Amy Liu

amyliiu.com | linkedin.com/in/amyliiu

EDUCATION

University of Michigan | GPA: 4.0/4.0 — Ann Arbor, MI
Bachelor of Science in Computer Science & Robotics — *Aug. 2024 – May 2028*
Relevant Coursework: Discrete Mathematics, Data Structures and Algorithms, Computer Organization

Michigan State University | GPA: 4.0/4.0 — East Lansing, MI
Dual Enrollment — *Aug. 2023 – May 2024*
Relevant Coursework: Linear Algebra, Differential Equations, Multivariable Calculus

Okemos High School | GPA: 4.0/4.0 | ACT: 36/36 — Okemos, MI
High School Diploma — *Aug. 2020 – May 2024*

EXPERIENCE

Wang Laboratory Intern — Jan. 2025 – Present
University of Michigan — *Ann Arbor, MI*
- Collecting datasets for expert-level Large Language Model benchmarking with Prof. Lu Wang.

Product Studio Engineer — Sep. 2024 – Dec. 2024
V1@Michigan — *Ann Arbor, MI*
- One of 14/200+ students chosen for Product Studio, an initiative on building software products from 0 to 1.
- Worked with facility managers to develop *courtline*, a badminton court queuing app for the North Campus Recreational Building. Successfully piloted the product and ran 8 games with 30+ sign-ups. Used Python, Next.js, FastAPI, and Twilio for notifications.

Tang Laboratory Intern — July 2023 – Feb. 2024
Michigan State University — *East Lansing, MI*
- Conducted NLP research with Prof. Jiliang Tang on detecting text generated by Large Language Models.
- Designed and collected a comprehensive public dataset *HC-Var (**H**uman **C**hatGPT Texts with **Var**iety)* with 140K+ samples of AI and human-generated texts in 4 domains, 12 tasks, with 3 prompts each.
- Trained 10+ machine learning models for text detection. Discovered a lack of generalization across domains.

Okemos Policy Debate Varsity Captain — Aug. 2019 – Apr. 2024
Okemos High School — *Okemos, MI*
- Attended 10+ national-level Policy Debate tournaments per year. Ranked 1st in Michigan (2022-2023) and top 100 in the US by National Speech and Debate Association (NSDA) points.
- Helped coach 40+ middle school debaters weekly for 3 years. Gave demo debates, taught hour-long lessons on each year's topic, judged practice debates by writing ballots. Organized a mock "final" tournament yearly.
- Notable awards: MIFA State Champions (2021, 2023), 1st/82 Speaker at Harvard JVCX, 2nd/60 Speaker at University of Michigan High School Debate Tournament, NSDA Qualifiers (2020-2023).

PUBLICATIONS

1. **On the Generalization of Training-based ChatGPT Detection Methods**
   Han Xu, Jie Ren, Pengfei He, Shenglai Zeng, Yingqian Cui, **Amy Liu**, Hui Liu, Jiliang Tang. In *Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP 2024)*.

PROJECTS

AutoCase | *React, TypeScript, Vite, Node.js, Puppeteer, Cheerio* — Dec. 2024 – Present
- Developing a web scraper to collect affirmative and negative arguments from openCaselist with teams from Tabroom. Will be used by high school policy debate teams, with 10+ students and coaches interested in MVP.

RecallRadar | *Python, Flask, React* — Sep. 2024
- Used the FDA's Recall API to develop an email notification system to update users of ongoing or resolved food recalls in their area.

SKILLS

Technical: Java, Python, C++, C, experience in convolutional neural networks and machine learning, Latex documents
Languages: English (fluent), Mandarin (fluent), Spanish (elementary proficiency)
Interests: Reading, travel, mahjong, crochet, skateboarding, podcasts, violin (Michigan Pops Orchestra)