

# Lihe Ding

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## Education

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- Ph.D. Multimedia Lab**, The Chinese University of Hong Kong 2023 – present  
Supervisor: Prof. Tianfan Xue
- M.S. Optical Imaging Detection and Recognition Laboratory**, Beijing Institute of Technology 2020 – 2023  
Supervisor: Prof. Jianan Li
- B.S. Optoelectronic information science and Engineering**, Beijing Institute of Technology 2016 – 2020  
GPA: 90.2/100, Rank: 8/161

## Experience

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- SenseTime, Metaverse Video R&D** *Research intern* May 2023 – September 2023
- Text-to-3D Generation using both 2D and 3D Foundation Models.
  - Supervised by Prof. Tianfan Xue & Dr. Zhanpeng Huang
- Tsinghua University, 3DVICI Lab** *Research Assistant* May 2022 – April 2023
- Unsupervised single view 3D reconstruction with NeRF, 3D Diffusion Model.
  - Supervised by Prof. Li Yi
- Qcraft, R&D Perception** *Research Intern* June 2021 – May 2022
- 3D detection on Point Clouds

## Selected Publications

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- Text-to-3D Generation with Bidirectional Diffusion using both 2D and 3D priors (**CVPR24**)  
**Lihe Ding**, Shaocong Dong, Zhanpeng Huang, Zibin Wang, Yiyuan Zhang, Kaixiong Gong, Dan Xu, Tianfan Xue.
- Interactive3D : Create What You Want by Interactive 3D Generation (**CVPR24**)  
Shaocong Dong, **Lihe Ding**, Zhanpeng Huang, Zibin Wang, Tianfan Xue, Dan Xu.
- FH-Net: A Fast Hierarchical Network for Scene Flow Estimation on Real-world Point Clouds (**ECCV22, Oral**)  
**Lihe Ding**, Shaocong Dong, Tingfa Xu, Xinli Xu, Jie Wang, Jianan Li.
- CAGroup3D: Class-Aware Grouping for 3D Object Detection on Point Clouds (**NeurIPS22**)  
Haiyang Wang\*, **Lihe Ding\***, Shaocong Dong, Shaoshuai Shi, Aoxue Li, Jianan Li, Zhenguo Li, Liwei Wang.
- MsSVT: Mixed-scale Sparse Voxel Transformer for 3D Object Detection on Point Clouds (**NeurIPS22**)  
Shaocong Dong\*, **Lihe Ding\***, Haiyang Wang, Tingfa Xu, Xinli Xu, Jie Wang, Ziyang Bian, Ying Wang, Jianan Li.
- MsSVT++: Mixed-Scale Sparse Voxel Transformer with Center Voting for 3D Object Detection (**TPAMI**)  
Jianan Li, Shaocong Dong, **Lihe Ding**, Tingfa Xu.
- Sample-adaptive Augmentation for Point Cloud Recognition Against Real-world Corruptions (**ICCV23**)  
Jie Wang, **Lihe Ding**, Tingfa Xu, Shaocong Dong, Xinli Xu, Peifu Liu, Jianan Li.

## Awards

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- Xu Teli Scholarship** President Scholarship of Beijing Institute of Technology 2020
- First prize of National Undergraduate optoelectronic Design Competition** 2018

## Teaching Assistant

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- [IERG-4160] Image and Video Processing (Lecturer: Prof. Tianfan Xue)
- [IERG-2051] Signals and Systems (Lecturer: Prof. LOK Tat Ming)

## Service

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Reviewer: ICLR25, ECCV24, CVPR24, ICML24, ICLR24, NeurIPS23, ICCV23, CVPR23, WACV23