

Jinzhou Li

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304 Research Drive, Durham, NC 27710

Research interests

My research focuses on enabling robots to achieve **human-level dexterity** in complex environments by integrating multisensory intelligence with advanced control strategies and machine learning.

Education

2025 – **Duke University** – Durham, NC
Ph.D. Student in Robotics
Advisor: [Prof. Xianyi, Cheng](#).

2022 – 2023 **Cornell University** – Ithaca, NY
M.Eng in Systems Engineering
Advisor: [Prof. Maha, Haji](#).

2017 – 2021 **University of Vermont** – Burlington, VT
BS in Computer Science

Research experience

2024 – 2025 **Peking University, PKU-Agibot Joint Lab**
Advisor: [Prof. Hao, Dong](#).
Tactile Dexterous Manipulation, Sim2Real, Real2Sim2Real

2022 – 2023 **Cornell University, SEA Lab & MIT, Engineering System Lab**
Advisors: [Prof. Maha, Haji](#). & [Prof. Daniel, Hasting](#).
1) System of Systems Concept for Effective Oceans to Near Space Observation
2) Hybrid Agent-Based Model and Discrete Event Simulation to Optimize AUV Fleet Operations

Honors and scholarships

2017 – 2021

Merit Scholars Award

Awarded for academic excellence; \$5,000 per semester.

Publications

Conference Paper (* denotes equal contribution):

- c6. **TwinAligner: Visual and Physical Real2Sim2Real All-in-one for Robotic Manipulation**
Hongwei Fan*, Hang Dai*, Jiyao Zhang*, **Jinzhong Li**, Qiyang Yan, Yujie Zhao, Xuanyu Lai, Hao Tang, Hao Dong
Preprint, 2025.
- c5. **ClutterDexGrasp: A System for General Closed-Loop Dexterous Grasping in Cluttered Scenes**
Zeyuan Chen*, Qiyang Yan*, Yuanpei Chen*, Jiyao Zhang, Tianhao Wu, Zihan Ding, **Jinzhong Li**, Yaodong Yang, Hao Dong.
*The Conference on Robot Learning (CoRL), 2025. **Oral ~5%***
- c4. **Adaptive Visual-Tactile Fusion with Predictive Force Attention for Dexterous Manipulation**
Jinzhong Li*, Tianhao Wu*, Jiyao Zhang, Zeyuan Chen, Haotian Jin, Mingdong Wu, Yujun Shen, Yaodong Yang, Hao Dong
*IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) (**Oral**), 2025.*
- c3. **SimLauncher: Launching Sample-Efficient Robotic Reinforcement Learning via Simulation Pre-training**
Mingdong Wu*, Lehong Wu*, Yizhuo Wu*, Weiyao Huang, Hongwei Fan, Zheyuan Hu, Haoran Geng, **Jinzhong Li**, Jiahe Ying, Long Yang, Yuanpei Chen, Hao Dong.
*IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) (**Oral**), 2025.*
- c2. **Canonical Representation and Force-Based Pretraining of 3D Dexterous Visuo-Tactile Policy Learning**
Tianhao Wu, **Jinzhong Li***, Jiyao Zhang*, Mingdong Wu, Hao Dong.
IEEE International Conference on Robotics and Automation (ICRA), 2025.

- c1. **HGIC: A Hand Gesture Based Interactive Control System for Efficient and Scalable Multi-UAV Operations**

Mengsha Hu, **Jinzhou Li**, Runxiang Jin, Chao Shi, Lei Xu, Rui Liu.

IEEE International Symposium on Robot and Human Interactive Communication (RO-MAN), 2024.

Presentations:

- p1. **HGIC: A Hand Gesture Based Interactive Control System for Efficient and Scalable Multi-UAV Operations**

Jinzhou Li, Mengsha Hu, Lei Xu, Yibei Guo, Rui Liu

IEEE International Symposium on Multi-Robot & Multi-Agent Systems (MRS), 2023.

Teaching experience

Fall 2023 **Cornell University**

Teaching Assistant, Meta CS 4782: Intro to Deep Learning

Industry experience

2024 – 2025 **Agibot Inc.** – Research Intern

Service

Reviewer

ICRA (2024, 2025)

Technical skills

Programming languages

Python, C++, Rust

Software

L^AT_EX, Git, ROS, PyTorch, Unreal Engine, IssacGym

Robot Experience

Leap Hand, Hello Robot, Franka, Aloha, Flexiv