

Youhui (Jeffrey) Wang

TEL: (607)-216-2616 | E-mail: jeffrey_wang@college.harvard.edu | LinkedIn: www.linkedin.com/in/youhuiwang

EDUCATION

Cornell University (GPA: 3.9/4.0)

B.S. in Information Science (Major), Robotics (Minor), and Artificial Intelligence (Minor)

Ithaca, NY

Expected May 2027

- Relevant Coursework: Machine Learning, Deep Learning, AI Planning & Learning, Computer Science (Python, Java, Julia, R, MATLAB), Networks, Web Design, Discrete Mathematics, Statistics, Differential Equations, Linear Algebra, Multivariable Calculus
- Teaching Experience: CS 1340 Teaching Assistant; CHEM 2070, CS 1112, MATH 1910, MATH 1920 Student Assistant

Harvard University & Massachusetts Institute of Technology (M.I.T.)(GPA: 4.0/4.0)

Cambridge, MA

Visiting Undergraduate Scholar

August 2025 – May 2026

Coursera Certificates

- “Deep Learning” Specialization (Stanford & DeepLearning.AI)

Online

December 2023

- “Machine Learning” Specialization (Stanford & DeepLearning.AI)

September 2023

WORK EXPERIENCE

CogAI Lab at Stanford Vision and Learning Lab (SVL)

Stanford, CA

Research Advisors: Raven Huang, Jiajun Wu (PI), Fei-fei Li (PI)

November 2025 – Now

- Developing Sim2RealGen, a video-based sim-to-real learning framework that enables robots to imagine and evaluate task-relevant scene variations offline via generated RGB-depth videos, improving real-world manipulation without physical trial-and-error.

AIR-DREAM Lab at the Institute for AI Industry Research (AIR) at Tsinghua University

Beijing, China

Research Intern; Research Advisors: Peng Cheng, Xianyuan Zhan (PI)

May 2025 – August 2025

- Developed an offline RL model combining FISOR (Feasibility-guided Safe Offline RL) and TELS (T-symmetry Enforced Latent State-Stitching) frameworks to enhance safe learning and optimize national data center cooling under limited, low-quality data using PyTorch.

RESEARCH EXPERIENCE

Harvard Microrobotics Lab

Cambridge, MA

Research Advisors: Elio Challita, Robert Wood (PI)

November 2025 – Now

- Designed and controlled a bio-inspired aerial microrobot using ROS-based control pipelines, implementing feedback and state-estimation modules to maintain stable flight under strong upward airflow and dynamic aerodynamic disturbances.

Harvard Edge Computing Lab

Cambridge, MA

Research Advisors: Jason Jabbour, Vijay Reddi (PI)

August 2025 – Now

- Developed GLUSTICK, a post-pruning recovery method for VLA models that restores robotic safety and performance without retraining by combining model compression, SVD-based correction, and efficient deployment on edge hardware
- Publication: “Don’t Run with Scissors: Pruning Breaks VLA Models but They Can Be Recovered”, ICML 2026 (under review)

Organic Robotics Laboratory

Ithaca, NY

Research Advisors: Ofek Peretz, Robert Shepherd (PI)

September 2024 – September 2025

- Built energy-aware control strategies for a bio-inspired robotic fish, integrating an origami wave-energy harvester with closed-loop locomotion control to extend mission duration by 70%+, earning the U.S. Department of Energy’s In DEEP Prize

Reid’s Research Laboratory

Ithaca, NY

Research Advisor: Matthew Reid (PI)

September 2024 – September 2025

- Built a Markovian decision-making control framework for stormwater bioreactors, modeling system dynamics as state transitions and leveraging real-time redox observations to optimize nutrient removal performance over 30 days

Charles’ Research Group

Ithaca, NY

Research Advisor: Michael Charles (PI)

August 2023 – September 2025

- Applied AI-driven network modeling in Python/Julia to simulate 50 ecological and engineered systems, using representation learning-inspired dimensionality reduction (PCA) and objective analysis to optimize system performance and design

TECHNICAL EXPERIENCE

Engineers Without Borders (EWB) Cornell Project Team

Ithaca, NY

Team Advisor: Peter Hess

September 2024 – September 2025

- Built a drone-rover sensing system with GPS and NDVI cameras, deploying computer vision and lightweight ML pipelines on edge hardware with cloud coordination for large-scale crop disease detection and open-source collaboration

Cornell Makers Club

Ithaca, NY

Member (Robotics Subteam)

September 2024 – September 2025

- Developed and programmed a soft robotic exoskeleton enabling learning based compliant manipulation and adaptive grasping

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

Engineering Student Organization

Ithaca, NY

Executive Board Member

August 2024 – September 2025

- Organized 10+ engineering campus events, including resume workshops and research panels of 20+ faculty and 100+ student attendees

SKILLS & INTERESTS

- **Languages:** Mandarin (native), English (work proficiency)

- **Technical skills:** Proficient in Python, PyTorch, C/C++, PyDrake, SQL, Java, Julia, MATLAB, R, SolidWorks, ML, Data Analysis

- **Interests:** Researching, Programming, Robotics, Basketball, Tennis, Squash, Skating, Ice Hockey, Swimming, Traveling