

# Mutian Xu (Mino), Ph.D. Candidate

✉ mutianxu@link.cuhk.edu.cn

🌐 <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 Reconstruction 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*.
- 2 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*.
- 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*.
- 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

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- 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

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- 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

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- 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

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

## Previous Mentorship

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

## Miscellaneous

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