Yunshuang Li

J 215-397-8150 **≥** sheylali@seas.upenn.edu **○** li-yunshuang.github.io

Education	
University of Pennsylvania, M.S. in Robotics Department of Computer and Information Science, Advisor: Dinesh Jayaraman	09/2022 – present <i>GPA:</i> 4.00/4.00
Zhejiang University, B.S. in Automatic Control Chu Kochen Honors College, Dual degree in Mechanical Engineering	09/2018 - 06/2022 Major GPA: 3.98/4.00
Publication	
1 Universal Visual Decomposer: Long-Horizon Manipulation Made Ea Zichen Zhang*, Yunshuang Li*, Osbert Bastani, Abhishek Gupta, Dinesh Jaya Luca Weihs† CoRL Learning Effective Abstractions for Planning workshop (Oral, Best Pap NeurIPS Foundation Models for Decision Making worshop, (Oral) 2023; in Submission, ICRA 2024. [PDF] [Website]	raman, Yecheng Jason Ma^{\dagger} ,
2 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]	
3 PEg TRAnsfer Workflow recognition challenge report: Does multi-morecognition? Arnaud Huaulmé, Kanako Harada, (et al., including Yunshuang Li) Computer Methods and Programs in Biomedicine, 2023 [PDF]	odal data improve
4 Control of Pneumatic Artificial Muscles with SNN-based Cerebellar-li Hongbo Zhang*, <u>Yunshuang Li*</u> , Yipin Guo*, Xinyi Chen, Qinyuan Ren International Conference on Social Robotics (ICSR), 2021 [PDF]	ike Model
5 Collaborative Recognition of Feasible Region with Aerial and Ground Yunshuang Li, Zheyuan Huang, Zexi Chen, Yue Wang, Rong Xiong IEEE International Conference on Real-time Computing and Robotics (RCAR),	_
Projects	
Tag-assisted Manipulation Using Predictive Model Utilized wireless sensors to enable precise localization of a high frame rate tag, helping agile m	07/2023-present anipulation tasks.
Navigation Recovery RL: Safe Navigation Using Learned Recovery Zones Investigated Recovery RL that can leverage offline data of constraint violations to learn about with the environment.	03/2023-05/2023 constraints before interacting
Image Translation Toward Multimodality Proposed a novel module based on BicycleGAN to handle with multimodal image translation	12/2022 problem.
MBTI Personality Trait Classification Using Textual Data Tackled the complex problem of personality trait classification given a combination of textual	12/2022 data.
3D Scene Reconstruction For Lung Bronchoscopic Surgical Robots Senior Thesis: Developed a pipeline that processes raw sequential data from image-guided bronlung structure.	03/2022-07/2022 achoscopy, reconstructing the 3D
Awards	
Best Paper Award at CoRL LEAP workshop	2023
CoRL 2023 Travel Grant	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

2020

2020

Gold medal in the Internet+ Innovation and Entrepreneurship Competition

Gold medal in the National Challenge Cup Competition

Service

Reviewer for NeurIPS FMDM workshop	2023
Teaching Assistant for CIS 5200 - Machine Learning. Instructor	Fall 2023
Teaching Assistant for MEAM 5200 - Introduction to Robotics. Instructor	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	

Developer Tools: VS Code, Anaconda, Docker

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