

Lihe Ding

dean.dinglihe@outlook.com · [Homepage](#)

The Chinese University of Hong Kong, Hong Kong



EXPERIENCE

- **Research Intern in SenseTime, Metaverse Video R&D**
Text-to-3D Generation using both 2D and 3D Foundation Models. (Supervised by Prof. Tianfan Xue & Dr. Zhanpeng Huang)
May 2023 to September 2023
- **Research Assistant in 3DVICI Lab at Tsinghua University**
Unsupervised single view 3D reconstruction with NeRF, 3D Diffusion Model. (Supervised by Prof. Li Yi)
May 2022 to April 2023
- **Internship in Qcraft (self-driving startup)**
3D detection on Point Clouds (RD Perception).
June 2021 to May 2022
- **Summer Exchange in MIT**
Complete the on-campus course of Machine Learning and Artificial Intelligence (MIT EECS).
July 2019 to August 2019

EDUCATION

- **Ph.D. Multimedia Lab**
The Chinese University of Hong Kong, supervised by Prof. Tianfan Xue
August 2023 to Now
- **M.S. Optical Imaging Detection and Recognition Laboratory**
Beijing Institute of Technology
September 2020 to July 2023
- **B.S. Optoelectronic information science and Engineering, GPA: 90.2/100, Ranking: 8/161**
Beijing Institute of Technology
August 2016 to July 2020

Research Interests

3D Generation, Diffusion Models, NeRF, Point Clouds

PUBLICATIONS

- **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, 2.7 %)**
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.*
- **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 & RECOGNITION

- **Xu Teli Scholarship**
The highest scholarship of BIT (President Scholarship).
2020
- **First prize of National Undergraduate optoelectronic Design Competition**
2018