

EDUCATION

Beijing Academy, Beijing, China

September 2023 – Present

Unweighted GPA: 4.0 SAT: 1560 TOEFL: 116

AP Scores (all 5):

- *Mathematics*: Precalculus, Calculus BC, Statistics
- *Science*: Physics C: Mechanics, Computer Science A, Biology
- *English and Social Science*: English Language & Composition, European History, Microeconomics, Macroeconomics
- *AP Capstone*: Seminar, Research

EXTRACURRICULAR ACTIVITIES

Project Orinav, *Founder & Project Lead*

October 2024 – Present

- Led 5-member team developing navigation app for people with visual impairments, reaching 700+ active users in 5 countries.
- Reduced user navigation time by 12%, hesitations by 44%, and hazard approaches by 43%.
- Spoke at international industry conferences and the 12th Beijing Academy International Seminar; reported by *The Beijing News*.

AllyLab: The Beijing Academy Student Accessibility Initiative, *Founder & President*

March 2026 – Present

- Organized a White Cane Experience for 122 community members and distributed 463 accessibility education leaflets.
- Collaborating with Hequn Public Welfare on Orinav user studies and disability awareness, reaching 50+ participants.
- Partnering with Tsinghua University to launch China's first youth accessibility awareness survey research.

WebArtistry, *Founder & President*

September 2023 – Present

- Designed introductory web development course with 18 periods, taught to ~100 students over 150 hours.
- Partnered with *Zhoushan Nanhai School* on 3 CS seminars for 44 students; reported by *Zhoushan Evening News*.

Project Whale, *Project Lead*

March 2024 – Present

- Empowered the student-run *The Whale Café* with a modern web ordering platform, saving the café CN¥10K+ in development costs.
- Serves 40+ students daily; raised payment completion rate from 55% to 98% and monthly revenue by over 30%.

BAID Website, *Project Lead*

February 2024 – Present

- Built sync workflow cutting news update time from ~30 min to ~72s; reduced load speed by ~40% with asset auto-optimization.
- Saved school estimated CN¥100K+ compared to 3rd-party development.

AFS Global STEM Academies, *Scholar*

July 2025 – August 2025

- Earned full scholarship for 145 students among 7000+ applicants.
- Led 6-member team to launch WasteMap, a web app addressing litter hotspots in urban Cairo.
- Coordinated Orinav beta pilot with 5 Egyptians with blindness through collaboration with the Baseera Foundation.

RESEARCH

- Lin, D., Jiang, B. B., Zhao, W., & Wang, Z. (2026). *Orinav: A hybrid mobile outdoor navigation application for people with visual impairments* [Under peer review]. *Assistive Technology*.
- Lin, D. (2025). *Advancements in hardware accelerators for sequence alignment algorithms: A review*. Pioneer Research Institute.
- Lin, D., Li, T., Sun, Y., & Li, J. (2024). *To play or not to play: Modeling future Olympic Games*. High School Mathematical Contest in Modeling.
- Lin, D., & Li, H. (2024). *Multinomial logistic regression with differentiable L1 regularization*.
- Lin, D., Li, J., Liu, S., & Tang, Z. (2023). *Mathematical model of factors affecting pollutant concentrations in Lake Taihu*. International Mathematical Modeling Challenge.

AWARDS

Tech4Good Awards, *Highly Commended*

AbilityNet, 2026

- Orinav was selected as one of 3 Highly Commended projects from ~300 entries.

Inclusive Innovations, *Invited Presenter*

Envision Technologies, 2025

- Orinav was one of 5 presenters at this conference, selected from ~100 company-based professional applicants.

Conrad Challenge China, *Silver Medal*

Space Center Houston, 2025

- Orinav was awarded one of 13 Silver Medals from 200+ entries.

Chaoyang District Volunteer Service Competition, *Winner*

Chaoyang District Government, 2026

- 5 winners were selected from 168 participants. No. 1 among 44 high school students.

USA Computing Olympiad, *Gold Division*

USACO, 2025

High School Mathematical Contest in Modeling, *Finalist*

COMAP, 2024

- Top 5% of teams were selected for this award.

Stanford e-China, *Student Honoree*

SPICE, 2026

- Only 46 students were admitted to the course, and 6 were selected for the award.

SKILLS AND INTERESTS

- *Development & Analysis*: Python, JavaScript, Java, C++, React, Flutter, iOS/Android, SQL, pandas, numpy
- *Research*: Needs assessment, user research, paper writing, data analysis, study design
- *Communication*: Project management, curriculum design, intercultural communication, public speaking
- *Interests*: CS instruction, musical performances, sight singing, choir, tennis
- *Language*: Mandarin Chinese (native), English (bilingual), French (limited working)