

Yitong Yao (Polly)

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RESEARCH INTERESTS

Human-computer Interaction, Wearable Devices

EDUCATION

University of Washington

Master of Science in Technology Innovation (Connected Devices)

09.2025 - 04.2027

- Major courses: Machine Learning, Signal Processing, Sensor and Circuits, Physical Prototyping, Programming for AI, Programming for Interfaces, Design Thinking, Interaction Design, Innovation Strategy

East China University of Science and Technology

Bachelor of Engineering: Landscape Architecture

09.2021 - 07.2025

- Major courses: Computer Aided Design, Architecture Design, Landscape Planning and Design, Data Analysis and GIS

RESEARCH EXPERIENCE

Rice Research Group, China Yazhou Bay National Laboratory

Research Assistant

07.2025-08.2025 Hainan, China

- Engaged in bioinformatics data analysis and AI-assisted research workflows.
- Constructed large-model pipelines for batch gene information screening and automated extraction of text-image data from scientific publications.

Grand Canal Settlements Cultural Ecology Mapping Visualization Study

Research Assistant

05.2024-09.2024 Shanghai, China

- Investigated the historical and cultural background of settlements along the Grand Canal and explored the application of map visualization technology in cultural ecology research.
- Collected and analyzed cultural ecological data of Grand Canal settlements, presenting settlement characteristics through map-based visualizations.

PUBLICATIONS

Yao, Y. (2024). Paradigm Shift for Green Space Planning in Tourism Towns: The Design of Interactive Sculpture. E3S Web of Conferences, 565, 03025. <https://doi.org/10.1051/e3sconf/202456503025>

TOOLS

Skills:

- Prototyping, Modeling, Coding (basic), Machine Learning, User Research, User Experience Design, Digital Media Production, Data Analysis, Interaction Design, Video Production/Editing

Apps:

- Python, HTML/CSS, Thonny, Fusion360, Figma, Microsoft, Adobe Suite, Rhino, SketchUp, GIS, CAD

WORK EXPERIENCE

Shanghai Shengyi Information Technology Co., Ltd

UI Designer Intern

05.2024-09.2024 Shanghai, China

- Designed presentation slides for internal training, project proposals, and business reports.
- Created user interfaces for mobile applications, websites, and backend management systems.
- Designed data visualization dashboards for large display screens.

Zhejiang Agriculture and Forestry University Landscape Design Institute Co., Ltd

Landscape Design Intern

07.2023-08.2023 Hangzhou, China

- Assisted the team in conducting on-site inspections, recording the current status of the site.
- Used software such as AutoCAD, SketchUp, Photoshop, etc. to participate in landscape scheme design, construction drawing, basic modeling, and rendering production.