

PERSONAL INFORMATION

Wenqian Yang

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WORK EXPERIENCE

- Mar 2021 – now **Scientific Assistant & Lecturer**
Digital Building Technologies, ETH Zurich
-Extended Reality development in Architecture research and teaching
-Lead teaching of Advanced Computational Design Course and Design++ workshop
- Oct 2023 – Jul 2025 **Scientific Assistant**
Concrete Structures and Bridge Design, ETH Zurich
-Teaching applications in construction and engineering
- Nov 2019 – Dec 2020 **Intern**
Block Research Group, ETH Zurich
-Software development for structure design
- Aug 2010 – Aug 2017 **Architect**
LAB Architecture Studio, China & Australia
-Architectural designing
-Project managing
-External coordinating

EDUCATION AND TRAINING

- 2018 – 2019 **Master of Advanced Study in Architecture and Digital Fabrication**
Institute of Technology in Architecture, ETH, Switzerland
- 2017 – 2018 **Master of Architecture (Distinction)**
Bartlett School, University College London, United Kingdom
- 2005 – 2010 **Bachelor of Architecture (Distinction)**
Southwest Jiaotong University, China

SKILLS**Architecture Design and Fabrication**

- In-place robotic fabrication with timber
- Large scale 3D printing with concrete and polymer

Software Developing

- XR Application on HoloLens, Android & IOS, WebGL
- Grasshopper and Rhino Plugins

Machine Learning and Deep Learning

- Image processing, Object recognition
- Generative design

PUBLICATIONS

- 2025 Mola-Advancing Generative Design in Architectural Pedagogy: An open-source library and plugins for rule-based mesh subdivision for computational design education
W. Yang, B. Dillenburger
Tokyo, Japan(The University of Tokyo) CAADRIA
<https://doi.org/10.52842/conf.caadria.2025.1.449>
- 2025 Mixed-Reality Apartment Layout Design Using Scaled 3D-Printed Furniture Models as Interactive Markers
W. Yang, A. Savov, B. Dillenburger
Hong Kong(The University of Hong Kong) CAAD Futures
<https://doi.org/10.25442/hku.29365724>
- Submitted for review 3D Textbook and Beyond: Interactive Learning Platforms for Architectural and Structural Education
W. Yang, W Kaufmann
Taiwan(Ming Chiao Tung University) CAADRIA
- 2025 Augmented Reality for Structural Inspection of Historic Monuments: The Case of Lausanne Cathedral
R. Maia Avelino, W. Yang, et al.
International Journal of Architectural Heritage
- 2025 The Lausanne Cathedral seen through XR: Structure and Materials
R. Maia Avelino, Y. Patankar, W. Yang, et al.
Lausanne cathedral SAHC
- 2025 Heritage ++, a Spatial Computing approach to Heritage Conservation
Y. Patankar, C. Tennenini, W. Yang, R.J. Flatt, et al.
RILEM / Springer Nature
<https://doi.org/10.21809/rilemtechlett.2024.202>