Yunshuang Li

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Education

University of Southern California, Ph.D. in Computer Science   **09/2024 – present**
Department of Computer Science, Advisor: Daniel Seita & Gaurav Sukhatme

University of Pennsylvania, M.S. in Robotics   **09/2022 – 05/2024**
Department of Computer and Information Science, Advisor: Dinesh Jayaraman

Zhejiang University, B.S. in Automatic Control   **09/2018 – 06/2022**
Chu Kochen Honors College, Dual degree in Mechanical Engineering

Publication

1 **Learning Geometry-aware Dexterous Nonprehensile Manipulation**
   Yunshuang Li, Yiyang Ling, Gaurav Sukhatme, Daniel Seita
   RSS Dexterous Manipulation Workshop, 2025 [PDF] [Website]

2 **Task-Oriented Hierarchical Object Decomposition for Visuomotor Control**
   Jianing Qian, Yunshuang Li, Bernadette Bucher, Dinesh Jayaraman
   8th Annual Conference on Robot Learning (CoRL), 2024 [PDF] [Website]

3 **DROID: A Large-Scale In-the-Wild Robot Manipulation Dataset**
   Alexander Khazatsky, Karl Pertsch* (et al., including Yunshuang Li)*
   RSS 2024 [PDF] [Website]

4 **Universal Visual Decomposer : Long-Horizon Manipulation Made Easy**
   Zichen Zhang, Yunshuang Li*, Osbert Bastani, Abhishek Gupta, Dinesh Jayaraman,*
   Yecheng Jason Ma†, Luca Weihs†
   CoRL Learning Effective Abstractions for Planning workshop (**Oral, Best Paper Award**), 2023;
   NeurIPS Foundation Models for Decision Making worshop (**Oral**), 2023;
   ICRA 2024 (**Best Paper Finalist in Computer Vision**) [PDF] [Website]

5 **Open X-Embodiment: Robotic learning datasets and RT-X models**
   Large collaboration (et al., including Yunshuang Li)
   ICRA 2024 (**Best Conference Paper Award**) [PDF] [Website]

6 **Im2Contact: Vision-Based Contact Localization Without Touch or Force Sensing**
   Leon Kim, Yunshuang Li, Michael Posa, Dinesh Jayaraman
   7th Annual Conference on Robot Learning (CoRL), 2023 [PDF] [Website]

7 **PEg TRAnsfer Workflow recognition challenge report: Does multi-modal data improve recognition?**
   Arnaud Huaulmé, Kanako Harada, (et al., including Yunshuang Li)
   Computer Methods and Programs in Biomedicine, 2023 [PDF]

8 **Control of Pneumatic Artificial Muscles with SNN-based Cerebellar-like Model**
   Yunshuang Li, Hongbo Zhang*, Yipin Guo*, Xinyi Chen, Qinyuan Ren*
   International Conference on Social Robotics (ICSR), 2021 [PDF]

9 **Collaborative Recognition of Feasible Region with Aerial and Ground Robots through DPCN**
   Yunshuang Li, Zheyuan Huang, Zexi Chen, Yue Wang, Rong Xiong

IEEE International Conference on Real-time Computing and Robotics (RCAR), 2021
[PDF]

Awards

USC Fellowship Award	2024
CoRL Travel Grant	2023 & 2024
Best Paper Finalist in Computer vision, ICRA	2024
President Gutmann Leadership Award, administered by GAPSA, UPenn	2023
Best Paper Award at CoRL LEAP workshop	2023
GAPSA Career Services Summer Funding at University of Pennsylvania	2023
Chiang Chen Oversea Graduate Scholarship	2022
National Scholarship issued by Ministry of Education of the People's Republic of China	2021
Champion of International Robotic Workflow Recognition Challenge in MICCAI 2021	2021

Service

Reviewer for CoRL, RSS Dexterous manipulation workshop	2025
Reviewer for NeurIPS FMDM workshop	2023
Teaching Assistant for CIS 5200 - Machine Learning.	Fall 2023
Teaching Assistant for MEAM 5200 - Introduction to Robotics.	Spring 2023

Industry Experience

Research Scientist Intern, Research Institute of HIKVISION	Summer 2022
Research Scientist Intern, 2012 Lab, HUAWEI Co. Ltd	Summer 2019

Miscellaneous Experience

Board Member of Penn Chinese Dance Club	2023
Volunteer for 5th Annual Learning for Dynamics & Control Conference (L4DC)	June 2023
Instructor of Python Club at Carver Engineering and Science High School, Philadelphia	Spring 2023
Volunteer for GRASP ROBO Master's Student Open House	March 2023
Volunteer Instructor for a Rural High School, Yunnan, China	Summer 2020

Technical Skills

Languages: Python, MATLAB, C, C++, HTML/CSS, LaTeX
Developer Tools: VS Code, Anaconda, Docker
Technologies/Frameworks: Linux, ROS, PyTorch, Tensorflow, AutoCAD, Solidworks, GitHub