

# Xiang Xu, Ph.D.

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🌐 <https://xiangxu-0103.github.io>



## Employment History

2021 – 2023    📌 **Algorithm engineer**, Leapmotor Technologies Co. Ltd.

## Education

2023 – 2027    📌 **Ph.D.** in Computer Science and Technology  
Nanjing University of Aeronautics and Astronautics  
Advisor: Prof. Qingshan Liu

2018 – 2021    📌 **M.S.** in Control Science and Engineering  
Nanjing University of Information Science and Technology  
Advisor: Prof. Qingshan Liu

2014 – 2018    📌 **B.S.** in Electrical Engineering and Automation  
Nanjing University of Information Science and Technology

## Research Publications

### Journal Articles

- 1 L. Kong, **X. Xu**, J. Cen, *et al.*, “Calib3d: Calibrating model preferences for reliable 3d scene understanding,” *arXiv preprint arXiv:2403.17010*, 2024.
- 2 L. Kong, **X. Xu**, J. Ren, *et al.*, “Multi-modal data-efficient 3d scene understanding for autonomous driving,” *arXiv preprint arXiv:2405.05258*, 2024.
- 3 J. Sun, **X. Xu**, L. Kong, *et al.*, “An empirical study of training state-of-the-art lidar segmentation models,” *arXiv preprint arXiv:2405.14870*, 2024.
- 4 **X. Xu**, L. Kong, H. Shuai, and Q. Liu, “Frnet: Frustum-range networks for scalable lidar segmentation,” *arXiv preprint arXiv:2312.04484*, 2023.
- 5 L. Zhu, S. Wang, Z. Zhao, **X. Xu**, and Q. Liu, “Ced-net: Contextual encoder–decoder network for 3d face reconstruction,” *Multimedia Systems*, vol. 28, no. 5, pp. 1713–1722, 2022.
- 6 H. Shuai, **X. Xu**, and Q. Liu, “Backward attentive fusing network with local aggregation classifier for 3d point cloud semantic segmentation,” *IEEE Transactions on Image Processing*, vol. 30, pp. 4973–4984, 2021.


### Conference Proceedings

- 1 H. Shuai, **X. Xu**, and Q. Liu, “Waterfall-net: Waterfall feature aggregation for point cloud semantic segmentation,” in *Chinese Conference on Pattern Recognition and Computer Vision*, 2022, pp. 28–40.
- 2 **X. Xu**, G. Huang, L. Hu, and Y. Wang, “Semantic-aware object detection for 3d point cloud,” in *International Conference on Optics and Machine Vision*, vol. 12173, 2022, pp. 259–265.



## Miscellaneous Experience

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### Research Projects

- 2023        **MMDetection3D**: OpenMMLab next-general platform for general 3D object detection  
Work closely with Wenwei Zhang and Lingdong Kong.

### Selected Honors

- 2018        **Outstanding Freshman Scholarship**, Nanjing University of Information Science and Technology.
- 2016        **The First Prize of National Undergraduate Electronics Design Contest** in Jiangsu Division.