Jerry Chen

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Education

Massachusetts Institute of Technology (MIT) — *Cambridge, MA*
Bachelor of Science in Artificial Intelligence & Decision Making, GPA: 4.5/5.0 — *Expected May* 2028

- **Relevant Coursework:** Machine Learning, Computer Vision, Design & Analysis of Algorithms, Algorithms & Data Structures, Fundamentals of Programming, Linear Algebra, Probability and Statistics, Autonomous Machines

Skills

Programming Languages: Python, Java, TypeScript, C++, MATLAB

Technical Skills: PyTorch, React, FastAPI, Node.js, Docker, GCP, NumPy, Pandas, Scikit-learn, Jupyter, MongoDB

Languages: English (Native), Mandarin Chinese (Native), Spanish (Native)

Experience & Projects

Dasko — AI "Learn by Teaching" Platform — *GenAI Zurich Hackathon*
Overall Grand Hackathon Winner ($6,300) — *April 2026*

- Built a real-time multimodal classroom where users teach 2–4 AI students through voice and vision; implemented natural barge-in audio, live whiteboard compositing, and mid-session language switching.
- Architected Node.js/TypeScript backend with WebSocket streaming, Gemini Live API for bidirectional audio/vision, and deployed on Google Cloud Run with Docker CI/CD.

Waypoint — AI Browser Automation Agent — *Google DeepMind Hackathon*
3rd Place ($1000) — *March 2026*

- Developed an autonomous agent that converts natural language instructions into executable browser workflows using Playwright and Gemini API, with shareable one-click "manuals" requiring zero code.
- Built full-stack MVP with FastAPI backend and React/Vite frontend; deployed live on Render with session logging and screenshot capture.

MIT Li Group (Materials Science & Engineering) — *Cambridge, MA*
AI Researcher (UROP) — *February 2026–Present*

- Building a scalable labeling platform for scientific datasets, optimizing SOTA segmentation models (e.g., SAM3) to automate metadata extraction from multi-dimensional instrumentation.

Universidad de Puerto Rico, ChenLab — *Rio Piedras, PR*
LLM Research Assistant — *December* 2025–*February* 2026

- Engineered an automated pipeline (MinerU, Gemini, Python) to extract structured datasets from unstructured materials science PDFs with cryptographic tracking for 100% auditability.

MIT Energy & Climate Career Fair — *Cambridge, MA*
Director of Outreach — *August* 2025–*March* 2026

- Drove outreach to 60+ employers across energy, climate tech, and AI; managed end-to-end recruiter lifecycles, increasing company participation and sector diversity.

Universidad de Puerto Rico — *Rio Piedras, PR*
Computational Materials Researcher — *May* 2022–*May* 2024

- Authored a first-author manuscript (under review) predicting the first metallic boron nitride monolayer through density functional theory simulations.

Leadership & Activities

- **Research Team Leader**, *Youth4AM / SEE China* (led 7-person team evaluating AI workflows at Tencent, Alibaba).
- **Social Chair**, *New House* (organized dorm-wide events for 250+ residents).
- **President**, *Saint John's School Student Council* (organized 5 school-wide events, raised $30k sponsorship).

Selected Awards

- **International Science & Engineering Fair (ISEF):** Two-time finalist and Award Winner (2023, 2024).
- **International Math Olympiad (IMO):** One of 4 selected to represent Puerto Rico (2023).