CHUANYU LI

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Homepage   *Google Scholar*

EDUCATION

Bachelor of Mechanical Engineering (2021 - 2025)
Sichuan University, China. GPA : 3.12/4

RESEARCH INTEREST

My research interests focus on (1) designing novel tactile sensors, (2) tactile vision fusion for robotic manipulation, and (3) developing universal robotic data collection systems.

PUBLICATIONS

* indicates equal contribution

ViTaMIn: Learning Contact-Rich Tasks Through Portable Visuotactile Manipulation Interface
Fangchen Liu*, *Chuanyu Li**, Yihua Qin, Ankit Shaw, Jing Xu, Pieter Abbeel, Rui Chen. In submission for RSS, 2025

ManiSkill-ViTac 2025: Challenge on Manipulation Skill Learning with Vision and Tactile Sensing
Chuanyu Li, Renjun Dang, Xiang Li, Zhiyuan Wu, Jing Xu, Hamidreza Kasaei, Roberto Calandra, Nathan Lepora, Shan Luo, Hao Su, Rui Chen. arXiv:2411.12503

PROJECTS

ManiSkill-ViTac 2025: Challenge on Manipulation Skill Learning with Vision and Tactile Sensing
- **Role:** Student Organizer
- **Venue:** ICRA 2025 Workshop
- **Description:** Focused on advancing contact-rich robotic manipulation through multimodal sensing and Sim2Real transfer. Developed algorithms for high-precision tasks using vision and tactile inputs in simulation, and deployed policies on physical robots. Provided a standardized platform enabling researchers to validate policies across tactile-only, vision-tactile fusion, and sensor design tracks.

ManiSkill-ViTac: Vision-based-Tactile Manipulation Skill Learning Challenge 2024
- **Role:** Student Organizer
- **Venue:** ICRA 2024 Workshop
- **Description:** Developed the first standardized benchmarking platform for vision-based tactile manipulation skill learning in robotics. Implemented a unified tactile sensor and simulator framework to ensure fair comparison between approaches. This pioneering platform provides a shared foundation for researchers from tactile sensing and policy learning communities, facilitating advancements in manipulation skill learning with tactile feedback.

INTERNSHIP

Intern at Tsinghua University   July 2024 - Now