# Hongjie Fang

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### **Education**

### Shanghai Jiao Tong University

2022/09 - present

Ph.D. Student, Wu Wenjun Honorable Class, Computer Science and Engineering

Shanghai, China

### Shanghai Jiao Tong University

2018/09 - 2022/06

Bachelor of Engineering, major in Computer Science and Engineering,

Shanghai, China

Bachelor of Economics, minor in Finance

• GPA 4.03 / 4.3, Ranking: 2 / 149.

#### **Awards**

Shanghai Outstanding Graduates	2022
85' Alumni and Yang Yuanqing Education Fund Scholarship	2021
Shanghai Scholarship	2020
Fuguang Scholarship	2018 - 2022
Zhiyuan Scholarship	2018 - 2022
National Olympics in Informatics (NOI) Bronze Medal	2017
National Olympics in Informatics in Provinces (NOIP) First Prize	2015 & 2016

#### **Publications**

- 1. AirExo: Low-Cost Exoskeletons for Learning Whole-Arm Manipulation in the Wild Hongjie Fang\*, Hao-Shu Fang\*, Yiming Wang\*, Jieji Ren, Jingjing Chen, Ruo Zhang, Weiming Wang, Cewu Lu IEEE International Conference on Robotics and Automation (ICRA), 2024.
- 2. TransCG: A Large-Scale Real-World Dataset for Transparent Object Depth Completion and A Grasping Baseline Hongjie Fang, Hao-Shu Fang, Sheng Xu, Cewu Lu IEEE Robotics and Automation Letters (RA-L), 2022; Presented at ICRA 2023.
- 3. RH20T: A Comprehensive Robotic Dataset for Learning Diverse Skills in One-Shot Hao-Shu Fang, Hongjie Fang, Zhenyu Tang, Jirong Liu, Chenxi Wang, Junbo Wang, Haoyi Zhu, Cewu Lu IEEE International Conference on Robotics and Automation (ICRA), 2024
- 4. RISE: 3D Perception Makes Real-World Robot Imitation Simple and Effective Chenxi Wang, Hongjie Fang, Hao-Shu Fang, Cewu Lu IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2024.
- 5. Open X-Embodiment: Robotic Learning Datasets and RT-X Models Open X-Embodiment Collaboration, 147 authors IEEE International Conference on Robotics and Automation (ICRA), 2024.

## **Best Conference Paper Award**

- 6. AnyGrasp: Robust and Efficient Grasp Perception in Spatial and Temporal Domains Hao-Shu Fang, Chenxi Wang, Hongjie Fang, Minghao Gou, Jirong Liu, Hengxu Yan, Wenhai Liu, Yichen Xie, Cewu Lu IEEE Transaction on Robotics (T-RO), 2023; Presented at ICRA 2024.
- 7. Flexible Handover with Real-Time Robust Dynamic Grasp Trajectory Generation Gu Zhang, Hao-Shu Fang, Hongjie Fang, Cewu Lu IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2023.
- 8. Graspness Discovery in Clutters for Fast and Accurate Grasp Detection Chenxi Wang\*, Hao-Shu Fang\*, Minghao Gou, Hongjie Fang, Jin Gao, Cewu Lu IEEE/CVF International Conference on Computer Vision (ICCV), 2021.
- 9. Target-Referenced Reactive Grasping for Dynamic Objects Jirong Liu, Ruo Zhang, Hao-Shu Fang, Minghao Gou, Hongjie Fang, Chenxi Wang, Sheng Xu, Hengxu Yan, Cewu Lu IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023.

# **Preprints**

1. Towards Effective Utilization of Mixed-Quality Demonstrations in Robotic Manipulation via Segment-Level Selection and Optimization

Jingjing Chen, **Hongjie Fang**, Hao-Shu Fang, Cewu Lu *arXiv*, 2024.

2. CAGE: Causal Attention Enables Data-Efficient Generalizable Robotic Manipulation Shangning Xia, **Hongjie Fang**, Hao-Shu Fang, Cewu Lu *arXiv*, 2024.

## **Academic Services**

Reviewer for journal *RA-L*.

Reviewer for conferences including ICRA, IROS, etc.

## **Teaching**

Teaching Assistant, Algorithm and Complexity	<i>Spring, 2022</i>
Teaching Assistant, C++ Programming Language (Honor)	Fall, 2020
Teaching Assistant, Data Structure (Honor)	Spring, 2019
Teaching Assistant, Linear Algebra (Honor)	Fall 2021 & Fall, 2022
Teaching Assistant, Mathematical Analysis (Honor)	Fall, 2020 & Fall, 2021

### **Invited Talks**

 $\bullet \ 03/2024, Echo\ AI\ Talk, USyd,\ \textit{Towards}\ \textit{Efficient}\ \textit{Robot}\ \textit{Imitation}\ \textit{Learning}\ \textit{from}\ \textit{Human}\ \textit{Demonstrations}.$