

# YIBO YIN

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## EDUCATION

### École polytechnique fédérale de Lausanne (EPFL)

Lausanne, Switzerland

*M.Sc. in Digital Humanities*

09/2025 - Present

### Wuhan University

Wuhan, China

*B.Eng. in Computer Science and Technology*

09/2021 - 06/2025

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

## 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)*

## RESEARCH EXPERIENCE

### Computer Graphics Lab, The University of Texas at Dallas

04/2024 - 11/2025

*Research Assistant (Remote) | 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 structured 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 structured medial axis meshes.
- Proposed a subdivision surface fitting algorithm in collaboration with advisor, designed to preserve the sharp features of the structured medial axis mesh during fitting.

### Waterloo Computer Graphics Lab, University of Waterloo

06/2024 - 08/2024

*Research Assistant (Remote) | 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.

### Graphics and Vision Lab, Wuhan University

05/2023 - 01/2024

*Research Assistant | 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.

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