Haolin (Hailey) Li

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RESEARCH INTERESTS

Secondary and Undergraduate CS Education, Equity in CS Education, Teaching Professional Development, PL/HCI

EDUCATION

University of California, San Diego   Fall 2024 – Spring 2026

M.S. in Computer Science

- Pilot Project: *A Qualitative Study of Tutor-Student Debugging Interactions.* Advisor: Michael Coblenz

Wellesley College   Fall 2020 – Spring 2024

B.A. double major in Computer Science and Sociology, Magna Cum Laude; GPA: 3.82/4.00

- Independent Study: *Study of Teacher's Community Engagement in United World Colleges.* Advisor: Matthew Kaliner
- Capstone Project: *Droplet Duo: 2D Platformer Collaborative Game For Educational Purpose.* Advisor: Jordan Tynes

Massachusetts Institute of Technology (MIT)   Spring 2021 – Spring 2024

Cross-registered Student; GPA: 4.50/5.00
Gordon-MIT One Year Engineering Leadership Program Graduate; GPA: 5.00/5.00

United World College (UWC) Atlantic and Changshu China   Fall 2017 – Spring 2020

IBDP class of 2020 in UWC Atlantic (Wales, the UK); bilingual IB diploma in English and Chinese
Pre-DP(FP) class of 2017 in UWC Changshu China

PUBLICATIONS

- Moore, Zhang, Gupta, Kuhlken, **Li**, & Lee (2023). **Online vs In-person Professional Learning Communities: A Qualitative Comparison of Teacher Learning Experiences.** Proceedings of the 16th International Conference on Computer-Supported Collaborative Learning - CSCL 2023. (Poster; Acceptance rate 30%)
  https://doi.org/10.22318/cscl2023.111030

RESEARCH EXPERIENCES

EdAI Project, MIT STEP Lab & Education Arcade   Summer 2022 – Spring 2024

Data Team and Curriculum Design Team Researcher, Field Investigator. co-PIs: Irene Lee, Helen Zhang

- Participated in a longitudinal study on how to teach underrepresented middle school students AI with a self-developed AI literacy curriculum in real classrooms. Collected classroom observation data, conducted qualitative thematic analysis on 40+ teaching professional development sessions, supported the curriculum design, and helped onboard new team members. Results were presented in CSCL 2023, the MIT STEP lab, and the 2023 Wellesley College Tanner Conference.

Wellesley College   Fall 2023 – Spring 2023

Research Assistant. Advisor: Markella Rutherford

- Worked on qualitative data analysis in educational sociology. Translated (Chinese to English), annotated, and coded on the social issues and educational focuses reflected through children's graphic novels.

Understanding the World Through Code Project at MIT CSAIL   Spring 2022

Instructional Material Designer. PI: Armando Solar-Lezama

- Coordinated in a team of 3 to produce teaching materials for 10+ hours of class time at the undergraduate level. Analyzed coursework materials and studies on neurosymbolic programming, program synthesis, and neural networks.

TEACHING EXPERIENCES

University of California, San Diego   Fall 2024

Teaching Assistant for CSE 11 Accl. Intro to Programming and Computational Problem-Solving

- Designed all exams and practice exam materials; led exam review sessions and held office hours; handled course logistics and mentored undergraduate students and tutors.

Wellesley College   Fall 2022 – Spring 2024

Teaching Assistant

- CS240 Fundamentals of Computer Systems (office hours, grading, recitations, instructional design): *Spring 2024*
- CS230 Data Structures in Java (office hours, grading): *Fall 2022*
- MATH225 Combinatorics and Graph Theory (grading): *Fall 2022*

GEC Tutoring Academy Teaching Assistant   Summer 2024

Teaching Assistant

- Provided weekly recitation and supplemental sessions on college-level introduction to AI/ML through Python; managed class logistics and provided individualized bilingual support through asynchronous communication, one-on-one office hours, and team-based meet-up sessions; graded assignments and evaluated student projects.

Dearborn STEM Academy (Boston Urban Teaching Fellowship Program)   Winter 2023

Assistant Teacher for 6th-11th Grades Urban Computer Science Class

- Observed and supported instruction in Robotics, Digital Photography Workflow, and Senior Projects.

INDUSTRY EXPERIENCEs

Chicago Public Schools Information and Technology Services (ITS)   Summer 2024

Information Security Team Summer Associate, Project Management

- Established a software contract tracking dashboard with Google Suite to support the team procurement; contributed to strategic planning by talking to 30+ vendors and evaluated software products' functionalities and costs.

Hundsun Technologies   Summer 2023

Java Full Stack Intern, FinTech

- Joined an Agile team of 9 to implement a carbon emissions trading system that supports million-row dataset processing. Communicated on-site with clients to understand trading logic, identified design needs, and conducted process testing.

180 Degree NGO Consulting at Wellesley College Sub-branch   Spring 2022

Strategy Consultant

- Applied consulting strategies of service blueprint, empathy map, and decision matrix to identify users' needs; provided learning management system (LMS) solution for Teaching Empathy Institute (TEI) after 3 rounds of negotiation.

PRESENTATIONS

- **Chatbots, Smart Assistants, & Security**. *Chicago Public Schools Googlepalooza.* August 2024.
- **Your Data is in the Cloud**. *Chicago Public Schools Googlepalooza.* August 2024.
- **EdAI UROP Share of Methods, Findings, and Outcomes**. *MIT STEP Lab & Education Arcade.* April 2024.
- **Research in STEM Education at the MIT STEP Lab: The Everyday AI (EdAI) Project**. *Wellesley College Tanner Conference.* November 2023.
- **Predicting Support Rates of Idol Survival Competition Based on Models of Past Seasons Voting Data**. *2022 Virtual Student Research Symposium on Statistics and Data Science, American Statistical Association.* April 2022.

SERVICES

- Mentor, Wellesley College Computer Science Club. 2021 – 2024
- Leadership, Wellesley College Engineering Society. 2022 – 2024
- UWC Great Britain Selection Committee Volunteer. 2023 – 2024

AWARDS AND HONORS

- Travel scholarship for Conference on Programming Language Design and Implementation Programming Languages Mentorship Workshop (PLMW@PLDI), 2024
- Alpha Kappa Delta International Honor Society of Sociology, 2024
- Boston Urban Teaching Fellowship, 2023
- Davis-UWC Scholar, 2020