

# Linning Xu

linningxu@link.cuhk.edu.hk | SHB 702, CUHK | Shatin, Hong Kong

<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, Creative Video Understanding*

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

2016 - 2020

Bachelor of Science in Statistics, GPA: 3.962/4.00

## Publications

**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 Kotschieder, 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-guided 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, Qingqiu 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  $O(n^2)$  Hyper-Parameter Optimization for Gaussian Process Regression** (MLSP'2020)

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

### **Research Experience**

<b>Meta Reality Lab Research</b> (Intern), Pittsburgh, USA	2023
<b>The Chinese University of Hong Kong</b> (Visiting), Hong Kong	2019
<b>Stanford University</b> (Summer), California, USA	2018

### **Professional Experience**

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

### **Selected Awards**

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