

# SHUAI ZHOU

Final-year Undergraduate Student of Robotics

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## EDUCATION

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### SOUTH CHINA UNIVERSITY OF TECHNOLOGY

Bachelor of Engineering in Robotics; GPA: 3.86/4.00

Guangzhou, China

Aug 2022 — Jun 2026

### UNIVERSITY OF CALIFORNIA, BERKELEY

Exchange Student in EECS; GPA: 4.00/4.00

Berkeley, USA

Aug 2023 — Dec 2023

## EXPERIENCE

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### HKUST (GUANGZHOU), IPRN Lab

Mentor: [Wengxuan Song](#), Supervisor: Prof. [Haoang Li](#)

Guangzhou, China

Mar 2026 — Present

- **Research Topics:** Robot Foundation Model, Active Perception, Egocentric Human Data
- Building an AVP-ALOHA teleoperation system for active-perception data collection and robot foundation model.
- Physics and action understanding in VLA pretraining, and sub-task annotation of egocentric human videos.

### CARNEGIE MELLON UNIVERSITY, SAFE AI Lab

Mentor: [Yaru Niu](#), Supervisor: Prof. [Ding Zhao](#)

Pittsburgh, USA

Aug 2025 — Mar 2026

- **Research Topics:** Manipulation, Cross-Embodiment, Whole-Body Controller.
- Learning versatile humanoid manipulation policy and developing robust lower-body controller [2].

### CARNEGIE MELLON UNIVERSITY, ARCS Lab

Mentor: [Yorai Shaoul](#), [Jingtian Yan](#), Supervisor: Prof. [Jiaoyang Li](#)

Pittsburgh, USA

Apr 2025 — Mar 2026

- **Research Topics:** Learning for Planning, Multi-Robot System.
- Collaborative multi-robot non-prehensile manipulation via flow-matching model and lazy planning [1].
- Learning execution-time prediction models for closed-loop multi-robot coordination and dependency optimization [3].

### SHANGHAI JIAO TONG UNIVERSITY RAP Lab

Supervisor: Prof. [Zhongqiang Ren](#)

Shanghai, China

Apr 2024 — Apr 2025

- **Research Topics:** Heuristic Search, Multi-Robot System.
- Scalable planners for Multi-Robot Path Planning that scale to 1,000+ robots [5].
- Complete, anytime planning framework with pruning and sorting strategies that accelerated search [4].

## PUBLICATION(† equal contribution)

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### PREPRINT

- [1] **LAMP: Long-Horizon Adaptive Manipulation Planning for Multi-Robot Collaboration in Cluttered Space**  
[Shuai Zhou](#), [Yorai Shaoul](#), [Jiaoyang Li](#). Under Review, 2026. [Project]
- [2] **HTD: Learning Versatile Humanoid Manipulation with Touch Dreaming**  
[Yaru Niu](#), [Zhenlong Fang](#), [Binghong Chen](#), [Shuai Zhou](#), [Revant Krishna Senthilkumaran](#), [Hao Zhang](#), [Bingqing Chen](#), [Chen Qiu](#), [Hongtei \(Eric\) Tseng](#), [Jonathan Francis](#), [Ding Zhao](#). Under Review, 2026. [Paper] [Project] [Code] [Media]
- [3] **Bridging Planning and Execution: Multi-Agent Path Finding Under Real World Deadlines**  
[Jingtian Yan](#)†, [Shuai Zhou](#)†, [Stephen Smith](#), [Jiaoyang Li](#). Under Review, 2026 [Paper]

### PUBLISHED

- [4] **LSRP\*: Scalable and Anytime Planning for Multi-Agent Path Finding with Asynchronous Actions**  
[Shuai Zhou](#), [Shizhe Zhao](#), [Zhongqiang Ren](#). SoCS, 2025. [Paper] [Project]
- [5] **Loosely Synchronized Rule-Based Planning for Multi-Agent Path Finding with Asynchronous Actions**  
[Shuai Zhou](#), [Shizhe Zhao](#), [Zhongqiang Ren](#). AAAI, 2025. [Paper] [Project] [Code]

## SKILLS

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**Platforms:** AgileX Aloha, AgileX Piper arm, Apple Vision Pro, Unitree G1 Humanoid, Unitree Go1 Quadruped

**Simulators:** Isaacsim, MuJoCo, PyBullet

**Programming:** Python, C++, Java, HTML, MATLAB, L<sup>A</sup>T<sub>E</sub>X

## SERVICES

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**Conference Reviewer:** 2025-2026 IEEE/RSJ International Conference on Intelligent Robots and Systems(IROS)

**Journal Reviewer:** 2026 IEEE Robotics and Automation Letters(RA-L)

## HONORS

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**Merit Student of South China University of Technology**

*Top student in Robotics Engineering, Class of 2022*

Guangzhou, China

*Feb 2024*

**The Third Prize Scholarship by South China University of Technology**

*Top 10% of students, receiving 10,000 CNY*

Guangzhou, China

*Dec 2023*