



EDUCATION

Peking University (PKU)

Sep 2023 - Present

Ph.D. Student, Computer Science, Advisor: Yongtao Wang

University Of Electronic Science And Technology (UESTC)

Sep 2019 - Jun 2023

B.S of Electrical Engineering and Information Technology

SELECTED PUBLICATIONS

- [1] **Xiaoyu Zhou**, Zhiwei Lin, Xiaojun Shan, Yongtao Wang, Deqing Sun, Ming-Hsuan Yang. DrivingGaussian: Composite Gaussian Splatting for Surrounding Dynamic Autonomous Driving Scenes. IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2024.
- [2] **Xiaoyu Zhou**, Xingjian Ran, Yajiao Xiong, Jinlin He, Zhiwei Lin, Yongtao Wang, Deqing Sun, Ming-Hsuan Yang. Gala3D: Towards Text-to-3D Complex Scene Generation via Layout-guided Generative Gaussian Splatting. International Conference on Machine Learning (**ICML**), 2024.
- [3] **Xiaoyu Zhou**, Jingqi Wang, Yongtao Wang, Yufei Wei, Nan Dong, Ming-Hsuan Yang. AutoOcc: Automatic Open-Ended Semantic Occupancy Annotation via Vision-Language Guided Gaussian Splatting. International Conference on Computer Vision (**ICCV**), **Highlight** 2025.
- [4] **Xiaoyu Zhou**, Jingqi Wang, Yongtao Wang, Deqing Sun, Ming-Hsuan Yang. EA3D: Online Open-World 3D Object Extraction from Streaming Videos. Neural Information Processing Systems (**NIPS**), 2025.
- [5] **Xiaoyu Zhou**, Zhiwei Lin, Xiaojun Shan, Yongtao Wang, Deqing Sun, Ming-Hsuan Yang. SAMPLING: Scene-adaptive Hierarchical Multiplane Images Representation for Novel View Synthesis from a Single Image. International Conference on Computer Vision (**ICCV**), 2023.
- [6] **Xiaoyu Zhou**, Xiaotong Song, Hao Wu, Jingran Zhang, Xing Xu. MAVT-FG: Multimodal Audio-Visual Transformer for Weakly-supervised Fine-Grained Recognition. ACM Multimedia (**MM**), 2023.
- [7] Wenyuan Yang, **Xiaoyu Zhou**, Zhikai Chen, Bofei Guo, Zhongjie Ba, Zhihua Xia, Xiaochun Cao, Kui Ren. AVoiD-DF: Audio-Visual Joint Learning for Detecting Deepfake. IEEE Transactions on Information Forensics and Security (**TIFS**), 2023.
- [8] Jingtong Yue*, Zhiwei Lin*, Xin Lin, **Xiaoyu Zhou**, Xiangtai Li, Lu Qi, Yongtao Wang, Ming-Hsuan Yang. RobuRCDet: Enhancing Robustness of Radar-Camera Fusion in Bird's Eye View for 3D Object Detection. International Conference on Learning Representations (**ICLR**),

2025.

[9] Xin Lin*, Shi Luo*, Xiaojun Shan, **Xiaoyu Zhou**, Chao Ren, Lu Qi, Ming-Hsuan Yang, Nuno Vasconcelos. HQGS: High-Quality Novel View Synthesis with Gaussian Splatting in Degraded Scenes. International Conference on Learning Representations (ICLR), 2025.

[10] Yajiao Xiong*, **Xiaoyu Zhou***, Yongtao Wang, Deqing Sun, Ming-Hsuan Yang. DrivingGaussian++: Towards Realistic Reconstruction and Editable Simulation for Surrounding Dynamic Driving Scenes. IEEE Transactions on Pattern Analysis and Machine Intelligence Information (TPAMI) Under Review.

WROK & PROFESSIONAL SERVICE

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|--|---------------------|
| Conference Reviewer | Mar 2023 - Sep 2025 |
| CVPR (2025, 2024), ICCV (2023, 2024, 2025), ICML (2024, 2025), AAAI (2024, 2025), NIPS (2024, 2025), IJCAI (2024), ICLR (2024, 2025) | |
| Journal Reviewer | Oct 2023 - Sep 2025 |
| TPAMI (2024, 2025), IJCV (2024, 2025), PRCV (2024), PR (2024, 2025) | |
| VDIG Team, Peking University | Jan 2023 - Sep 2023 |
| Research Scientist Intern on 3D Reconstruction | |
| CIS Lab, Peking University | Jun 2022 - Jan 2023 |
| Research Scientist Intern on Multimodal Alignment and Understanding | |
| National Key Laboratory of Big Data | Oct 2021 - Jun 2022 |
| Research Assistant on 3D generation | |

HONORS & AWARDS

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| International Mathematical Contest in Modeling, Finalist (Top 1% worldwide) | 2022 |
| Internet Innovation and Technology Competition, Gold Medal (Top 0.1% nationwide) | 2022 |
| National Information Security Competition, Second Prize (Top 0.5% nationwide) | 2023 |
| National Computer Design Competition, Second Prize (Top 0.7% nationwide) | 2023 |
| International Innovation Competition, Bronze Medal (Top 0.9% nationwide) | 2023 |
| National Scholarship, First Prize (Top 0.2% nationwide) | 2022 & 2023 |
| SenseTime Scholarship (1 out of 30 AI researchers worldwide) | 2023 |
| FunTech Science & Innovation Fund (1 out of 20 nationwide) | 2024 |
| Peking University Presidential Scholarship (top honor for PhD students) | 2024 |
| Wangxuan Institute of Computer Technology Scholarship | 2024 |
| Academic Innovation Award, Peking University | 2025 |