

## Charlotte Almond Vitae

### EDUCATION

#### Harvey Mudd College (CO 2028)

- DIII Pole Vaulter
- Relevant First-Year Courses: Multivariable Calculus, Computer Science, Linear Algebra, Physics, Special Relativity

#### High School for Math Science and Engineering (CO 2024) (HSMSE, #1 NY Public High School by 2023 US News)

- 4.0 GPA, 1560 SAT (790 Math, 770 ELA)

### SKILLS

**3D modeling and printing, Basic Python and R, Microsoft Suite (Excel, Word), conversational German and Spanish**

### PROJECTS

#### Uncovering a Historic Complex

**(June 2022 - September 2022)**

- Reconstructed an abandoned 16th century complex in rural UK by finding floor plans and assessing remains (independent)

#### Columbia Campus Addition Proposal

**(December 2022 - June 2023)**

- Conceptually and digitally modeled addition to Columbia campus for Columbia professor

#### Applying Differential Equations

**(July 2023 - August 2023)**

- Created differential equation modeling water flow through reverse-osmosis purifier, collaborated on 45-step differentiation

### EXTRACURRICULARS

#### Math Team *Captain and Founder*

**(April 2020 - June 2024)**

- Organized Math Team elective for three semesters, created lesson plans, schedules, registered for competitions
- Lobbied students, school and PTA for support, resulting in the PTA hiring a coach, and the team continuing into 2025
- Qualified for the American Invitational Mathematics Competition, only girl from HSMSE to qualify in 6 years (2022)
  - Takes top 6,000 high school mathletes in the US, and is a route to qualify for the US Math Olympiad Team
- Grew the team to 30 students, two of which were recruited to the NYC Math Team, the best team in the state

#### Track Team Pole Vaulter *Captain and Varsity*

**(December 2020 - June 2024)**

- Athletic Director's Award (2024), PSAL Indoor and Outdoor Track Manhattan Pole Vault Champion (2023 and 2024)
- Proposed, developed, and ran program for injured athletes, prior to this initiative, injured athletes ran or were penalized
- Combated unhealthy attitudes towards injury, since implementing the program, no athlete has quit due to injury

#### Class President

**(September 2021 - June 2022)**

- Developed and executed PTA-funded plan to stock period products in the girls' bathroom
- Chosen as one of two student representatives at Chancellor's Regulation C-30 committee to select school principal

#### Girls Write Now Writing Mentorship Program Mentee

**(September 2021- June 2024)**

- Won Gold Key at the Scholastic Art and Writing Awards for poetry collection (2022)
  - The most prestigious writing competition in the nation, and the Gold Key is the most prestigious regional award - my Gold Key Writings were displayed in the Metropolitan Museum of Art
- Featured essay in Lady Gaga's Born This Way x Girls Write Now Channel Kindness collection (2022)
- Published author in Girls Write Now Anthology (2021-2024)

#### Cross Country Running *Captain and Varsity*

**(September 2022 - November 2024)**

- Developed program and community for injured athletes, as detailed above (up to 20 athletes a practice)

### WORK EXPERIENCE

#### Primary Caregiver

**(July - August 2024)**

- Managing three children under two, including a disabled 19-month old
- Responsible for administering seizure medications, supporting development in anticipation of developmental stagnation
  - Narrated actions, created booklets of key words with illustrations of corresponding familiar objects

#### Stage Manager and Light Technician (80 hours, volunteering) Onteora Children's Theater

**(June - August 2022)**

### OTHER RECOGNITIONS

- Distinction in Leadership Award (2024)
- Triple C Award, for character, courage, and commitment, from New York's attorney general Letitia James (2024)
- Mathematical Modeling at Mercy College Math Camp valedictorian, best team, best presentation, best poster (2023)