

# Siyu Ma

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## Research Interests

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

## Education

<b>University of California, San Diego</b>	Jan 2026 – Jun 2031
<i>Ph.D. in Computer Science, advised by Hao Su and Chenfanfu Jiang</i>	
<b>University of California, San Diego</b>	Sep 2023 – Dec 2024
<i>M.S. in Computer Science</i>	
<b>University of Electronic Science and Technology of China</b>	Sep 2019 – Jun 2023
<i>B.Eng. in Software Engineering</i>	

## 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, Xinzong Liu, Hongyu Chen, **Siyu Ma**

## Experience

<b>CoRe Lab at Peking University</b>	Oct 2025 – Dec 2025
Visiting Student, advised by Yixin Zhu	Beijing, China
<b>MVIG Lab at Shanghai Jiao Tong University</b>	Jun 2025 – Sep 2025
Visiting Student, advised by Cewu Lu	Shanghai, China
<b>Artificial Intelligence &amp; Visual Computing Lab at UCLA</b>	Jan 2024 – Jun 2025
Research Assistant, advised by Chenfanfu Jiang	Los Angeles, USA
<b>XiaoHi Studio</b>	Mar 2022 – Jun 2022
Machine Learning Intern	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/Sim/Lab, MuJoCo, PyBullet, ROS1/2.