Ryan Punamiya

Contact Information

4th Year Undergraduate Student @ Georgia Tech Advised by Danfei Xu and Judy Hoffman
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Research Interests

My research is centered at the intersection of machine learning, computer, vision and robotics. I am interested by how we can maximize transfer from scalable human data for robot learning. Additionally, I am also interested in finding better ways of making vision, language, and action interact within robot learning.

Research Experience

Georgia Institute of Technology Atlanta, GA — Aug 2023 – Present
Research with Danfei Xu and Judy Hoffman
Domain adaptation from egocentric human video to robots for scalable and generalizable robot learning. Also exploring language steering and vision-language-action alignment within large foundation models for robotics.

Education

Georgia Institute of Technology — Aug 2022 – Present
Bachelor of Science, Computer Science — GPA: 4.0
Advised by Danfei Xu and Judy Hoffman

Conference Publications

[1] **Ryan Punamiya**, Dhruv Patel, Patcharapong Aphiwetsa, Pranav Kuppili, Lawrence Y. Zhu, Simar Kareer†, Judy Hoffman†, Danfei Xu†. "EgoBridge: Domain Adaptation for Generalizable Imitation from Egocentric Human Data", *NeurIPS*, 2025. ego-bridge.github.io

[2] Simar Kareer, Dhruv Patel*, **Ryan Punamiya***, Pranay Mathur*, Shuo Cheng, Chen Wang, Judy Hoffman†, Danfei Xu†. "EgoMimic: Scaling Imitation Learning through Egocentric Video", *ICRA*, 2025. egomimic.github.io

Workshop Publications

[3] **Ryan Punamiya**, Dhruv Patel, Patcharapong Aphiwetsa, Pranav Kuppili, Lawrence Y. Zhu, Simar Kareer†, Judy Hoffman†, Danfei Xu†. "EgoBridge: Domain Adaptation for Generalizable Imitation from Egocentric Human Data", *CoRL H2R Workshop*, 2025. Best Paper Finalist

Under Review

[4] Lawrence Y. Zhu, Pranav Kuppili*, **Ryan Punamiya***, Patcharapong Aphiwetsa, Dhruv Patel, Simar Kareer, Sehoon Ha, Danfei Xu. "EMMA: Scaling Mobile Manipulation via Egocentric Human Data", *Preprint*, 2025. ego-moma.github.io

Awards

Best Paper Finalist at CoRL Human2Robot Workshop — 2025
President's Undergraduate Research Award x 3 — 2024,2025
Overall Event Winner AI ATL Hackathon (1 of 225) — 2023
Georgia Tech Grand Challenges Grant ($700) — 2023

Professional Activities

Reviewing
Conference on Robot Learning Human2Robot Workshop — 2025
Advising
Patcharapong Aphiwetsa (BS Georgia Tech)

Select Projects

Partnr. Fall 2023
RAG and AI agents to make an intelligent co-pilot for consultants.
(Website)

van.Go Fall 2023
Computer vision and deep learning to generate brushstroke-by-brushstroke painting tutorials.
(Website)

RoadSense Spring 2023
Passive embedded system to autonomously detect potholes while vehicles drive around.
(Poster)