

# YIBO YIN

✉ yibo.yin@epfl.ch • ☎ (+86) 139 4881 2636 • 🌐 <https://bryceyin13.github.io/>

## EDUCATION

---

### École polytechnique fédérale de Lausanne (EPFL)

*M.Sc. in Digital Humanities*

Lausanne, Switzerland

09/2025 - Present

### Wuhan University

*B.Eng. in Computer Science and Technology*

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

Wuhan, China

09/2021 - 06/2025

## 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 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.

### 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.

## 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 (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