Xinhang Liu

xinhangliu.com

xliufe@connect.ust.hk

G Google Scholar

Education

The Hong Kong University of Science and Technology Ph.D. in Computer Science and Engineering, Advisors: Chi-Keung Tang and Yu-Wing Tai	Sep. 2022 - Now
ShanghaiTech University B.Eng. in Computer Science and Technology, Advisors: Jingyi Yu and Lan Xu	Sep. 2018 - Jun. 2022
Carnegie Mellon University Robotics Institute Summer Scholar, Hosts: Sebastian Scherer and Huai Yu	Jun. 2021 - Aug. 2021
Professional Experience	
Mitsubishi Electric Research Laboratories Research Intern, Hosts: Moitreya Chatterjee, Pedro Miraldo, and Suhas Lohit	Sep. 2025 - Dec. 2025
rescarcii intern, riosis, monreva chatteree, rearo miratao, ana banas bonit	
ByteDance Seed	Feb. 2025 - Sep. 2025
	Feb. 2025 - Sep. 2025
ByteDance Seed	Feb. 2025 - Sep. 2025 Jun. 2023 - Sep. 2023

Selected Publications

- Xinhang Liu, Yuxi Xiao, Donny Y. Chen, Jiashi Feng, Yu-Wing Tai, Chi-Keung Tang, Bingyi Kang, "Trace Anything: Representing Any Video in 4D via Trajectory Fields." (Preprint)
- Jiakai Zhang, Shouchen Zhou, Haizhao Dai, **Xinhang Liu**, Peihao Wang, Zhiwen Fan, Yuan Pei, Jingyi Yu, "CryoFastAR: Fast Cryo-EM Ab Initio Reconstruction Made Easy." (ICCV 2025)
- Qi Wu, Yubo Zhao, Yifan Wang, **Xinhang Liu**, Yu-Wing Tai, Chi-Keung Tang. "Motion-Agent: A Conversational Framework for Human Motion Generation with LLMs." (ICLR 2025)
- Xinhang Liu, Yu-Wing Tai, Chi-Keung Tang. "ChatCam: Empowering Camera Control through Conversational AI." (NeurIPS 2024)
- Xinhang Liu, Jiaben Chen, Shiu-hong Kao, Yu-Wing Tai, Chi-Keung Tang. "Deceptive-NeRF/3DGS: Diffusion-Generated Pseudo-Observations for High-Quality Sparse-View Reconstruction." (ECCV 2024)
- Xinhang Liu, Yan Zeng, Yifan Qin, Hao Li, Jiakai Zhang, Lan Xu, Jingyi Yu. "CryoFormer: Continuous Heterogeneous Cryo-EM Reconstruction using Transformer-based Neural Representations." (ECCV'24 NFBCC Workshop Highlight)
- Xinhang Liu, Yu-Wing Tai, Chi-Keung Tang, Pedro Miraldo, Suhas Lohit, Moitreya Chatterjee. "Gear-NeRF: Free-Viewpoint Rendering and Tracking with Motion-aware Spatio-Temporal Sampling." (CVPR 2024 Highlight, 2.8% of 11532)
- Xinhang Liu, Jiaben Chen, Huai Yu, Yu-Wing Tai, Chi-Keung Tang. "Unsupervised Multi-View Object Segmentation Using Radiance Field Propagation." (NeurIPS 2022)
- Liao Wang, Jiakai Zhang, **Xinhang Liu**, Fuqiang Zhao, Yanshun Zhang, Yingliang Zhang, Minye Wu, Lan Xu, Jingyi Yu. "Fourier PlenOctrees for Dynamic Radiance Field Rendering in Real-time." (CVPR 2022)
- Jiakai Zhang, **Xinhang Liu**, Xinyi Ye, Fuqiang Zhao, Yanshun Zhang, Minye Wu, Yingliang Zhang, Lan Xu, Jingyi Yu. "Editable Free-Viewpoint Video using a Layered Neural Representation." (SIGGRAPH 2021)

Teaching & Service

Reviewer: CVPR, ICCV, ECCV, NeurIPS, ICLR, and ICML.

Teaching assistant: COMP4411 Computer Graphics (Fall, 2024), COMP2611 Computer Organization (Spring, 2024), COMP5421 Computer Vision (Spring, 2023)