

Jiarui Li

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EDUCATION

Peking University (PKU)

Beijing, China

B.E. in Robotics Engineering

Sep 2019 (change major to Robotics in 2020) – Jul 2024

- **2023 Rank 1/19, GPA 3.7 / 4.0 (87 / 100), Last Year (2023) GPA 3.9 / 4.0 (92.6 / 100), Total Rank 2/19**
- **Language:** TOEFL 107 / 120 (28 Reading, 26 Listening, 29 Writing, 24 Speaking)
- **Relevant Curriculum:** Introduction to Machine Learning (94), Swarm Intelligence (99), Principles of Automatic Control (90), Computer Vision (91.2), Robotics Experiments (III) (93), Set Theory and Graph Theory (91), Practice of Programming in C and C++ (93), Robotics Experiments (I) (91), Introduction to Computation (A) (91), Theoretical Mechanics (91), Electromagnetism (96), Social Statistics (91)
- **Technical Skills:**
 - Programming Skills: Python, C/C++, MATLAB & Simulink, Embedded System (Arduino, STM32)
 - AI & Robotics: PyTorch, ROS, Gazebo, PyBullet, Webots, SolidWorks, Moveit!, OpenCV, Crazyflie, UR, Kinova and Franka Manipulator Programming

RESEARCH APPOINTMENTS

Computational Robotics Lab, SEAS, Harvard University

Boston, MA

Undergraduate Visiting Researcher, Advisor: [Prof. Heng Yang](#)

Jul 2023 - Feb 2024

State Key Laboratory for Cross-Media AGI (BIGAI)

Beijing, China

Research Assistant in Robotics Lab, Advisors: [Dr. Yao Su](#), [Dr. Hangxin Liu](#)

Jan 2022 - Jun 2023

HONORS & AWARDS SELECTION

- **[Best Paper Award Finalist on Mobile Manipulation](#)** from *IEEE IROS* (**top 0.5%**) 2023
- **National Scholarship** from *PKU* (**top 0.2%**, Highest Scholarship for Chinese Students) 2023
- **Pacemaker to University Merit Student** from *Peking University* 2023
- **Intern Outstanding Contribution Award** from *BIGAI* 2023
- **University Merit Student** from *Peking University* 2022
- **Schneider Scholarship** from *College of Engineering, Peking University* 2022

PUBLICATIONS (*indicates co-first authors, red indicates representative papers)

- [C3] Yao Su*, **Jiarui Li***, Ziyuan Jiao*, Meng Wang, Chi Chu, Yixin Zhu, Hangxin Liu, “Planning Sequential Aerial Manipulation for Over-actuated UAMs”, in *Proceedings of IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2023.
- [J2] - **Extended version submitted to *Transactions on Robotics (T-RO)*, under review**
- **Best Paper Award Finalist on Mobile Manipulation at IROS 2023**, Oral & Poster Present at IROS
- Also Poster Presented at Northeast Robotics Colloquium (NERC) 2023
- [C2] Meng Wang*, Yao Su*, Hang Li, **Jiarui Li**, Jixiang Liang, Hangxin Liu, “Aggregating Single-wheeled Mobile Robots for Omnidirectional Movements”, in *Proceedings of IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2023.
- [C1] Yao Su*, Chi Chu*, Meng Wang, **Jiarui Li**, Yang Liu, Yixin Zhu, Hangxin Liu, “Downwash-aware Control Allocation for Over-actuated UAV Platforms”, in *Proceedings of IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2022.
- [J1] Wanlin Li*, Meng Wang*, **Jiarui Li**, Yao Su, Devesh K. Jha, Xinyuan Qian, Kaspar Althoefer, Hangxin Liu, “ L^3 F-TOUCH: A Light-weight, Low-cost and WireLess GelSight Sensor with Extended Three-axis Force Sensing”, *IEEE Robotics and Automation Letters (RA-L)*, 2023.