

# Jinzhou Li

jinzhou.li@duke.edu • [kingchou007.github.io](https://kingchou007.github.io) • [Google Scholar](#)  
304 Research Drive, Durham, NC 27710

## Research interests

My research focuses on robot dexterous manipulation and multimodal learning. I build systems that combine sensing, control, and learning so that robots can perform complex manipulation tasks in a more human-like way. A key part of my work is tactile and force sensing, with an emphasis on compliance, enabling policies to reason about contact and improve dexterity beyond what current purely vision-based policies can achieve.

## Education

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|----------------|---|
| 2025 – Present | <b>Duke University</b> – Durham, NC<br>Ph.D Student in Robotics<br>Advisor: <a href="#">Prof. Xianyi, Cheng</a> .     |
| 2022 – 2023    | <b>Cornell University</b> – Ithaca, NY<br>M.Eng in Systems Engineering<br>Advisor: <a href="#">Prof. Maha, Haji</a> . |
| 2017 – 2021    | <b>University of Vermont</b> – Burlington, VT<br>B.S. in Computer Science   |

## Publications

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

- c7. **OPENTOUCH: Bringing Full-Hand Touch to Real-World Interaction**  
Yuxin Ray Song\*, Jinzhou Li\*, Rao Fu\*, Devin Murphy, Kaichen Zhou, Rishi Shiv, Yaqi Li, Haoyu Xiong, Crystal Elaine Owens, Yilun Du, Yiyue Luo, Xianyi Cheng, Antonio Torralba, Wojciech Matusik, Paul Pu Liang  
*Technical Report.*  
[\[Project Page\]](#) [\[Paper\]](#)
- c6. **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  
*Under Review.*
- c5. **Hierarchical Policy: Multi-Frequency Action Chunking across Hierarchical Temporal Resolutions for Robotic Imitation Learning**  
Jiyao Zhang, Zimu Han, Junhan Wang, Xionghao Wu, Shihong Lin, Jinzhou Li, Hongwei Fan, Ruihai Wu, Dongjiang Li, Hao Dong  
*Under Review.*
- c4. **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. (Oral~5%)*  
[\[Project Page\]](#) [\[Paper\]](#)

- c3. **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), 2025.*  
[\[Project Page\]](#) [\[Paper\]](#)
- c2. **SimLauncher: Launching Sample-Efficient Robotic Reinforcement Learning via Simulation Pre-training**  
Mingdong Wu\*, Lehong Wu\*, Yizhuo Wu\*, Weiyao Huang, Hongwei Fan, Zheyuan Hu, Hao-ran Geng, **Jinzhou Li**, Jiahe Ying, Long Yang, Yuanpei Chen, Hao Dong.  
*IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2025.*  
[\[Project Page\]](#) [\[Paper\]](#)
- c1. **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.*  
[\[Project Page\]](#) [\[Paper\]](#)

## Research experience

- 2025 – Present **Robot Dexterity Lab, Duke**  
Advisor: [Prof. Xianyi, Cheng](#).  
1) Compliance Learning  
2) Contact Transfer Learning  
3) Tool use manipulation
- 2025 **Multisensory Intelligence Group, Media Lab, MIT**  
Mentor: [Dr. Kaichen, Zhou](#). & [Prof. Paul, Liang](#).  
1) Egocentric human contact in the wild [c7]  
2) Visuo-Tactile Benchmark
- 2024 – 2025 **PKU-Agibot Joint Lab, CFCS, Peking University**  
Advisor: [Prof. Hao, Dong](#).  
1) Tactile Dexterous Manipulation [c1, c3]  
2) Sim2Real/Real2Sim2Real [c4, c6]  
3) Imitation Learning Policy [c1,c3, c5]
- 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.*

## Teaching experience

- Fall 2023 **Cornell University**  
Teaching Assistant, Meta CS 4782: Intro to Deep Learning

## Industry experience

- 2024 – 2025    **Agibot Inc.** – Research Intern
- 2021        **SenseTime Inc.** – Product Intern (Edge Computing)

## Service

### **Reviewer**

ICRA (2024, 2025, 2026)

## Technical skills

### **Programming languages**

Python, C++, Rust

### **Software**

LaTeX, Git, ROS, PyTorch, Unreal Engine, IsaacGym

### **Robot Experience**

Leap Hand, Hello Robot, Franka, Aloha, Flexiv, UR5