

Zhe Zhu

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Experience

Nanjing University of Aeronautics and Astronautics, Ph.D in Computer Science	04/2023 – Present
• Supervisor: Prof. Mingqiang Wei	
• Research Area: 3D Computer Vision	
Tencent Visvise, Research Intern	04/2025 – Present
Nanjing University of Aeronautics and Astronautics, M.Sc. in Computer Science	09/2021 – 04/2023
China University of Mining and Technology, B.Sc. in Computer Science	09/2017 – 06/2021

Interested Research Areas

- Point Cloud Processing
- 3D AIGC

Publications

Zhe Zhu, Le Wan, Rui Xu, Yiheng Zhang, Honghua Chen, Zhiyang Dou, Cheng Lin, Yuan Liu, Mingqiang Wei. PartSAM: A Scalable Promptable Part Segmentation Model Trained on Native 3D Data. Arxiv Preprint, 2025.

Zhe Zhu, Honghua Chen, Peng Li, Mingqiang Wei. CoreEditor: Consistent 3D Editing via Correspondence-constrained Diffusion. Arxiv Preprint, 2025.

Zhe Zhu, Honghua Chen, Xing He, Mingqiang Wei. PointSea: Point Cloud Completion via Self-structure Augmentation. International Journal of Computer Vision (**IJCV**), 2025.

An Li*, **Zhe Zhu*** (**Equal Contribution**), Mingqiang Wei. GenPC: Zero-shot Point Cloud Completion via 3D Generative Priors. IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2025.

Zhe Zhu, Liangliang Nan, Haoran Xie, Honghua Chen, Jun Wang, Mingqiang Wei, Jing Qin. CSDN: Cross-Modal Shape-Transfer Dual-Refinement Network for Point Cloud Completion. IEEE Transactions on Visualization and Computer Graphics (**TVCG**), 2024, 30(7):3545-3563.

Zhe Zhu, Honghua Chen, Xing He, Weiming Wang, Jing Qin, Mingqiang Wei. SVDFormer: Complementing Point Cloud via Self-view Augmentation and Self-structure Dual-generator. IEEE/CVF International Conference on Computer Vision (**ICCV**), 2023, 14462-14472.

An Zhao, Piaopiao Yu, **Zhe Zhu**, Mingqiang Wei. BSGS: Bi-stage 3D Gaussian Splatting for Camera Motion Deblurring. ACM International Conference on Multimedia (**MM**), 2025, 8351-8359.

Dequan Kong, Honghua Chen, **Zhe Zhu**, Mingqiang Wei. BridgeShape: Latent Diffusion Schrödinger Bridge for 3D Shape Completion. Annual AAAI Conference on Artificial Intelligence (**AAAI**), 2026.

Zhikun Wen, Honghua Chen, **Zhe Zhu**, Zeyong Wei, Liangliang Nan, Mingqiang Wei. CosCAD: Cross-Modal CAD Model Retrieval and Pose Alignment from a Single Image. International Conference on Computational Visual Media (**CVM**), 2025, 367-387.

Mingqiang Wei, Zeyong Wei, Haoran Zhou, Fei Hu, Huajian Si, Zhilei Chen, **Zhe Zhu**, Jingbo Qiu, Xuefeng Yan, Yanwen Guo, Jun Wang, Jing Qin. AGConv: Adaptive graph convolution on 3D point clouds. IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), 2023, 45(8):9374-9392.

Fei Hu, Honghua Chen, Xuequan Lu, **Zhe Zhu**, Jun Wang, Weiming Wang, Fu Lee Wang, Mingqiang Wei. SPCNet: Stepwise Point Cloud Completion Network. Computer Graphic Forum (**CGF**), 2023, 153-164.

Awards and Services

Suzhou Industrial Park Scholarship, 2024

Best Paper Nomination, CCF CAD/CG 2025

Program Committee: PG

Journal Reviewer: TPAMI, IJCV, TVCG, TIP, TMM, Neural Networks, Neurocomputing, EAAI

Conference Reviewer: CVPR, ICCV, ICLR, NeurIPS, MM