Lihe Ding

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Education

Ph.D. MMLab, 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

Galbot, DexWAM *Research intern* **May 2026 – present**

- World Action Model pretrain.

Kling GenAI, Kuaishou *Research intern* **May 2025 – April 2026**

- Native 4D World Model and representation.

SenseTime, Metaverse Video R&D *Research intern* **May 2023 – Sept 2023**

- Text-to-3D Generation using both 2D and 3D Foundation Models.

Selected Publications

- FullPart: Generating each 3D Part at Full Resolution (**ICLR26)**
  Lihe Ding*, Shaocong Dong*, Yaokun Li, Chenjian Gao, Xiao Chen, Rui Han, Yihao Kuang, Hong Zhang, Bo Huang, Zhanpeng Huang, Zibin Wang, Dan Xu, Tianfan Xue.
- Native Spatio-temporal 4D Variational AutoEncoder (**ICML26)**
  Lihe Ding, Wecai Ye, Shaocong Dong, Xintao Wang, Pengfei Wan, Kun Gai, Tianfan Xue.
- HOI-World: Generative World Model for Hand-Object Interaction (**under review)**
  Lihe Ding*, Shaocong Dong*, Feiyu Yao, Chenxiao Yang, Li Yi.
- From One to More: Contextual Part Latents for 3D Generation (**ICCV25)**
  Shaocong Dong*, **Lihe Ding***, Xiao Chen, Yaokun Li, Yuxin Wang, Yucheng Wang, Qi Wang, Jaehyeok Kim, Chenjian Gao, Zhanpeng Huang, Zibin Wang, Tianfan Xue, Dan Xu.
- From Gallery to Wrist: Realistic 3D Bracelet Insertion in Videos (**ICCV25)**
  Chenjian Gao, **Lihe Ding**, Xin Cai, Zhanpeng Huang, Zibin Wang, Tianfan Xue.
- 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.

Awards

Xu Teli Scholarship President Scholarship of Beijing Institute of Technology **2020**

First prize of National Undergraduate optoelectronic Design Competition **2018**

Service

Reviewer: SIGGRAPH ASIA26, ICML26, ICLR25, ECCV24, CVPR24, ICML24, NeurIPS23, ICCV23, CVPR23