XIAOXIAO LONG (龙霄潇)

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EDUCATION

The University of Hong Kong (HKU)   *Present*
Postdoctoral
Supervisor: Prof. Wenping Wang (IEEE Fellow, ACM Fellow)

The University of Hong Kong (HKU)   *2018.09 - 2023.08*
Ph.D. in Computer Science
Supervisor: Prof. Wenping Wang and Prof. Taku Komura

Zhejiang University (ZJU)   *2014.09 - 2018.06*
B.S. in Control Science and Engineering

RESEARCH INTERESTS

Computer graphics: 3D content generation、neural rendering, 3D surface modeling
Computer vision: image based depth/normal estimation, image-based 3D reconstruction
Google scholar profile: https://scholar.google.com/citations?user=W3G5kZEAAAAJ&hl=en
Citation: 455, H-index: 11 (updated at 2024.02.04)

HONORS (SELECTED)

Hong Kong PhD Fellowship Scheme (top 100 PhD students in HK)   *2018 - 2023*
Computer Science Scholarship of HKU   *2018*
Scholarship of Zhejiang Province   *2016, 2017*
Scholarship of Zhejiang University (Top 1%)   *2015, 2016, 2017*
Supcon Scholarship [Supcon]   *2017*

PUBLICATIONS

∗ equal contribution; † corresponding author

1. **Xiaoxiao Long**∗, Yuhang Zheng∗, Yupeng Zheng, Beiwen Tian, Cheng Lin, Lingjie Liu, Hao Zhao, Guyue Zhou, Wenping Wang, *Adaptive Surface Normal Constraint for Geometric Estimation from Monocular Images*, [**in TPAMI submission, minor revision**]

2. **Xiaoxiao Long**∗, Yuan-Chen Guo∗, Cheng Lin, Yuan Liu, Zhiyang Dou, Lingjie Liu, Yuexin Ma, Song-Hai Zhang, Marc Habermann, Christian Theobalt, Wenping Wang, *Wonder3d: Single image to 3d using cross-domain diffusion*, [**ARXIV23**] **(Github 3.8k stars)**

3. Yingwenqi Jiang, Jiadong Tu, Yuan Liu, Xifeng Gao, **Xiaoxiao Long**†, Wenping Wang, Yuexin Ma†, *GaussianShader: 3D Gaussian Splatting with Shading Functions for Reflective Surfaces*, [**ARXIV23**]

4. Zhengming Yu∗, Zhiyang Dou∗, **Xiaoxiao Long**, Cheng Lin, Zekun Li, Yuan Liu, Norman Muller, Taku Komura, Marc Habermann, Christian Theobalt, Xin Li, Wenping Wang, *Surf-D: High-Quality Surface Generation for Arbitrary Topologies using Diffusion Models*, [**ARXIV23**]

5. Yupeng Zheng, Xiang Li, **Xiaoxiao Long**†, Pengfei Li, Yuhang Zheng, Chengliang Zhong, Bu Jin, Hao Zhao, Guyue Zhou, Qichao Zhang†, *MonoOcc: Digging into Monocular Semantic Occupancy Prediction*, [**ICRA24**]

6. Kai Cheng*, **Xiaoxiao Long***, Wei Yin, Jin Wang, Zhiqiang Wu, Yuexin Ma, Kaixuan Wang, Xiaozhi Chen, Xuejin Chen, *UC-NeRF: Neural Radiance Field for Under-Calibrated Multi-view Cameras in Autonomous Driving*, [**ICLR24**]

7. Zongcheng Li*, **Xiaoxiao Long***, Yusen Wang, Tuo Cao, Wenping Wang, Fei Luo, Chunxia Xiao, *NeTO: Neural Reconstruction of Transparent Objects with Self-Occlusion Aware Refraction-Tracing*, [**ICCV23**]

8. **Xiaoxiao Long**, Cheng Lin, Lingjie Liu, Yuan Liu, Peng Wang, Christian Theobalt, Taku Komura, Wenping Wang, *NeuralUDF: Learning Unsigned Distance Fields for Multi-view Reconstruction of Surfaces with Arbitrary Topologies*, [**CVPR23**]

9. **Xiaoxiao Long**, Cheng Lin, Peng Wang, Taku Komura, Wenping Wang, *SparseNeuS: Fast Generalizable Neural Surface Reconstruction from Sparse views*, [**ECCV22**]

10. **Xiaoxiao Long**, Cheng Lin, Lingjie Liu, Wei Li, Christian Theobalt, Ruigang Yang, Wenping Wang, *Adaptive Surface Normal Constraint for Depth Estimation*, [**ICCV21**]

11. **Xiaoxiao Long**, Lingjie Liu, Wei Li, Christian Theobalt, Wenping Wang, *Multi-view Depth Estimation using Epipolar Spatio-Temporal Networks* , [**CVPR21**]

12. **Xiaoxiao Long**, Lingjie Liu, Wei Li, Christian Theobalt, Wenping Wang, *Occlusion-Aware Depth Estimation with Adaptive Normal Constraints*, [**ECCV20**]

13. Yuan Liu, Cheng Lin, Zijiao Zeng, **Xiaoxiao Long**, Lingjie Liu, Taku Komura, Wenping Wang, *SyncDreamer: Generating Multiview-consistent Images from a Single-view Image*, [**ICLR24 spotlight**]

14. Ziqi Wang, Fei Luo, **Xiaoxiao Long**, Wenxiao Zhang, Chunxia Xiao, *Learning Long-range Information with Dual-Scale Transformers for Indoor Scene Completion*, [**ICCV23**]

15. Yuan Liu, Peng Wang, Cheng Lin, **Xiaoxiao Long**, Jiepeng Wang, Lingjie Liu, Taku Komura, Wenping Wang, *NeRO: Neural Geometry and BRDF Reconstruction of Reflective Objects from Multiview Images*, [**SIGGRAPH23 (journal track)**]

16. Jiepeng Wang, Peng Wang, **Xiaoxiao Long**, Christian Theobalt, Taku Komura, Lingjie Liu, Wenping Wang, *NeuRIS: Neural Reconstruction of Indoor Scenes Using Normal Priors*, [**ECCV22**]

17. Yuan Liu, Yilin Wen, Sida Peng, Cheng Lin, **Xiaoxiao Long**, Taku Komura, Wenping Wang, *Gen6D: Generalizable Model-Free 6-DoF Object Pose Estimation from RGB Images*, [**ECCV22**]

18. **龙霄潇**, 程新景, 朱昊, 张朋举, 刘浩敏, 李俊, 郑林涛, 胡庆拥, 刘浩, 曹汛, 杨睿刚, 吴毅红, 章国锋, 刘烨斌, 徐凯, 郭裕兰, 陈宝权, 三维视觉前沿进展, [**中国图象图形学报 2021**]

TEACHING

Teaching Assistants:

COMP3278 Introduction to database management systems	[Section 2B, 2018]
COMP3359 Artificial Intelligence Applications	[Section 2A, 2019]
COMP3270 Artificial intelligence	[Section 1A, 2021]

CVPR,ICCV,EUROGRAPHICS, TPAMI, TOG, TIP, TMM, TMC, CVM, Information Fusion, Neurocomputing, Pattern Recognition.