

# Lihe Ding

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The Chinese University of Hong Kong, Hong Kong



## EXPERIENCE

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- **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

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- **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

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3D Generation, Diffusion Models, NeRF, Point Clouds

## PUBLICATIONS

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- **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.

## PROJECTS

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- **3D detection for autonomous vehicles**

I establish the whole 3D object detection framework which has been running safely and efficiently on the autonomous bus of Qcraft

achieve 92.6 mAP on qcraft dataset and 78.5 mAP on Waymo (L1)

## AWARDS & RECOGNITION

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- **Xu Teli Scholarship**

The highest scholarship of BIT (President Scholarship). 2020

- **First prize of National Undergraduate optoelectronic Design Competition**

2018