

Siyu Ma

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Research Interests

Generalizable Robot Manipulation, Simulation-based Robot Learning, Autonomous Real World Adaptation

Education

University of California, Los Angeles <i>Ph.D. in Computer Science, advised Chenfanfu Jiang</i>	Sep 2026 – Jun 2029
University of California, San Diego <i>Ph.D. in Computer Science, advised by Hao Su and Chenfanfu Jiang</i>	Jan 2026 – Jun 2026
University of California, San Diego <i>M.S. in Computer Science</i>	Sep 2023 – Dec 2024
University of Electronic Science and Technology of China <i>B.Eng. in Software Engineering</i>	Sep 2019 – Jun 2023

Publications

TacCoRL: Integrating Tactile Feedback into VLA via Simulation

In Submission; RSS 2026 Workshop on Tactile Sensing for Robotic Foundation Models

Siyu Ma*, Yuqi Liang*, Chang Yu*, Yunuo Chen, Hao Su, Yixin Zhu, Yin Yang, Chenfanfu Jiang

Sparse2Act: Learning Action-Aligned Sparse 3D Representations for Cross-Domain Robot Manipulation

In Submission

Yu Guo*, Chang Yu*, **Siyu Ma***, Yunuo Chen, Yin Yang, Ying Nian Wu, Chenfanfu Jiang

Right-Side-Out: Learning Zero-Shot Sim-to-Real Garment Reversal

IEEE International Conference on Robotics and Automation (ICRA), 2026

Chang Yu*, **Siyu Ma***, Wenxin Du, Zeshun Zong, Han Xue, Wendi Chen, Cewu Lu, Yin Yang, Xuchen Han, Joseph Masterjohn, Alejandro Castro, Chenfanfu Jiang

GRIP: A General Robotic Incremental Potential Contact Simulation Dataset for Unified Deformable-Rigid Coupled Grasping

IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2025

Siyu Ma*, Wenxin Du*, Chang Yu*, Ying Jiang*, Zeshun Zong, Tianyi Xie, Yunuo Chen, Yin Yang, Xuchen Han, Chenfanfu Jiang

Embedded IPC: Fast and Intersection-free Simulation in Reduced Subspace for Robot Manipulation

IEEE International Conference on Robotics and Automation (ICRA), 2025

Wenxin Du*, Chang Yu*, **Siyu Ma**, Ying Jiang, Zeshun Zong, Yin Yang, Joseph Masterjohn, Alejandro Castro, Xuchen Han, Chenfanfu Jiang

Experience

LightSpeed Studios, Tencent America <i>Research Intern, advised by Kui Wu</i>	6 2025 – 8 2025 Los Angeles, USA
CoRe Lab at Peking University <i>Visiting Student, advised by Yixin Zhu</i>	Oct 2025 – Dec 2025 Beijing, China
MVIG Lab at Shanghai Jiao Tong University <i>Visiting Student, advised by Cewu Lu</i>	Jun 2025 – Sep 2025 Shanghai, China
Artificial Intelligence & Visual Computing Lab at UCLA <i>Visiting Student, advised by Chenfanfu Jiang</i>	Jan 2024 – Jun 2025 Los Angeles, USA

Skills

- **Robotic Hardware:** ALOHA/Piper, UR5e, Franka, LeapHand, FlexiTac (tactile sensing)
- **Simulation Platforms:** Isaac Gym, Isaac Sim, Isaac Lab, MuJoCo, PhysX
- **Robot Software & Systems:** ROS1, ROS2, MoveIt, URDF, Data Collection & Teleoperation Pipelines