Xueqi Ma

Ph.D. Candidate ⋄ Shenzhen University

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Research Interests

My research focuses on 3D generation, with an emphasis on curve-based wireframe modeling and point–line-based reconstruction. I also work on point-cloud processing, structural reconstruction, and the generation of complex geometries, with broader interests in Computer Graphics, Computer Vision, and Generative Modeling.

Publications

DiffHairCard: Auto Hair Card Extraction with Differentiable Rendering   *ACM SIGGRAPH ASIA 2025*
Zhongtian Zheng, Tao Huang, Haozhe Su, Xueqi Ma, Yuefan Shen, Tongtong Wang, Yin Yang, Xifeng Gao, Zherong Pan, Kui Wu.

CLR-Wire: Towards Continuous Latent Representations for 3D Curve Wireframe Generation   *ACM SIGGRAPH 2025*
Xueqi Ma, Yilin Liu, Tianlong Gao, Qirui Huang, Hui Huang.

GenUDC: High Quality 3D Mesh Generation With Unsigned Dual Contouring Representation   *ACM MM, 2024*
Ruowei Wang, Jiaqi Li, Dan Zeng, Xueqi Ma, Zixiang Xu, Jianwei Zhang, Qijun Zhao.

Generating 3D House Wireframes with Semantics   *ECCV, 2024*
Xueqi Ma, Yilin Liu, Wenjun Zhou, Ruowei Wang, Hui Huang.

Road Network Extraction of 3D Point Cloud Scene Based on L1-medial Extraction and Flexible Constraints   *Journal of CAD & CG*
Xueqi Ma, Pengdi Huang, Hui Huang

Tri-Vectors: Towards Parsimonious Representations for 3D Shape Generation   *Under Review*
Wenjun Zhou, Xueqi Ma, Chaoqi Chen, Daniel Cohen-Or, Hui Huang.

Internship Experience

LightSpeed Studios, Tencent   *Feb 2025 - May 2025*
Working on hair strand and hair-card generation
Supervised by Dr. Kui Wu

The Chinese University of Hong Kong, Hong Kong   *Aug 2024 - Feb 2025*
Research Assistant. Department of Computer Science and Engineering
Advised by Professor Chi-Wing FU, Philip

Visual Computing Research Center (VCC), Shenzhen University   *Nov 2021 - Sept 2022*
Working on 3D surface completion and reconstruction from point cloud
Supervised by Prof. Hui Huang and Dr. Pengdi Huang

Work Experience

Isvision Technology Co., Ltd., Hangzhou, Zhejiang   *Jan 2020 - Nov 2021*
Algorithm Engineer. Vision Algorithm Department
Advised by Dr. Xu Chen and Dr. Weichang Feng

Education

Shenzhen University   *Sept 2022 - Present*
Ph.D. in Computer Science
Supervisor: Prof. Hui Huang

Tianjin University   *Sept 2017 - Jan 2020*
M.sc. in Mechanical Engineering
Supervisor: Prof. Dawei Zhang

Hebei University of Technology   *Sept 2013 - Jun 2017*
B.Sc. in Mechanical Engineering
Supervisor: Prof. Jianhui Zhang

Awards

- Outstanding Innovative Talent Scholarship | *Shenzhen University* | *2024*

- Academic Scholarship | *Shenzhen University* | *2022–2024*

- Academic Scholarship | *Tianjin University* | *2017–2020*

- Academic Scholarship | *Hebei University of Technology* | *2013–2017*

Professional Skills

- **Programming languages**: Python, MATLAB, C/C++, Golang, Markdown, LaTex

- **Toolkits**: PyTorch, Git, CMake

- **Languages**: Mandarin (native), English (fluent)

- **Tools** Linux/Unix, Shell (Bash/Zsh), Blender, Adobe Illustrator