CHUANYU LI

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Homepage *Google Scholar* *GitHub*

EDUCATION

B.S. in Mechanical Engineering 2021 - 2025
Sichuan University, China

Visiting Student, RVSA Lab 2024 - 2025
Tsinghua University, China. Advisor: Prof. Rui Chen

RESEARCH INTEREST

My research focuses on novel tactile sensor design, tactile-vision fusion for robotic manipulation, and universal robotic data collection tools.

PUBLICATIONS

* indicates equal contribution

ViTaMIn-B: A Reliable and Efficient Visuo-Tactile Bimanual Manipulation Interface
Chuanyu Li*, Chaoyi Liu*, Daotan Wang, Shuyu Zhang, Lusong Li, Zecui Zeng, Fangchen Liu, Jing Xu, Rui Chen. Preprint, arXiv:2511.05858

ViTaMIn: Learning Contact-Rich Tasks Through Portable Visuotactile Manipulation Interface
Fangchen Liu*, ***Chuanyu Li****, Yihua Qin, Jing Xu, Pieter Abbeel, Rui Chen. Preprint, arXiv:2504.06156

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. ICRA 2025 Workshop Technical Report, 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.

EXPERIENCE

Sudo AI 2025
Intern

Lightwheel AI 2025 - 2026
Intern & Technical Consultant

BrainCo 2026 - Present
Visuo-Tactile Sensing Lead