

Xueqi Ma

Ph.D. Candidate ◊ VCC ◊ 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

Hunyuan3D Studio: End-to-End AI Pipeline for Game-Ready 3D Asset Generation *Technical Report, 2025*

Hunyuan3D Team. Xueqi Ma is one of the contributors of Semantic UV.

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*

Ruwei 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, Ruwei 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*.

SeamCrafter: Geometry-Topology Fusion and Preference Alignment for High-Quality UV Seam Generation *Under Review*

Duoteng Xu, Jing Li, Yuguang Chen, Xueqi Ma, Yang Li, Xinhai Liu, Zhuo Chen, Chunchao Guo*.

Work Experience

Isvision Technology Co., Ltd., Hangzhou, Zhejiang

Jan 2020 - Nov 2021

Algorithm Engineer. Vision Algorithm Department

Supervised by Dr. Xu Chen and Dr. Weichang Feng

Internship Experience

Hunyuan3D, Tencent

Focused on UV seam generation and UV unwrapping for 3D models
Supervised by Dr. Xinhai Liu

Jun 2025 - Sep 2025

LightSpeed Studios, Tencent

Working on hair strand and hair-card generation
Supervised by Dr. Kui Wu

Feb 2025 - May 2025

The Chinese University of Hong Kong, Hong Kong

Research Assistant. Department of Computer Science and Engineering
Advised by Professor Chi-Wing FU, Philip

Aug 2024 - Feb 2025

Visual Computing Research Center (VCC), Shenzhen University

Working on 3D surface completion and reconstruction from point cloud
Advised by Prof. Hui Huang and Dr. Pengdi Huang

Nov 2021 - Sept 2022

Education

Shenzhen University

Ph.D. in Computer Science
Lab: VCC
Supervisor: Prof. Hui Huang

Sept 2022 - Jun 2026

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