YULIN LIU

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EDUCATION

University of California San Diego 2023.09 – present
Ph.D. candidate in Computer Science & Engineering (final year)

- Advisor: *Prof. Henrik Christensen* 2026.03 – present
- Previous advisor: *Prof. Hao Su* 2023.09 – 2026.03
- Research: Dexterous manipulation and robot learning from human demonstrations, with teleoperation and hand tracking.

B.S. in Physics, Peking University 2019.09 – 2023.06

- Grade Point Average: **3.85**/4.00 (Ranking Top 10/174)

EXPERIENCE

Amazon Frontier AI & Robotics (FAR), Research Intern 2025.12 – 2026.09

- Mentor: *Prof. Haozhi Qi*, *Prof.* Karen Liu

Hillbot Inc., Research Intern 2024.06 – 2024.09

- Mentors: *Prof. Hao Su, Dr. Zhiao Huang*; Project: VR Teleoperation System

EPIC Lab, Peking University, Research Intern 2022.06 – 2023.06

- Research advisor: *Prof. He Wang*

PUBLICATIONS

* Equal contribution; † Corresponding author.

- **Yulin Liu**, Lai Wei, Yen-Jen Wang, Akash Sharma, Pieter Abbeel, Henrik I. Christensen, Haozhi Qi†, *GOTT: Object-centric Dexterous Manipulation with a Reusable Cross-Embodiment Primitive*, **arXiv 2026; CoRL-Dex 2026 (Oral)**
- Chen Si*, **Yulin Liu***, Bo Ai, Jianwen Xie, Rolandos Alexandros Potamias, Chuanxia Zheng, Hao Su†, *AnyHand: A Large-Scale Synthetic Dataset for RGB(-D) Hand Pose Estimation*, **NeurIPS 2026**
- Zihao He*, Bo Ai*, Tongzhou Mu, **Yulin Liu**, Weikang Wan, Jiawei Fu, Yilun Du, Henrik I. Christensen†, Hao Su†, *Scaling Cross-Embodiment World Models for Dexterous Manipulation*, **IROS 2026 (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)**
- Liangzhi Shi*, **Yulin Liu***, Lingqi Zeng*, Bo Ai, Zhengdong Hong, Hao Su†, *Learning Adaptive Dexterous Grasping from Single Demonstrations*, **IROS 2025 (Oral)**
- 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, Viswesh Nagaswamy Rajesh, Yong Woo Choi, Yen-Ru Chen, Zhiao Huang, Roberto Calandra, Rui Chen, Shan Luo, Hao Su†, *ManiSkill3: GPU Parallelized Robotics Simulation and Rendering for Generalizable Embodied AI*, **RSS 2025; ICLR-Robot Learning 2025 (Oral)**
- 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; ECCV-CV4Metaverse 2024 (Oral)**
- Hansheng Chen, Bokui Shen, **Yulin Liu**, Ruoxi Shi, Linqi Zhou, Connor Z. Lin, Jiayuan Gu, Hao Su, Gordon Wetzstein, Leonidas Guibas†, *3D-Adapter: Geometry-Consistent Multi-View Diffusion for High-Quality 3D Generation*, **arXiv 2024**
- **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 & AWARDS

- Outstanding Reviewer, *Conference on Robot Learning (CoRL)* 2026
- 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* → PhD, *NTU*) 2025-current
- Phlcia (Undergrad, *UC San Diego*) 2025-2026
- Zihao He (Undergrad, *SJTU* → PhD, *UMD*) 2025
- Liangzhi Shi (Undergrad, *Tsinghua* → PhD, *Tsinghua*) 2024-2025
- Lingqi Zeng (Undergrad, *HKUST* → MS, *UC San Diego*) 2024-2025

SERVICES

- Conference Reviewer: ICRA 24'26'27'; IROS 24'25'26'; CoRL 25'26' (**Outstanding Reviewer, 2026**)
- Journal Reviewer: RA-L, TCSVT, TOMM
- Workshop Reviewer: ICLR-Robotics 25'; RSS-Dex 25'26'; CoRL-Dex 26'; CoRL-TAG 26'

SKILLS

- **Programming**: Python, C, C++, LaTeX
- **Robotics & Simulation**: SAPIEN, ManiSkill, Isaac Gym, Isaac Lab, MuJoCo
- **AI Frameworks**: PyTorch, PyTorch Geometric
- **DevOps & HPC**: Git, Docker, Kubernetes, uv
- **Robots**: UFACTORY xArm6/7, Franka, Tianji, UFACTORY xArm Gripper, Ability Hand, XHand, Sharpa Wave, Allegro Hand
- **Languages**: English (TOEFL 104, fluent), Chinese (native)

MISC.

Last updated: November 2026.