

# ZHENXING MI

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## RESEARCH INTEREST

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My research interests focus on multimodal generation and understanding. My current work integrates VLM capabilities into image and video generation models, bridging in-context reasoning to them. I also worked on NeRF, Multi-view Stereo, 3D generation and Mixture of Experts. My long-term goal is to empower 2D & 3D multimodal generation & understanding by large language models and large vision-language models, and exploring any-to-any unified multimodal models that excel at both reasoning and generation.

## EDUCATION

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- **The Hong Kong University of Science and Technology** Feb. 2021 - Mar. 2026 (Expected)  
Ph.D. candidate in Computer Science and Engineering  
Advisor: Prof. Dan Xu
- **Huazhong University of Science and Technology** Sept. 2017 - June 2020  
M.Sc. in Automation  
Advisor: Prof. Wenbing Tao
- **Huazhong University of Science and Technology** Sept. 2013 - June 2017  
B.Sc. in Control Science and Engineering  
Advisor: Prof. Wenbing Tao

## EXPERIENCE

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- **Personalized Generative AI, Snap Research.** July. 2024 - Oct 2024  
Research Intern, Multimodal generation  
Mentor: Kuan-Chieh Wang, Guocheng Qian and Kfir Aberman
- **Applied Research Center (ARC), PCG, Tencent** Jan. 2024 - May 2024  
Research Intern, 3D generation  
Mentor: Xintao Wang, Weihao Cheng

## PUBLICATIONS

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- **Zhenxing Mi**, Kuan-Chieh Wang, Guocheng Qian, Hanrong Ye, Runtao Liu, Sergey Tulyakov, Kfir Aberman, Dan Xu. “I Think, Therefore I Diffuse: Enabling Multimodal In-Context Reasoning in Diffusion Models.”, *ICML* 2025.
- **Zhenxing Mi**, and Dan Xu. “LeCO<sup>2</sup>-NeRF: Learning Continuous and Compact Large-Scale Occupancy for Urban Scenes.”, arXiv:2411.11374, *Technical report*.
- **Zhenxing Mi**, and Dan Xu. “Switch-NeRF: Learning Scene Decomposition with Mixture of Experts for Large-scale Neural Radiance Fields.” *ICLR* 2023.
- **Zhenxing Mi**, Di Chang, and Dan Xu. “Generalized Binary Search Network for Highly-Efficient Multi-View Stereo.” *CVPR* 2022.
- Ganzhangqin Yuan\*, Qiancheng Fu\*, **Zhenxing Mi\***, Yiming Luo\*, and Wenbing Tao. “SSRNet: Scalable 3D Surface Reconstruction Network.” *IEEE TVCG* 2022.
- Yiming, Luo\*, **Zhenxing Mi\***, and Wenbing Tao. “DeepDT: Learning Geometry From Delaunay Triangulation for Surface Reconstruction.” *AAAI* 2021.
- **Zhenxing Mi\***, Yiming Luo\*, and Wenbing Tao. “SSRNet: Scalable 3D Surface Reconstruction Network.” *CVPR* 2020.