Yuanbo Xiangli

Tel: +1(718)5219863/+8613811767475 Email: ambie.xlyb@gmail.com

EDUCATION

2019 – 2023	**The Chinese University of Hong Kong** PhD in MMLab, Information Engineering
2017 – 2018	**Oxford University** MSc in Computer Science
2013 – 2017	**University of Nottingham** BSc Honors Computer Science

BIO

I am currently a postdoc scholar at Department of Computer Science, Cornell University, advised by Prof. Noah Snavely. I obtained my Ph.D in Multimedia Lab, Information Engineering, CUHK, supervised by Prof. Dahua Lin. My research interest lies in 3D computer vision and generative modeling. I am working on photorealistic and efficient city scenes reconstruction, manipulation and generation based on multi-source data, including satellite imagery, oblique photography, street view panoramas and urban planning information. Find me at: https://kam1107.github.io/.

PUBLICATION

[1] T. Lu, M. Yu, L. Xu, Y. Xiangli, L. Wang, D. Lin, B. Dai, " Scaffold-GS: Structured 3D Gaussians for View-Adaptive Rendering", to appear in *Computer Vision and Pattern Recognition Conference (CVPR) 2024.*

[2] Y. Xiangli, L. Xu, X. Pan, N. Zhao, B. Dai, D. Lin, "AssetField: Assets Mining and Reconfiguration in Ground Feature Plane Representation", in *International Conference on Computer Vision 2023*.

[3] Y. Li, L. Jiang, L. Xu, Y. Xiangli, Z. Wang, D. Lin, B. Dai, "MatrixCity: A Large-scale City Dataset for City-scale Neural Rendering and Beyond", in *International Conference on Computer Vision 2023*.

[4] L. Xu, Y. Xiangli, S. Peng, X. Pan, N. Zhao, C. Theobalt, B. Dai, D. Lin, "Grid-guided Neural Radiance Fields for Large Urban Scenes", in *Computer Vision and Pattern Recognition Conference (CVPR) 2023.*

[5] W. Li, Y. Lai, L. Xu, Y. Xiangli, J. Yu, C. He, G. Xia, D. Lin, "OmniCity: Omnipotent City Understanding with Multi-level and Multi-view Images", in *Computer Vision and Pattern Recognition Conference (CVPR) 2023.*

[6] Y. Xiangli, L. Xu, X. Pan, N. Zhao, A. Rao, C. Theobalt, B. Dai, D. Lin, "BungeeNeRF: Progressive Neural Radiance Field for Extreme Multi-scale Scene Rendering", in *European Conference on Computer Vision 2022.*

[7] L. Xu, Y. Xiangli, A. Rao, N. Zhao, B. Dai, Z. Liu, D. Lin, "BlockPlanner: City Block Generation with Vectorized Graph Representation," in *International Conference on Computer Vision 2021*.

[8] Y. Xiangli, Y. Deng, B. Dai, C. C. Loy and D. Lin, "Real or Not Real, that is the Question," in *International Conference on Learning Representations 2020.* **(Spotlight)**

[9] C. X. Lu, Y. Li, Y. Xiangli and Z. Li, "Nowhere to Hide: Cross-modal Identity Leakage between Biometrics and Devices," in *Proceedings of The Web Conference 2020.* **(Oral)**

[10] C. X. Lu, Y. Xiangli, P. Zhao, C. Chen, N. Trigoni and A. Markham, "Autonomous Learning of Speaker Identity and WiFi Geofence from Noisy Sensor Data," in *IEEE Internet of Things Journal*, 2019.

[11] Y. Xiangli, C. X. Lu, P. Zhao, C. Chen, A. Markham, "iSCAN: automatic speaker adaptation via iterative cross-modality association," in *ISWC Adjunct, UniComp 2019*.

[12] Y. Li, H. Deng, Y. Xiangli, Z. Yuan, C. Peng, and S. Lu, "In-device, runtime cellular network information extraction and analysis: demo," In *Proceedings of the 22nd Annual International Conference on Mobile Computing and Networking (MobiCom '16)*. ACM, New York, NY, USA, 503-504, *2016*.

Preprint

[1] M. Yu, T. Lu, L. Xu, L. Jiang, Y. Xiangli, B. Dai, " GSDF: 3DGS Meets SDF for Improved Rendering and Reconstruction", arXiv 2024.

PROJECT/INTERN EXPERIENCE

2023.6-2023.9 **Adobe Research**

Research Scientist/Engineer (Intern)

2022-2023 **Shanghai AI Lab**

Student Researcher
LandMark project (https://www.shlab.org.cn/news/5443429): Large-scale real-world urban scene reconstruction, editing and stylization.

2020.3-2021.9 **Compilation and composition of Information Technology Textbook (High School)**

Author
Composed Chapter 14: Generative Modeling; participate in reviewing other chapters.

2019.2-2019.8 **Sensetime**

Research Intern
Worked with Dr. Bo Dai and Prof. Dahua Lin on realistic image synthesis with generative models.

2016 Summer **Computer Science Department, the University of California, Los Angeles**

Research Assistant
Worked with Dr. Yuanjie Li and Prof. Songwu Lu on project `MobileInsight', improving Dynamic Adaptive Streaming over HTTP (DASH) algorithm using physical layer bandwidth for smoother streaming.

2015.9-2016.6 **Computer Science Department, University of Nottingham**

Data Analyst and developer (android app `MentalSpace')
Worked with Prof. Max L. Wilson on electroencephalogram (EEG) data collection, analysis, and visualization.

2015 Summer **Information Engineering Department, the Chinese University of Hong Kong**

Research Assistant
Worked with Prof. Chen Change Loy on image aesthetic assessment.

TEACHING ASSISTANT

2021 Spring	Data Structure (Undergrad)
2019/20 Spring	Multimedia Coding and Processing (Undergrad)
2019/20/21 Fall	Problem Solving by Programming (Undergrad)

SKILLS AND INSERTS

Skills Python/Numpy, PyTorch, C, C++