

# JACK DAI

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## Education

**Colby College**, Waterville, ME, USA

Aug, 2025 – Present

B.A. Candidate in Mathematics and Computer Science (with Minor in Music), GPA 3.60/4.00 (First Semester)

*Selected Courses:* CS 231 Data Structures and Algorithms, MA 160 Series and Multivariable Calculus, MA 262 Vector Calculus

*Courses in Progress:* CS 252 Mathematical Data Analysis and Visualization, MA 253 Linear Algebra, EA 333 US-China Encounters and Global Engagement in Archives, 1850-1950

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## Work Experience

**Camden Film Festival**, Volunteer, Camden, ME, USA

Sep, 2025

- Assisted in event setup, ticketing, and guiding guests at the Camden Opera House.
- Supported screenings and live events, ensuring smooth operations for attendees and staff.
- Gained hands-on experience in arts event management and community engagement.

**China Daily**, Features Reporter Intern, Beijing, China

Jun, 2025 – Jul, 2025

- Engaged in interviews with renowned artists, including Russian theater director Yuri Butusov, enriching content quality.
- Mastered video editing techniques, producing compelling short videos that enhanced project visibility.
- Contributed to high-profile cultural events, demonstrating adaptability and a commitment to excellence in reporting.

**Fountain Valley School of Colorado**, Media Team, Colorado Springs, CO, USA

Aug, 2022 – May, 2025

- Collaborated with the media team to broadcast, create and edit videos for school events, including sports games and academic competitions.
- Assisted in managing the school's Instagram accounts, promoting events and engaging with the community.

**Dagro Chemical (Chengwu) Co., Ltd.**, Chemical Lab Intern, Chengwu, Shandong, China

Jun, 2022 – Aug, 2022, Jun, 2023 – Aug, 2023

- Assisted in the chemical laboratory, analyzing concentrations of samples and ensuring process quality across multiple stages of production for agricultural product intermediates.
  - Supported inventory management, gaining knowledge of logistics and storage systems to maintain necessary materials for production.
  - Learned the specific functions of factory equipment, sewage treatment processes, and manufacturing procedures in workshops.
  - Observed and studied colleagues' research and development techniques to improve production procedures.
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## Related Projects

**Physics Handout Translator**

Jul, 2021 – Dec, 2022

- Collaborated with friends to assist Professor Wang Yi at HKUST in translating physics handouts ([LLLgoyour/Handout](https://github.com/LLLgoyour/Handout)) from English to Chinese covering topics such as relativity, quantum theory, particle-wave duality, and statistical physics. Gained experience using LaTeX and Overleaf to collaborate on the translation and formatting of scientific material.
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## Academic Experience

**Research Assistant**, Advisor: Prof. Hong Zhang, Colby College

Nov, 2025 – Present

- Conducting historical research on the role of the YMCA in the development of modern sports and physical education in China.
- Collecting and analyzing archival documents, biographical records, and institutional histories related to Chinese sports modernization.
- Preparing a research paper under faculty supervision.

**Presenter, Unity Day Workshop: Diversity in Photography**

Oct, 2023

- Researched, explored, and presented various themes, styles, and cultural movements in photography history for a Unity Day workshop to students, a school event celebrating diverse cultures, focusing on photographers from various cultural backgrounds.
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## Achievements

**Dean's List**

Aug, 2021 – May, 2025

**AP Scholar Award**

Apr, 2023 – May, 2025

**USA Computing Olympiad Platinum Division Qualifier**

Dec, 2023

**Scholar, Yale Young Global Scholars**

Jul, 2023

- Attended Yale Young Global Scholars in the Literature, Philosophy, & Culture (LPC) session.
  - Engaged in two weeks of academic lectures and participated in various seminars on classical philosophy, minority culture, global architectural styles and music.
  - Collaborated with peers to present a group research project, using spoken-word poetry as a creative exploration of literary techniques and romance in literature.
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## Skills

- Programming Languages: multilingual (not limited to any specific language), especially experienced in Java, Python, LaTeX, comfortable with C, C++, Mathematica, Go, Pascal (in random order).

- Java/Python: **6 years of experience**, familiar with NumPy for JupyterNotebook, basic to advanced algorithms, number theory and group theory for competitive coding.
  - Web Development: **3 years of experience**, familiar with mainstream frameworks and languages including Vue.JS.
  - Tools: editor-agnostic, have experience with team tools like GitLab, GitHub, BitBucket, Slack, Overleaf and more.
  - Office Tools: **3 years of experience**, familiar with Microsoft Office, Google Docs, and other office tools.
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## Misc

- Languages: bilingual in English, native in Mandarin Chinese
- Interests:
  - Photography (2020–): Curated and exhibited multiple photo portfolios.
  - Classical Music (2020–): Have been performing classical piano pieces at different venues (Liszt, Beethoven, Bach, Scriabin, etc.).
  - Varsity Alpine Ski Team (2021-2023): Participated in competitive skiing, contributing to the team's achievements in various championships.
  - Founder and Keyboard Player, Careless Youth Band (2021-2025): Founded and led the band, organizing rehearsals and performances, and composing original music.