Linning Xu

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https://eveneveno.github.io/lnxu/

Education

The Chinese University of Hong Kong, Hong Kong

2020 - 2024 (expected)

Ph.D., Information Engineering, Multimedia Lab

Topics: Scene-scale Neural Rendering, Urban Modeling, Virtual Reality, Video Understanding and Creation

The Chinese University of Hong Kong, Shenzhen, Shenzhen, China

2016-2020

Bachelor of Science in Statistics, GPA: 3.962/4.00

Publications

Scaffold-GS: Structured 3D Gaussians for View-Adaptive Rendering (CVPR'2024)

Tao Lu, Mulin Yu, **Linning Xu**, Yuanbo Xiangli, Limin Wang, Dahua Lin, Bo Dai

VR-NeRF: High-Fidelity Virtualized Walkable Spaces (SIGGRAPH ASIA'2023)

Linning Xu, Vasu Agrawal, William Laney, Tony Garcia, Aayush Bansal, Changil Kim, Samuel Rota Bulò, Lorenzo Porzi, Peter Kontschieder, Aljaž Božič, Dahua Lin, Michael Zollhoefer, Christian Richardt

MatrixCity: A Large-scale City Dataset for City-scale Neural Rendering and Beyond (ICCV'2023)

Yixuan Li*, Lihan Jiang*, **Linning Xu**, Yuanbo Xiangli, Zhenzhi Wang, Dahua Lin, Bo Dai

AssetField: Assets Mining and Reconfiguration in Ground Feature Plane Representation (ICCV'2023)

Yuanbo Xiangli*, **Linning Xu***, Xingang Pan, Nanxuan Zhao, Bo Dai, and Dahua Lin

Grid-quided Neural Radiance Fields for Large Urban Scenes (CVPR'2023)

Linning Xu*, Yuanbo Xiangli*, Sida Peng, Xingang Pan, Nanxuan Zhao, Christian Theobalt, Bo Dai, and Dahua Lin

OmniCity: Omnipotent city understanding with multi-level and multi-view images (CVPR'2023)

Weijia Li, Yawen Lai, **Linning Xu,** Yuanbo Xiangli, Jinhua Yu, Conghui He, Guisong Xia, Dahua Lin

Dynamic Storyboard Generation in an Engine-based Virtual Environment for Video Production (SIGGRAPH'2023 Poster)

Anyi Rao, Xuekun Jiang, Yuwei Guo, Linning Xu, Lei Yang, Libiao Jin, Dahua Lin, and Bo Dai

Shoot360: Normal View Video Creation from City Panorama Footage (SIGGRAPH'2022)

Anyi Rao, Linning Xu, Dahua Lin

BungeeNeRF: Progressive Neural Radiance Field for Multi-scale Scene Rendering (ECCV'2022)

Yuanbo Xiangli*, Linning Xu*, Xingang Pan, Nanxuan Zhao, Anyi Rao, Bo Dai, Christian Theobalt, Dahua Lin

BlockPlanner: City Block Generation with Vectorized Graph Representation (ICCV'2021)

Linning Xu*, Yuanbo Xiangli*, Anyi Rao, Nanxuan Zhao, Bo Dai, Ziwei Liu, Dahua Lin

Jointly Learning Attributes and Composition of Shots for Boundary Detection in Videos (TMM'2021)

Xuekun Jiang, Libiao Jin, Anyi Rao, Linning Xu and Dahua Lin

A Coarse-to-Fine Framework for Automatic Video Unscreen (TMM'2022)

Anyi Rao, Linning Xu, Zhizhong Li, Qingqiu Huang, Zhanghui Kuang, Wayne Zhang, Dahua Lin

A Unified Framework for Shot Type Classification Based on Subject Centric Lens (ECCV'2020)

Anyi Rao, Jiaze Wang, **Linning Xu**, Xuekun Jiang, Qingqiu Huang, Bolei Zhou, Dahua Lin

Learn to Propagate Reliably on Noisy Affinity Graphs (ECCV'2020)

Lei Yang, Qinggiu Huang, Huaiyi Huang, **Linning Xu**, and Dahua Lin

A Local-to-Global Approach to Multi-modal Movie Scene Segmentation (CVPR'2020)

Anyi Rao, Linning Xu, Yu Xiong, Guodong Xu, Qingqiu Huang, Bolei Zhou, Dahua Lin

Exact O(n²) Hyper-Parameter Optimization for Gaussian Process Regression (MLSP'2020)

Linning Xu, Yijue Dai, Jiawei Zhang, Ceyao Zhang, Feng Yin

Research Experience

Meta Reality Lab Research - Research Scientist Intern - Pittsburgh, USA	2023
The Chinese University of Hong Kong - Exchange - Hong Kong	2019
Stanford University - Portfolio Optimization - California, USA	2018

Professional Experience

Reviewers of: CVPR, ICCV, ECCV, SIGGRAPH, SIGGRAPH ASIA

Workshop organizer of CVEU: Creative Video Editing and Understanding (ICCV, ECCV, CVPR)

Selected Awards

Hong Kong Ph.D. Fellowship (HKPFS), Hong Kong	2020
National Scholarship, China	2019
Academic Performance Scholarship & Undergraduate Research Awards, CUHK	2016-2019