Zhanyi Sun

zhanyis@stanford.edu — Website — Google Scholar — (832) 661-5087

Education

Stanford University, Stanford, CA — Sep 2024 — Present
Ph.D. in Electrical Engineering
Advisor: Shuran Song

Carnegie Mellon University, Pittsburgh, PA — Aug 2022 — Jun 2024
Master of Science in Robotics
Advisors: David Held, Zackory Erickson

Rice University, Houston, TX — Aug 2018 — May 2022
B.S. in Electrical Engineering and B.A. in Computer Science
Advisors: Lydia Kavraki, Vaibhav Unhelkar

Publications (* indicates equal contribution)

RL-VLM-F: Reinforcement Learning from Vision Language Foundation Model Feedback
Yufei Wang*, **Zhanyi Sun***, Jesse Zhang, Xian Zhou, Erdem Bıyık, David Held†, Zackory Erickson†
International Conference on Machine Learning (ICML), 2024
Project Website, Paper, code

Force-Constrained Visual Policy: Safe Robot-Assisted Dressing via Multi-Modal Sensing
Zhanyi Sun*, Yufei Wang*, David Held†, Zackory Erickson†
IEEE Robotics and Automation Letters (RA-L), 2024
Project Website, Paper

One Policy to Dress Them All: Learning to Dress People with Diverse Poses and Garments
Yufei Wang, **Zhanyi Sun**, Zackory Erickson†, David Held†
Robotics: Science and Systems (RSS), 2023
Project Website, Paper

ViTCoD: Vision transformer acceleration via dedicated algorithm and accelerator co-design
Haoran You, **Zhanyi Sun**, Huihong Shi, Zhongzhi Yu, Yang Zhao, Yongan Zhang, Chaojian Li, Baopu Li, Yingyan Lin
IEEE International Symposium on High-Performance Computer Architecture (HPCA), 2023
Paper, Code

Supertickets: Drawing task-agnostic lottery tickets from supernets via jointly architecture searching and parameter pruning
Haoran You, Baopu Li, **Zhanyi Sun**, Xu Ouyang, Yingyan Lin
European Conference on Computer Vision (ECCV), 2022
Paper, Code

Human-guided motion planning in partially observable environments
Carlos Quintero-Pena*, Constantinos Chamzas*, **Zhanyi Sun**, Vaibhav Unhelkar, Lydia E Kavraki
International Conference on Robotics and Automation (ICRA), 2022
Project Website, Paper

Work & Teaching Experience

Software Engineering Intern, Infrastructure Team — May 2020 - Aug 2020
Facebook, Inc.

- Designed and implemented a resource manager service that maintains life cycles of various internal testing platforms.
- Designed and implemented a flexible resource managing API that enables other teams to plug in their testing platforms.

Skills

- **Programming:** Python, C, C++, Julia, Java, MATLAB, Verilog, SQL, PHP
- **Libraries:** PyTorch, TensorFlow, Keras, OpenCV, ROS, MuJoCo, Bullet, Blender
- **Physical Robots:** Experience with Sawyer, Franka Panda, and Fetch.

Professional Service

Reviewer for CoRL (2023, 2024), ICRA (2024), IROS (2024)