

# Arunim Agarwal

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## EDUCATION

**Henry M. Gunn High School** | *Weighted GPA: 4.3* Aug. 2017 – June 2021

Relevant Coursework: Multivariable Calc\*, Linear Algebra\*, Physics Light and Heat\*, AP Calc BC, AP Physics C, Applied Math, AP English Lit, AP Spanish, AP US History, AP Psychology (\*college-level)

School Activities and Experience:

- **Co-Founder and President, Village Studio** (2019-2021): 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. Website: [gunnvs.org](https://gunnvs.org)
- **Site Council Rep., Student Executive Council** (2017-2021): Elected as Leadership Council Class Officer, PTSA Rep., Bond Advisory Committee Rep., Facilities Committee Rep.
- **Co-Founder and President, Club of Clubs; Co-President, Juggling Club** (2018-2020)
- **Lead, Homecoming Floats** (2018, 2019): Designed and built a dynamic float from scratch with a team.

## EXPERIENCE

**Research Intern** | *with Prof. Tulaczyk @ 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](#) to be submitted to The Cryosphere

**Mentor** | *MakeX Palo Alto* Sep. 2018 – Present

- Nation's first student-founded student-run free access community makerspace. Helped visitors of all ages create projects, kept the space operational, worked on budget, site management, and outreach. Supplied 3D printed PPE to hospitals during the pandemic and completed 300+ community service hours. Website: [makexpaloalto.org](https://makexpaloalto.org)

**Independent Researcher** | *with Dr. Marwah, adjunct prof. @ Santa Clara University* July 2020 – Nov. 2020

- 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 Dr. 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 analyzed Sidewalk Labs' failed development of a 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

## 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 cutters, woodshop/power tools

## AWARDS

National Merit Scholarship Finalist (2021)

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)