

YUNSHUANG LI

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Education

University of Pennsylvania , M.S. in Robotics <i>Department of Computer and Information Science, Advisor: Dinesh Jayaraman</i>	09/2022 – present <i>GPA: 4.00/4.00</i>
Zhejiang University , B.S. in Automatic Control <i>Chu Kochen Honors College, Dual degree in Mechanical Engineering</i>	09/2018 – 06/2022 <i>GPA: 3.98/4.00</i>

Publication

- 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]
- PEg TRAnsfer Workflow recognition challenge report: Does multi-modal data improve recognition?**
Arnaud Huault, Kanako Harada, (et al., including Yunshuang Li)
Computer Methods and Programs in Biomedicine, 2023 [PDF]
- Control of Pneumatic Artificial Muscles with SNN-based Cerebellar-like Model**
Hongbo Zhang, Yunshuang Li*, Yipin Guo*, Xinyi Chen, Qinyuan Ren*
International Conference on Social Robotics (ICSR), 2021 [PDF]
- 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]

Projects

Tag-assisted Manipulation Using Predictive Model Utilized wireless sensors to enable precise localization of a high frame rate tag, helping agile manipulation tasks.	07/2023-present
Navigation Recovery RL: Safe Navigation Using Learned Recovery Zones Investigated Recovery RL that can leverage offline data of constraint violations to learn about constraints before interacting with the environment.	03/2023-05/2023
Image Translation Toward Multimodality Proposed a novel module based on BicycleGAN to handle with multimodal image translation problem.	12/2022
MBTI Personality Trait Classification Using Textual Data Tackled the complex problem of personality trait classification given a combination of textual data.	12/2022
3D Scene Reconstruction For Lung Bronchoscopic Surgical Robots Senior Thesis: Developed a pipeline that processes raw sequential data from image-guided bronchoscopy, reconstructing the 3D lung structure.	03/2022-07/2022

Awards

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
Gold medal in the Internet+ Innovation and Entrepreneurship Competition	2020
Gold medal in the National Challenge Cup Competition	2020

Teaching

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 for Python Club at Carver Engineering and Science High School, Philadelphia	Spring 2023
GRASP ROBO Master's Student Open House Volunteer	March 2023
Volunteer teacher at an education resources underprivileged high school, Yunnan, China	Summer 2020

Technical Skills

Languages: Python, ROS, MATLAB, C, C++, HTML/CSS, \LaTeX

Developer Tools: VS Code, Anaconda, Docker

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