

# Xueqi Ma

Ph.D. Candidate ◊ Shenzhen University

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## Research Interests

My research focuses on 3D generation, emphasizing curve-based wireframe modeling and point-line-based reconstruction. I investigate point-cloud processing, structural reconstruction, and complex shape generation. My broader research interests include Computer Graphics, Computer Vision, and Generative Models.

## Publications

**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 - Present*

Working on hair strand and hair-card generation

*Supervised by Dr. Kui Wu*

**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

**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*

**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

Ph.D. in Computer Science

*Supervisor: Prof. Hui Huang*

*Sept 2022 - Present*

### Tianjin University

M.sc. in Mechanical Engineering

*Supervisor: Prof. Dawei Zhang*

*Sept 2017 - Jan 2020*

### Hebei University of Technology

B.Sc. in Mechanical Engineering

*Supervisor: Prof. Jianhui Zhang*

*Sept 2013 - Jun 2017*

## 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