

## PERSONAL INFORMATION

## Wenqian Yang

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## WORK EXPERIENCE

Mar 2021 – now

## Scientific Assistant &amp; 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>