

YUNSHUANG LI

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Education

University of Southern California , Ph.D. in Computer Science <i>Department of Computer Science, Advisor: Daniel Seita & Gaurav Sukhatme</i>	08/2024 – present
University of Pennsylvania , M.S. in Robotics <i>Department of Computer and Information Science, Advisor: Dinesh Jayaraman</i>	08/2022 – 05/2024
Zhejiang University , B.S. in Automatic Control <i>Chu Kochen Honors College, Dual degree in Mechanical Engineering</i>	08/2018 – 07/2022

Publication

- 1 **Learning Geometry-Aware Nonprehensile Pushing and Pulling with Dexterous Hands**
Yunshuang Li, Yiyang Ling, Gaurav Sukhatme, Daniel Seita
Under Review, 2025 [PDF] [Website]
- 2 **Motion Capture with Millimeter-Wave Tags**
Xin Yang, Freddy Yifei Liu, Yunshuang Li, Yao Gong, Dinesh Jayaraman, Omid Abari, Mingmin Zhao
SenSys, 2025 [PDF] [Website]
- 3 **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]
- 4 **DROID: A Large-Scale In-the-Wild Robot Manipulation Dataset**
Alexander Khazatsky, Karl Pertsch* (et al., including Yunshuang Li)*
RSS 2024 [PDF] [Website]
- 5 **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 workshop (**Oral**), 2023;
ICRA 2024 (**Best Paper Finalist in Computer Vision**) [PDF] [Website]
- 6 **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]
- 7 **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]
- 8 **PEg TRAnsfer Workflow recognition challenge report: Does multi-modal data improve recognition?**
Arnaud Huaulm , Kanako Harada, (et al., including Yunshuang Li)
Computer Methods and Programs in Biomedicine, 2023 [PDF]

9 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]

10 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 Viterbi School of Engineering Fellowship	2024
USC Women in Science and Engineering Graduate Top-Off Award	2024
CoRL Travel Grant	2023 & 2024
Outstanding Masters Student Researcher Award, SEAS, UPenn	2024
Best Conference Paper Award, ICRA	2024
Best Paper Finalist in Computer Vision, ICRA	2024
Best Paper Award at CoRL LEAP workshop	2023
President Gutmann Leadership Award, administered by GAPSA, UPenn	2023
Chiang Chen Oversea Graduate Scholarship	2022
Outstanding Graduate of Zhejiang Province	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

Conference Reviewer: CoRL, ICRA	
Workshop Reviewer: NeurIPS, ICRA, RSS	
Teaching Assistant for CSCI 103 - Introduction to Programming, at USC.	Spring 2025
Teaching Assistant for CIS 5190 - Applied Machine Learning, at UPenn.	Spring 2024
Teaching Assistant for CIS 5200 - Machine Learning, at UPenn.	Fall 2023
Teaching Assistant for MEAM 5200 - Introduction to Robotics, at UPenn.	Spring 2023

Mentorship

Ethan Foong, Undergrad from Northwestern University	Next:
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Miscellaneous Experience

Volunteer for Robotic Science and System 2025	June 2025
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, L^AT_EX

Developer Tools: VS Code, Anaconda, Docker

Technologies/Frameworks: Linux, ROS, PyTorch, Tensorflow, AutoCAD, Solidworks, GitHub