

Mutian Xu (Mino), Ph.D. Student

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🌐 <https://mutianxu.github.io/>

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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 Reconstruction Based on Structured Light

Publications (*denotes equal contribution)



Conference Proceedings

- 1 Qiu, L. *, Chen, G. *, Zhou, J., **Xu, M.**, Wang, J., & Han, X. (2023). REC-MV: REconstructing 3D Dynamic Cloth from Monocular Videos. In *CVPR 2023*.
- 2 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*.
- 3 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*.
- 4 **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**.
- 5 **Xu, M.**, Ding, R., Zhao, H., & Qi, X. (2021). PAConv: Position Adaptive Convolution with Dynamic Kernel Assembling on Point Clouds. In *CVPR 2021*.
- 6 **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  IJCV, TVCG, NEUCOM, TMM, MVAP
Conference Reviewer  CVPR, ICCV, AAAI






Technical Skills

Languages  Python, CUDA, C++
Tools  Pytorch, Numpy, Pycharm, Jupyter, Linux, Matlab, MeshLab

Teaching

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

Certificate

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

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.