Mutian Xu (Mino),   Ph.D. Candidate

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🌐 https://mutianxu.github.io/

Education

2021.08 – now
Chinese University of Hong Kong (Shenzhen), China
Ph.D. Student
– Supervisor: *Prof. Xiaoguang Han*
– Research Area: *Computer Vision, Deep Learning*

2018.09 – 2020.03
University of California, Irvine, USA
M.Sc. in Computer Engineering (GPA: 3.592/4.0)

2014.08 – 2018.06
Xidian University, China
B.Eng. in Radio Wave Propagation and Antenna (GPA: 3.56/4.0)

Experience

2020.06 – 2021.02
CVMI Lab, The University of Hong Kong
Research Assistant
– Advisor: *Prof. Xiaojuan Qi*
– Topic: *3D Point Cloud Convolution*

2019.07 – 2019.11
Multimedia Lab, Shenzhen Institutes of Advanced Technology
Visiting Student
– Advisor: *Prof. Yu Qiao and Dr. Zhipeng Zhou*
– Topic: *3D Object Point Cloud Classification and Segmentation*

2019.04 – 2019.06
University Of California, Irvine
Master Individual Project
– Advisor: *Prof. Charless Fowlkes*
– Topic: *3D Object Reconstrution Based on Structured Light*

Publications *(* denotes equal contribution, † indicates project lead)*

Conference Proceedings

1. Qiu, L., Chen, G., Gu, X., Zuo, Q., **Xu, M.**, Wu, Y., … Han, X. (2024). RichDreamer: A Generalizable Normal-Depth Diffusion Model for Detail Richness in Text-to-3D. In *CVPR 2024*, ***Highlight (2.8%)***.

2. Qiu, L., Chen, G., Zhou, J., **Xu, M.**, Wang, J., & Han, X. (2023). REC-MV: REconstructing 3D Dynamic Cloth from Monucular Videos. In *CVPR 2023*.

3. Xu, M. *., **Xu, M. ***, He, T., Ouyang, W., Wang, Y., Han, X., & Qiao, Y. (2023). MM-3DScene: 3D Scene Understanding by Customizing Masked Modeling with Informative-Preserved Reconstruction and Self-Distilled Consistency. In *CVPR 2023*.

4. Yu, X., **Xu, M.** †, Zhang, Y., Liu, H., Ye, C., Han, X., & *et al.*. (2023). MVImgNet: A Large-scale Dataset of Multi-view Images. In *CVPR 2023*.

5. **Xu, M. ***, Chen, P. *., Liu, H., & Han, X. (2022). TO-Scene: A Large-scale Dataset for Understanding 3D Tabletop Scenes. In *ECCV 2022*, ***Oral Presentation (2.7%)***.

6. **Xu, M. ***, Ding, R. *., Zhao, H., & Qi, X. (2021). PAConv: Position Adaptive Convolution with Dynamic Kernel Assembling on Point Clouds. In *CVPR 2021*.

7   **Xu, M. ***, Zhang, J. *., Zhou, Z., Xu, M., Qi, X., & Qiao, Y. (2021). Learning Geometry-Disentangled Representation for Complementary Understanding of 3D Object Point Cloud. In *AAAI 2021*.

Professional Services

Journal Reviewer	TIP, IJCV, TVCG, NEUCOM, TMM, MVAP
Conference Reviewer	CVPR 23/24, ICCV 21/23, ECCV 24, ICLR 24, ICML 24, NeurIPS 23, IJCAI 24, WACV 24

Certificate

2023	**Top Reviewer, NeurIPS 2023**
	Outstanding Reviewer, CVPR 2023
2022	Outstanding Teaching Assistant Award of CUHKSZ
2017	TOFEL Test, 104/120
	GRE Test, 325/340
	Second-class school-level scholarship
2016	Third-class school-level scholarship

Talks

2024	*"Why Do I Need Papers?"*, VALSE Webinar 2024
2023	Outstanding Student Forum of VALSE 2023
	Outstanding Student Forum of China 3DV 2023
2022	Youth PhD Talk - ECCV 2022, invited by AI-TIME

Teaching

2021-22	CSC1001: Introduction to Computer Science: Programming Methodology
	CSC1002: Computational Laboratory
2022-23	CSC3002: Introduction to Computer Science: Programming Paradigms

Previous Mentorship

Pei Chen, M.Phil. at CUHKSZ, now at Ant Group.

Miscellaneous

3rd Place in the 31st School Singer Contest, Xidian University.
Piano Professional Certificate Level 10.