

Yuanbo Xiangli

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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] [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*.
- [2] 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*.
- [3] 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*.
- [4] 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*.
- [5] [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*.
- [6] 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*.
- [7] [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)*
- [8] 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)*
- [9] 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.
- [10] [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*.
- [11] 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] T. Lu, M. Yu, L. Xu, [Y. Xiangli](#), L. Wang, D. Lin, B. Dai, “ Scaffold-GS: Structured 3D Gaussians for View-Adaptive Rendering”, arXiv 2023.

PROJECT/INTERN EXPERIENCE

2023.6-2023.9	Adobe Research <i>Research Scientist/Engineer (Intern)</i>
2022-2023	Shanghai AI Lab <i>Student Researcher</i> 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) <i>Author</i> Composed Chapter 14: Generative Modeling; participate in reviewing other chapters.
2019.2-2019.8	Sensetime <i>Research Intern</i> 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 <i>Research Assistant</i> 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 <i>Data Analyst and developer (android app ‘MentalSpace’)</i> 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 <i>Research Assistant</i> 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++
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