

Siyu Ma

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Research Interests

Robot Learning, Contact-rich Manipulation, Sim-to-Real Transfer.

Education

University of California, San Diego <i>Ph.D. in Computer Science, advised by Hao Su and Chenfanfu Jiang</i>	Jan 2026 – Jun 2031
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

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

In Submission

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

Singing Mouth Shape and Face Animation Generation Method and Device and Electronic Equipment

Chinese Patent, CN114972592A

Xueyuan Yin, Qinyin Xiao, Xinzhong Liu, Hongyu Chen, **Siyu Ma**

Experience

CoRe Lab at Peking University Visiting Student, advised by Yixin Zhu	Oct 2025 – Present Beijing, China
MVIG Lab at Shanghai Jiao Tong University Visiting Student, advised by Cewu Lu	Jun 2025 – Sep 2025 Shanghai, China
Artificial Intelligence & Visual Computing Lab at UCLA Research Assistant, advised by Chenfanfu Jiang	Jan 2024 – Jun 2025 Los Angeles, USA
XiaoHi Studio Machine Learning Intern	Mar 2022 – Jun 2022 Chengdu, China

Scholarship & Awards

- IROS Travel Grant (2025)
- Honor Graduate, University of Electronic Science and Technology of China (2023)
- Outstanding Undergraduate Scholarship (2020-2023)

Skills

Programming Languages: Python, C, C++.

Deep Learning Libraries: PyTorch, Tensorflow.

Robotics: Isaac Gym/Lab, MuJoCo, PyBullet.