Hongjie Fang

galaxies@sjtu.edu.cn | +86 18259025398 | github.com/galaxies99 | tonyfang.net

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*

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*

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*

Academic Services

Reviewer for journal RA-L.

Reviewer for conferences including ICRA, IROS, *etc.*

Teaching

Teaching Assistant, *Algorithm and Complexity* — *Spring, 2022*

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

- 03/2024, Echo AI Talk, USyd, *Towards Efficient Robot Imitation Learning from Human Demonstrations.*