ZIPENG WANG

PhD Student · Computer Science & Engineering

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Education

Hong Kong University of Science and Technology — *Hong Kong*

PhD, Computer Science and Engineering — *2024 - present*

- Advisor: Dr. Dan Xu

Hong Kong University of Science and Technology (Guangzhou) — *Guangdong, China*

MPhil, Artificial Intelligence — *2022 - 2024*

- Advisor: Dr. Lin Wang

Beihang University — *Beijing, China*

BS, Information Management — *2018 - 2022*

Publications

Zipeng Wang, and Dan Xu. ”Zipeng Wang, and Dan Xu. ”FlashVGGT: Efficient and Scalable Visual Geometry Transformers with Compressed Descriptor Attention.” Conference on Computer Vision and Pattern Recognition. 2026.

Zipeng Wang, and Dan Xu. ”HyRF: Hybrid Radiance Fields for Memory-efficient and High-quality Novel View Synthesis.” Annual Conference on Neural Information Processing Systems. 2025.

Lu, Yunfan, Yusheng Wang, **Zipeng Wang**, Pengteng Li, Bin Yang, and Hui Xiong. ”Hr-inr: continuous space-time video super-resolution via event camera.” International Journal of Computer Vision. 2025.

Pan, Jingyi, **Zipeng Wang**, and Lin Wang. ”Co-occ: Coupling explicit feature fusion with volume rendering regularization for multi-modal 3d semantic occupancy prediction.” IEEE Robotics and Automation Letters 9.6 (2024): 5687-5694.

Zipeng Wang, Yunfan Lu, and Lin Wang. ”Revisit event generation model: Self-supervised learning of event-to-video reconstruction with implicit neural representations.” European Conference on Computer Vision. 2024.

Yunfan Lu, **Zipeng Wang**, Minjie Liu, Hongjian Wang, and Lin Wang. ”Learning spatial-temporal implicit neural representations for event-guided video super-resolution.” Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition. 2023.

Work Experience

2024-2025 **Postgraduate Teaching Assistant**, HKUST

2021-2022 **Research Intern**, Megvii Research

Teaching Experience

2025 **Introduction to Python Programming**, Teaching Assistant — *HKUST*

2024 **Deep 2D and 3D Visual Scene Understanding**, Teaching Assistant — *HKUST*

Academic Service

Reviewer: CVPR, ICCV, ECCV, NeurIPS, ICRA, IROS.