XIAOMENG XU

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EDUCATION

Stanford University   09/2023-now
PhD Student in Electrical Engineering

Stanford University   09/2023-06/2025
Masters in Electrical Engineering

Tsinghua University   08/2019-06/2023
Bachelor of Engineering in Automation, Bachelor of Arts in Product Design
GPA: 3.96/4.0

PUBLICATIONS

1. Haoyu Xiong, **Xiaomeng Xu**, Jimmy Wu, Yifan Hou, Jeannette Bohg, Shuran Song, *Vision in Action: Learning Active Perception from Human Demonstrations.* [Paper]

2. **Xiaomeng Xu**, Dominik Bauer, Shuran Song, *RoboPanoptes: The All-Seeing Robot with Whole-body Dexterity.* Robotics: Science and Systems (RSS 2025). [Paper]

3. **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]

4. **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]

5. 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]

6. 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]

7. 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

AWARDS

Stanford Interdisciplinary Graduate Fellowship (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
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

SERVICES

Teaching assistant of EE/CS227: Robot Perception

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

Reviewer of RSS, CoRL, RAL, ICRA, IROS, ICLR, Neurips, ICML, CVPR

TECHNICAL SKILLS

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