

YIBO YIN

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EDUCATION

Wuhan University

B.Eng. in Computer Science and Technology

- **GPA:** 3.93 /4.00 (top 4%)

Wuhan, China

Sept. 2021 - Jun. 2025

École polytechnique fédérale de Lausanne

M.Sc. in Digital Humanities

Lausanne, Switzerland

Sept. 2025 - Present

RESEARCH EXPERIENCE

Graphics and Vision Lab, Wuhan University

Research Assistant

May. 2023 - Jan. 2024

Advisor: Prof. Chunxia Xiao

- Assembled a set of equipment with an Intel depth camera and STMicroelectronics ToF sensors, creating a dataset of over 10,000 images and corresponding sensor data.
- Proposed a novel monocular depth estimation method using RGB images and sensor data as input.

Waterloo Computer Graphics Lab, remotely at University of Waterloo

Research Assistant

June. 2024 - Aug. 2024

Advisor: Prof. Toshiya Hachisuka

- Reproduced the algorithm in the SIGGRAPH paper *A Practical Walk-on-Boundary Method for Boundary Value Problems* for solving the boundary value problem of Laplace's equation with Dirichlet boundaries.

Computer Graphics Lab, remotely at the University of Texas at Dallas

Research Assistant

April. 2024 - Present

Advisor: Prof. Xiaohu Guo

- Extended the evaluation algorithm in the SIGGRAPH Course Note paper *Evaluation of Loop Subdivision Surfaces* and the SGP paper *Fitting Sharp Features with Loop Subdivision Surfaces* to fragmented medial axis meshes under Loop Subdivision.
- Extended the simplification algorithm in the SIGGRAPH paper *Q-MAT: Computing Medial Axis Transform by Quadratic Error Minimization* to fragmented medial axis meshes.
- Proposed a subdivision surface fitting algorithm in collaboration with advisor, designed to preserve the sharp features of the fragmented medial axis mesh during fitting.

PUBLICATIONS

MATStruct: High-Quality Medial Mesh Computation via Structure-aware Variational Optimization

Ningna Wang, Rui Xu, **Yibo Yin**, Zichun Zhong, Taku Komura, Wenping Wang, Xiaohu Guo

ACM SIGGRAPH Asia 2025 (Conference Track)

AWARDS

- **Outstanding Student** (10% school-wide), Wuhan University 2022, 2023, 2024
- **Second Class Scholarship** (10% school-wide), Wuhan University 2022
- **Third Class Scholarship** (15% school-wide), Wuhan University 2023, 2024
- **Lei Jun Computer Innovation and Development Fund**, Wuhan University 2024

TECHNICAL SKILLS

- **Languages:** Mandarin Chinese (Native Speaker), English (TOEFL iBT 102, R26 | L26 | S23 | W27)
- **Programming Languages:** C++, C, Python, C#, GLSL, SQL, Verilog HDL, Java
- **Library/Framework/Tool/Software:** Git, CMake, Nori, Blender, Pbrt-v3, PyTorch