Matthew Jeung

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EDUCATION

University of Chicago
Chicago, IL

BS in Computer Science, Specialization in Machine Learning
Expected, 2026

- **GPA:** 3.85/4
- **Awards:** UIST 2025 Best Demo, CRA Outstanding Undergraduate Researcher Award Nominee, Quad Undergraduate Research Award (2x), Humanities UX Scholar, Jeff Metcalf Fellowship
- **Relevant Coursework:** Theory of Algorithms, Math Foundations for Machine Learning, Engineering Interactive Devices, Mobile Computing.
- **Graduate Coursework:** Introduction to Machine Learning, Robot Learning and Estimation

EXPERIENCE

Toyota Technological Institute at Chicago
June 2025 - Present

Robotics and AI Intern, Robot Intelligence through Perception Lab
Chicago, IL

- *Video Deep Learning*: worked on autoencoder architecture for robot learning paper.
- *Deep RL for Locomotion*: trained multi-module locomotion policy in custom MuJoCo simulation.
- Extensive experience with PyTorch, parallelized GPU training, data processing, and visualization.
- Developed computer vision curriculum for HS robotic arm course.

Actuated Experience Lab
September 2023 – Present

Research Assistant
Chicago, IL

- *Shape n' Swarm*: Led research to control over 40 robots in real-time with hands and speech (Won Best Demo at UIST 2025).
- Co-led haptics research paper in industry collaboration with Sony Research (anonymized for CHI 2026 review).
- Developed physics simulation tools, robot-LLM integrations, React frontends, and path-planning logic for projects.

EduAvenues
June 2023 – September 2023

Software Engineering Intern
Remote

- Developed online standardized test simulator used by over 1100 paying users each year

PUBLICATIONS

- Jeung, M., et al. Shape n' Swarm: Hands-on, Shape-aware Generative Authoring with Swarm UI and LLMs. Full Paper, Best Demo at UIST 2025 (ACM Symposium on User Interface Software and Technology).

PROJECTS AND ACTIVITES

UChicago Robotics Team
October 2024-Present

Combat Robotics Team
Chicago, IL

- Won MakeHarvard 2025 Most Sustainable Project with glove integrated with grocery sustainability feedback
- Designed 1-lb combat robot from scratch, developing Fusion 360, electronics, and prototyping skills

Ambient Song Selector for Spotify (iOS)
April 2024 - June 2024

- Developed ML-based Spotify extension to autoplay songs based on physical activity and environment

Phoenix Sustainability Initiative
September 2023 – May 2024

Green Data Team
Chicago, IL

- Performed Python data analysis and visualization on Chicago environmental justice and health conditions.

TECHNICAL SKILLS

Programming: Python, Java, Swift, C/C++, JavaScript, PyTorch, React, Processing
Electonics and Hardware: Microcontrollers, PCB design, Fusion 360, Rhino