

# JOANNA FAN

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## Experience

### Ardent Academy

Teaching Assistant, Content

Developer

01/2021 - 05/2021

- Taught in Grade 6-8 Math Olympiad Office Hours
- Wrote curriculum in LaTeX
- Resolved 60+ weekly issues with student web platform

### health{hacks}

Hackathon Sponsorship Team

03/2021 - *Current*

- Cold-email 50+ companies and VCs for sponsoring our event
- Help compile resource guide for hackers

### STEAM for All

Director of Operations (20-21), Vice

President of Satellites (19-20)

03/2018 - 06/2021

- Student Council Member, Volunteer
- Developed curriculum and structure for events and classes
- Oversaw the planning and execution of STEAM for All local and satellite events

### NSF-Simons UCI Intern

Computational Modeling Intern

05/2019 - 09/2019

- NSF-Simons Center for Multiscale Cell Fate Research w/ Professor Jun Allard and Lara Clemens at the University of California, Irvine
  - “Computational Modeling of Formin-Induced Actin Polymerization”.
  - Programs Used: C Code, UniProt, Python
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## Education

University of Pennsylvania | *Class of 2025*

Jerome Fisher Program in Management and Technology | Philadelphia, PA

### Bachelor of Science in Economics - B.S., Bachelor of Science in Engineering - B.S.E.

- Computer and Information Science (CIS) and Business with Undecided Concentration

Portola High School | *Class of 2021* | Irvine, CA

### High School Diploma

- Summa Cum Laude, 4.00 Unweighted/4.67 Weighted GPA
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## Projects

- ClubsApp (2019): Web Application to organize school clubs and record club minutes. Written in Python (Flask).
  - Viro (2020): Agent-based model (ABM) for computationally modelling individual human behavior to analyze medical cost-effectiveness for viral infections and pandemics. Written in Python (Mesa).
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## Honors and Awards

2x AIME Qualifier | USACO Silver | Science Olympiad 3x State Gold Medalist

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## Technical Skills

- Languages: C/C++, Python, HTML, JS, CSS
- Web/Frameworks/Others: Flask, Mesa, matplotlib, UniProt

**Activities in College (in order of importance):**

1. Penn Electric Racing
2. Wharton Asia Exchange
3. One of: hack4Impact, Penn Labs, Women in CS