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
- **Honors:** 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, Research Assistant, 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 30 robots in real-time with hands and speech (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. Accepted to 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