

# Jinzhou Li

jinzhou.li@duke.edu • [kingchou007.github.io](https://kingchou007.github.io) • [Google Scholar](#)

## 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  
Incoming PhD 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

- 2025 **MIT, Multisensory Intelligence Group**  
Visuo-Tactile Manipulation.
- 2024 – 2025 **Peking University, PKU-Agibot 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

**Paper** (\* denotes equal contribution):

6. **TwinAligner: Visual and Physical Real2Sim2Real All-in-one for Robotic Manipulation**  
Hongwei Fan\*, Hang Dai\*, Jiyao Zhang\*, **Jinzhou Li**, Qiyang Yan, Yujie Zhao, Xuanyu Lai, Hao Tang, Hao Dong  
*Preprint, 2025.*
5. **ClutterDexGrasp: A System for General Closed-Loop Dexterous Grasping in Cluttered Scenes**  
Zeyuan Chen\*, Qiyang Yan\*, Yuanpei Chen\*, Jiyao Zhang, Tianhao Wu, Zihan Ding, **Jinzhou Li**, Yaodong Yang, Hao Dong.  
*The Conference on Robot Learning (CoRL), 2025.*
4. **Adaptive Visual-Tactile Fusion with Predictive Force Attention for Dexterous Manipulation**  
**Jinzhou 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.*
3. **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, **Jinzhou Li**, Jiahe Ying, Long Yang, Yuanpei Chen, Hao Dong.  
*IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS) (Oral), 2025.*
2. **Canonical Representation and Force-Based Pretraining of 3D Dexterous Visuo-Tactile Policy Learning**  
Tianhao Wu, **Jinzhou Li**\*, Jiyao Zhang\*, Mingdong Wu, Hao Dong.  
*IEEE International Conference on Robotics and Automation (ICRA), 2025.*

1. **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:**

1. **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<sup>A</sup>T<sub>E</sub>X, Git, ROS, PyTorch, Unreal Engine, IssacGym

### **Robot Experience**

Leap Hand, Hello Robot, Franka, Aloha, Flexiv