TIANCHONG JIANG

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Education

Toyota Technological Institute at Chicago Sep. 2024 - Sept. 2030 (Expected)
PhD in Computer Science
University of Chicago Sep. 2019 - Dec. 2023
B.A. Mathematics | B.S. Computer Science with Honors
GPA: 3.89/4.00; magna cum laude

Skills

ROS, PyTorch, Docker, LaTex, Git, MuJoCo, Slurm

Publications and Pre-Prints

T. Jiang, J. Ji, X. Tan, J. Fang, A. Bhattad, V. Guizilini, and M. R. Walter. "Do You Know Where Your Camera Is? View-Invariant Policy Learning with Camera Conditioning," in *2026 IEEE International Conference on Robotics and Automation (ICRA)*, 2026.

X. Tan, J. Ji, **T. Jiang**, P. Lopes, and M. R. Walter. "HapCompass: A Rotational Haptic Device for Contact-Rich Robotic Teleoperation," in *2026 IEEE International Conference on Robotics and Automation (ICRA)*, 2026.

L. Sun, T. Yoneda, S. W. Wheeler, **T. Jiang**, and M. R. Walter. "StackGen: Generating Stable Structures from Silhouettes via Diffusion," in *2025 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2025.

T. Ayalew, X. Zhang, K. Y. Wu, **T. Jiang**, M. Maire, and M. R. Walter. "PROGRESSOR: A Perceptually Guided Reward Estimator with Self-Supervised Online Refinement," in *2025 IEEE/CVF International Conference on Computer Vision (ICCV)*, 2025.

T. Yoneda*, J. Fang*, P. Li*, H. Zhang*, **T. Jiang**, B. Picker, D. Yunis, S. Lin, H. Mei, and M. R. Walter. "Statler: STATe-maintaining Language models for Embodied Reasoning," in *2024 IEEE International Conference on Robotics and Automation (ICRA)*, May 2024.

T. Yoneda*, **T. Jiang***, G. Shakhnarovich, and M. R. Walter. "6-DoF Stability Field via Diffusion Models," *arXiv preprint*, Oct. 2023.

Experience

Research Assistant, Robot Intelligence through Perception Lab October 2024 - Present
• Led a project on view-invariant imitation learning by conditioning on camera parameters. (PyTorch, MuJoCo, Transformers, ROS)
Research Assistant, Robot Intelligence through Perception Lab August 2022 - June 2024
• Implemented an SE(3) diffusion model to predict stable object configurations. (PyTorch, MuJoCo)
• Co-developed a Large Language Model interface for a UR5 robot arm, demonstrated to thousands of visitors at the Museum of Science and Industry in Chicago. (ROS, UR5)

Teaching

TA for MPCS 50103 Discrete Mathematics Autumn 2022
TA for TTIC 31170 Planning, Learning, and Estimation for Robotics and Artificial Intelligence Spring 2025

Service

Reviewer for IROS 2025; ICCV 2025; ICRA 2026; TMLR

Relevant Coursework

Introduction to Machine Learning; Algorithms; Algorithmic Game Theory; Fundamentals of Deep Learning; Generative Models, Art and Perception; Planning, Learning, and Estimation for Robotics and Artificial Intelligence; Unsupervised Learning; Mathematical Toolkit; Learning on Graphs and Manifolds; Introduction to Computer Vision; Introduction to Statistical Machine Learning