

# Arunim Agarwal

(650) 690-2992 | [arunim@seas.upenn.edu](mailto:arunim@seas.upenn.edu) ☞ | [linkedin.com/in/arunim-a](https://www.linkedin.com/in/arunim-a) ☞ | [arunim.fyi](https://arunim.fyi) ☞

## EDUCATION

**University of Pennsylvania** | GPA: 4.0 Aug. 2021 – Present  
Vagelos Integrated Program in Energy Research (VIPER)

Bachelor of Arts in **Physics**, Minor in **Mathematics**  
Bachelor of Science in Engineering in **Mechanical Engineering and Applied Mechanics**

Relevant Coursework: Lin. Alg. and ODEs; Partial Diff. Eqs.; Physics Principles III; Modern Physics; Analytical Mechanics; Intro to Mech. Design; Intro to Programming; History of the Mid. East

**Henry M. Gunn High School** | Unweighted GPA: 4.0 Aug. 2017 – June 2021

## EXPERIENCE

**Material Science Intern** | Holy Grail - Mountain View, CA Apr. 2021 – Aug. 2021

- Tackled modular direct air carbon capture device technology at a startup during seed round stage (\$2.7M raised)
- Supported CEO and CTO to streamline and set up the laboratory, identified key materials with desired properties for testing, and secured specialized materials and precision lab equipment from suppliers

**Research Intern** | UC Santa Cruz Earth and Planetary Science - Santa Cruz, CA July 2020 – June 2021

- Analyzed satellite images of Greenland Ice Sheet over 35 years to demonstrate acceleration of retreat due to the sheet's proximity to a fast-moving glacier and global warming. Drafted a manuscript ☞ under the mentorship of Prof. Tulaczyk

**Paid Intern** | Stanford University Department of Geophysics - Stanford, CA 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

**Mentor** | MakeX Palo Alto - Palo Alto, CA Sep. 2018 – Aug. 2021

- Volunteered at the 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. 3D printed PPE for hospitals during the pandemic and completed 300+ service hours. Website: [makexpaloalto.org](https://makexpaloalto.org) ☞

## PROJECTS AND ACTIVITIES

**Abuse and Sexual Assault Prevention Club** | University of Pennsylvania 2021 - Present

- Developed promotional materials and researched university policies to make the campus a safer space for students

**Alto Clef: PA Public Piano** | Palo Alto Public Art Commission 2021

- Installed a piano painted by student artists (grant from PA Public Art). Photos and info at [arunim.fyi/piano](https://arunim.fyi/piano) ☞

**Village Studio** | Gunn High School 2019 - 2021

- Co-founded 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) ☞

**Disruptive Technology and Digital Cities Conference** | Stanford University 2019

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

**Homecoming Floats** | Gunn High School 2018 - 2019

- Designed and built a dynamic float from scratch with a team

## SKILLS

**Languages**: English, Hindi, and Spanish  
**CAD/Design Software**: Sketchup, SolidWorks, Adobe Illustrator, CorelDraw, Cinema 4D  
**Tools**: Laser cutters, 3D printers, CNC routers, vinyl cutters, sewing/embroidery machines, 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)