

YULIN LIU

(619)9537563 ◊ yul266@ucsd.edu ◊ [Personal Page](#) ◊ [Google Scholar](#)

EDUCATION

- Ph.D. of CSE**, University of California San Diego 2023.9 - present
- Advisor: *Prof. Henrik Christensen*, Research Topics: Dexterous Manipulation, Perception
- Bachelor of Physics**, Peking University 2019.9 - 2023.7
- Grade Point Average: **3.85**/4.00 (Ranking Top 10/174)

EXPERIENCE

- Amazon Frontier AI & Robotics (FAR)**, Research Intern 2025.12 - present
- Mentor: *Prof. Haozhi Qi*
- Hillbot Inc.**, Research Intern 2024.6 - 2024.9
- Mentor: *Prof. Hao Su, Dr. Zhiao Huang*, Project: VR Teleoperation System

PUBLICATION

- Zhengdong Hong*, **Yulin Liu***, Haowen Hou, Bo Ai, Jun Wang, Tongzhou Mu, Yuzhe Qin, Jiayuan Gu, Hao Su, *Learning Particle-Based World Model from Human for Robot Dexterous Manipulation*, **RSS-Dex 2025 (Oral)**
- **Yulin Liu***, Zihao He*, Fanbo Xiang*, Runlin Guo, Zhiao Huang, Jialin Zhang, Bo Ai, Stone Tao, Hao Su, *ImVR: Immersive VR Teleoperation System for General Purpose*, **RSS-Dex 2025 (Oral)**
- Zihao He*, Bo Ai*, **Yulin Liu**, Weikang Wan, Henrik I Christensen, Hao Su, *Learning Dexterous Deformable Object Manipulation Through Cross-Embodiment Dynamic Learning*, **RSS-SWOMO, RSS-Dex, ICRA-WK 2025**
- Liangzhi Shi*, **Yulin Liu***, Lingqi Zeng*, Bo Ai, Zhengdong Hong, Hao Su, *Learning Adaptive Dexterous Grasping from Single Demonstrations*, **IROS 2025**
- Stone Tao*, Fanbo Xiang*, Arth Shukla, Yuzhe Qin, Xander Hinrichsen, Xiaodi Yuan, Chen Bao, Xinsong Lin, **Yulin Liu**, Tse-kai Chan, Yuan Gao, Xuanlin Li, Tongzhou Mu, Nan Xiao, Arnav Gurha, Zhiao Huang, Roberto Calandra, Rui Chen, Shan Luo, Hao Su, *ManiSkill3: GPU Parallelized Robotics Simulation and Rendering for Generalizable Embodied AI* **RSS 2025**
- Chao Xu, Ang Li, Linghao Chen, **Yulin Liu**, Ruoxi Shi, Hao Su, Minghua Liu, *SpaRP: Fast 3D Object Reconstruction and Pose Estimation from Sparse Views*, **ECCV 2024**
- Hansheng Chen, Ruoxi Shi, **Yulin Liu**, Bokui Shen, Jiayuan Gu, Gordon Wetzstein, Hao Su, Leonidas Guibas, *Generic 3D Diffusion Adapter Using Controlled Multi-View Editing*, **Arxiv Preprint**
- **Yulin Liu***, Haoran Liu*, Yingda Yin*, Yang Wang, Baoquan Chen, He Wang, *Delving into Discrete Normalizing Flows on $SO(3)$ Manifold for Probabilistic Rotation Modeling*, **CVPR 2023**

HONORS & REWARDS

- National Scholarship (Top 1%), *Ministry of Education in China* 2021
- Merit Students (Every year), *Peking University* 2019-2023
- Wu-Si Scholarship, highest scholarship in *Peking University* 2022
- First-Class Scholarship, *Peking University* 2020
- 1st Prize in Chinese Physics Olympiad, ranking 3rd among girls, *China* 2018

TEACHING

- Teaching Assistant, CSE276F Machine Learning For Robotics, *UC, San Diego* Spring 2025
- Teaching Assistant, Electromagnetism, *Peking University* Spring 2023

MENTORING

- Chen Si (MS, *UC, San Diego*) 2025
- Liangzhi Shi (Undergrad, *Tsinghua University*) 2024-2025
- Lingqi Zeng (Undergrad, *Hong Kong University of Science and Technology*) 2024-2025

SERVICES

- Conference Reviewer: ICRA '24,'26, IROS '25, CoRL '25
- Journal Reviewer: RA-L, TCSVT
- Workshop Reviewer: ICLR-Robotics '25, RSS-DEX '25

SKILLS

- **Programming:** Python, C, C++, L^AT_EX
- **Robotics & Simulation:** SAPIEN, ManiSkill, IsaacGym
- **AI Framework:** Pytorch, Pytorch Geometric
- **DevOps & HPC:** Git, Docker, Kubernetes
- **Robots:** UFACTORY xArm6/7, ACTORY xArm Gripper, Ability Hand
- **Language:** English(TOEFL 104, fluent), Chinese (native)

MISC.

Last update: 26.3.