XIAOMENG XU

https://xxm19.github.io/

xuxm@stanford.edu

EDUCATION

Stanford University   09/2023-now
PhD Student in Electrical Engineering
GPA: 4.021/4.0

Tsinghua University   08/2019-06/2023
Bachelor of Engineering in Automation, Bachelor of Arts in Product Design
GPA: 3.96/4.0, **Rank:** 1/21

PUBLICATIONS

1. **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]

2. **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]

3. 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]

4. 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]

5. 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

Outstanding Graduate (Awarded to top 2% graduates)	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 in Tsinghua University, top 1%)	10/2020

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