Nov. 2019

- Conducted field work and data analysis on underground fiber optic cables using Distributed Acoustic Sensing (DAS) to improve seismic monitoring under Prof. Biondo Biondi and Ariel Lellouch

Camp Counselor | City of Palo Alto Recreation

June 2018 – Aug. 2018

SUMMER ACTIVITIES AND CONFERENCES

Talking Across Fields Conference | Stanford University

2020

- Attended an advanced, college-level conference on probability, statistics, and combinatorics

Smart Cities Opinion Piece | Independent

2020

- Reviewed advances in digital cities and Sidewalk Labs' failure to develop a high-profile smart city in Toronto

Disruptive Technology and Digital Cities Conference | Stanford University

2019

- Learned about urban infrastructure innovations tackling issues such as efficient transportation and energy usage

embARC Summer Design Academy | UC Berkeley

2019

- Studied the fundamentals of urban design; abstracted and designed a pavilion

TECHNICAL SKILLS

Languages: English, Hindi, Spanish, beginning Mandarin
CAD/Design Software: Sketchup, Fusion 360, Adobe Illustrator, CorelDraw, Cinema 4D, Adobe Animate
Tools: Laser cutters, 3D printers, CNC routers, vinyl cutter, power tools

AWARDS

National Merit Scholarship Semifinalist (2020)
AIME Mathematical Exam Qualification (2018, 2019)
President's Volunteer Service Gold Award (2018)
Varsity XC at CCS, Most Improved Frosh/Soph (2018)
National Spanish Examination Gold Medal (2017)