

# XIAOMENG XU

<https://xxm19.github.io/> | xuxm@stanford.edu

## EDUCATION

---

<b>Stanford University</b>	09/2023-now
<i>PhD Candidate in Electrical Engineering, Advisor: Shuran Song</i>	
<b>Stanford University</b>	09/2023-06/2025
<i>Masters in Electrical Engineering</i>	
<b>Tsinghua University</b>	08/2019-06/2023
<i>Bachelor of Engineering in Automation, Bachelor of Arts in Product Design</i>	
GPA: 3.96/4.0	

## PUBLICATIONS

- 
1. **Xiaomeng Xu\***, Yifan Hou\*, Zeyi Liu, Shuran Song, *Compliant Residual DAgger: Improving Real-World Contact-Rich Manipulation with Human Corrections*. [Paper]
  2. Haoyu Xiong, **Xiaomeng Xu**, Jimmy Wu, Yifan Hou, Jeannette Bohg, Shuran Song, *Vision in Action: Learning Active Perception from Human Demonstrations*. Conference on Robot Learning (CoRL 2025). [Paper]
  3. **Xiaomeng Xu**, Dominik Bauer, Shuran Song, *RoboPanoptes: The All-Seeing Robot with Whole-body Dexterity*. Robotics: Science and Systems (RSS 2025). [Paper]
  4. **Xiaomeng Xu**, Huy Ha, Shuran Song, *Dynamics-Guided Diffusion Model for Sensor-less Robot Manipulator Design*. Conference on Robot Learning (CoRL 2024), Best Machine Learning Paper at the Morphology-Aware Policy and Design Learning Workshop (CoRL 2024). [Paper]
  5. **Xiaomeng Xu\***, Yanchao Yang\*, Kaichun Mo, Boxiao Pan, Li Yi, Leonidas Guibas, *JacobiNeRF: NeRF Shaping with Mutual Information Gradients*. Conference on Computer Vision and Pattern Recognition (CVPR 2023). [Paper]
  6. Yun Liu\*, **Xiaomeng Xu\***, Weihang Chen, Haocheng Yuan, He Wang, Jing Xu, Rui Chen, Li Yi, *Enhancing Generalizable 6D Pose Tracking of an In-Hand Object with Tactile Sensing*. Robotics and Automation Letters (RAL 2023), IEEE International Conference on Robotics and Automation (ICRA 2024). [Paper]
  7. Xueyi Liu, **Xiaomeng Xu**, Anyi Rao, Chuang Gan, Li Yi, *AutoGPart: Intermediate Supervision Search for Generalizable 3D Part Segmentation*. Conference on Computer Vision and Pattern Recognition (CVPR 2022). [Paper]
  8. Guanhong Liu, Tianyu Yu, Zhihao Yao, Haiqing Xu, Yunyi Zhang, Xuhai Xu, **Xiaomeng Xu**, Mingyue Gao, Qirui Sun, Tingliang Zhang, Haipeng Mi, *ViviPaint: Creating Dynamic Painting with a Thermochromic Toolkit*. Multimodal Technologies and Interaction (MTI 2022). [Paper]

\* authors with equal contribution

## INTERNSHIP EXPERIENCE

---

<b>Large Behavior Models Team @ Toyota Research Institute</b>	06/2025-09/2025
<i>Research Intern, Mentor: Eric Cousineau</i>	<i>Cambridge, MA</i>

- Scaling Bimanual Mobile Manipulation with Egocentric Human Demonstrations

## Stanford Geometric Computing Lab

Research Intern, Advisor: Prof. Leonidas Guibas

06/2022-08/2022

Stanford, CA

- [Chinese Undergraduate Visiting Research Program \(UGVR\)](#).
- Shaping a NeRF to encode mutual correlations of a scene via aligning Jacobians.

## AWARDS

---

<a href="#">Stanford Interdisciplinary Graduate Fellowship</a> (Awarded to outstanding doctoral students engaged in interdisciplinary research at Stanford University)	05/2025-now
Best Machine Learning Paper at the Morphology-Aware Policy and Design Learning Workshop (Conference on Robot Learning 2024)	11/2024
Conference on Computer Vision and Pattern Recognition (CVPR 2023) Travel Grant	06/2023
Outstanding Graduate (Awarded to top 2% graduates at Tsinghua University)	06/2023
Comprehensive Excellence Award (Scholarship awarded by Tsinghua University, top 5%)	10/2022
National Scholarship (Highest scholarship awarded by Chinese Government, top 0.1%)	10/2021
129 Scholarship (Highest scholarship for sophomores at Tsinghua University, top 1%)	10/2020

## TALKS

---

**Embodiment-Aware Robot Learning** - Co-designing Robot Morphology, Sensing, and Control @ Northeastern University, hosted by Prof. [Robert Platt](#) 08/2025

## SERVICES

---

Teaching assistant of EE/CS227: Robot Perception

Organizer of RSS 2025 1st Workshop on Robot Hardware-Aware Intelligence

Reviewer of RSS, CoRL, T-RO, RA-L, ICRA, IROS, Neurips, ICLR, ICML, CVPR, AAAI

## TECHNICAL SKILLS

---

<b>Computer Languages</b>	Python, C/C++, MATLAB, Verilog/VHDL
<b>Software</b>	SolidWorks, AutoCAD, Rhino, Qt Creator, Multisim, Quartus
<b>Hardware</b>	3D Printing, Microcontroller, mechanical design, soldering, woodcraft
<b>Tools</b>	PyTorch, ROS, MuJoCo, IsaacGym