

# Dr. Shenghuan ZHAO's Curriculum Vitae

Kuala Lumpur, Malaysia

Date of the CV: August 2025

## Personal Details

Surname: Zhao	Given name: Shenghuan	Gender: Male
Born: July 23 <sup>rd</sup> 1986	Marriage: Single	Nationality: Chinese
Email: shenghuan.zhao@proton.me	Mobile: +60 179470879	

## Full Time Education

Time	Location	Institutions	Degrees/Certificate
2004-2009	Hangzhou, China	Zhejiang University of Science & Technology	Bachelor of Engineering in Architecture
2009-2010	Shanghai, China	Tongji University	Postgraduate in Acoustics
2014-2016	Milan, Italy	Politecnico di Milano	Master of Science in Sustainable Architecture
2016-2020	Milan, Italy	Politecnico di Milano	PhD in Sustainable Architecture, Built Environment and Construction Engineering

## Other Educational Experiences

Yonsei University (Coursea)	IoT (Internet of Things) Wireless & Cloud Computing
MIT (Coursea)	Machine Learning
Hongkong University (Coursea)	University Teaching

## Professional Experience

<b>Shanghai JZA Architects</b>	2009.07-2014.07	Shanghai, China	Architects, responsible for sketch design stage and development design stage. As the key architect in this company, I completed eight design projects and three of them have been constructed.
<b>Suzhou University of Science and Technology</b>	2020.10-2024.12	Suzhou, China	<b>Assistant Professor (Lecturer)</b> in Department of Architecture, responsible for organizing courses and workshops, giving lectures, tutoring master's degree students.

· **Researcher** in Jiangsu Key Laboratory of Intelligent Building Energy Efficiency, responsible for conducting research, doing experiments, writing academic research papers, communicating with cooperation units outside.

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**Korea Advanced Institute of Science and Technology** 2023.01-2023.12 Daejeon, Korea

· **Visiting Scholar** in School of Cultural Technology, part time.

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**UCSI University** 2025.02-Now Kuala Lumpur, Malaysia

· **Assistant Professor** in School of Architecture and Built Environment. Currently, I supervise 1 PhD student and teach BIM-related courses for diploma program, bachelor program, master degree program, and also the PhD program.

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## Professional Certificate

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Google Project Management Certificate	ID: H6CZZZAAYTG8	Since 2025
LEED AP (LEED Accredited Professionals)	ID: 11111068	Since 2015
University Teacher Qualification in China	ID: 20223200171004008	Since 2022
High Level AI Application Engineer	ID: CMCA202306607007	Since 2023

## Editorship

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### Editorial Board Member

Journal of Integrated Design & Process Science (eISSN: 1875-8959)

Journal of Future Cities and Environment (eISSN: 2363-9075)

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### Associate Editor

Sustainable Buildings (eISSN: 2492-6035)

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## Language Skills

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Chinese (Native)      English (Fluent)      Italian (Daily Life Usage)

## Recent Publications

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Zhao, S., Ni, Y., Dong, G., Tian, J., & Chen, Y. (2023). Comparing three XR technologies in reviewing performance-based building design: A pilot study of façade fenestrations. *Comp Anim Virtual Worlds*, May 2022, 1–20. <https://doi.org/10.1002/cav.2139>

Zhao, S., Pan, Q., Gao, D., & Cheng, J. (2022). Integrating Internet of Things and Mixed Reality to Teach Performance-based Architectural Design: A Case Study of Shading Devices. *Education and Information Technologies*. <https://doi.org/10.1007/s10639-022-10998-6>

Zhao, S., Wang, L., Qian, X., & Chen, J. (2021). Enhancing performance - based generative architectural design with sketch - based image retrieval: a pilot study on designing building facade fenestrations. *The Visual Computer*. <https://doi.org/10.1007/s00371-021-02170-x>

- Zhao, S. (2021). Using artificial neural network and WebGL to algorithmically optimize window wall ratios of high-rise office buildings. *Journal of Computational Design and Engineering*, 8(2), 638–653. <https://doi.org/10.1093/jcde/qwab005>
- Zhao, S. (2020). Searching for office buildings ' fenestration geometries with a Bi-phase optimization framework Searching for office buildings ' fenestration geometries with a Bi-phase optimization framework. *Science and Technology for the Built Environment*, 26(9), 1–13. <https://doi.org/10.1080/23744731.2020.1777048>
- Zhao, S., & Angelis, E. De. (2020). Reducing Mould Risk During the Building Design Stage : Case Studies in South-East China. *Journal of Construction in Developing Countries*, 25(1), 1–20.
- Zhao, S., & Angelis, E. De. (2019). Performance-based Generative Architecture Design : A Review on Design Problem Formulation and Software Utilization. *Journal of Integrated Design and Process Science*, 22(3). <https://doi.org/10.3233/JID190001>
- Zhao, S. (2019). Using algorithms to designate pre-fabricated wall materials : A case study with two implementation methods. *Case Studies in Construction Materials*, 2018, e00220. <https://doi.org/10.1016/j.cscm.2019.e00220>
- Zhao, S., De Angelis, E., & Ma, D. (2018). Reflecting on the architecture curriculum through a survey on career switching. *Design and Technology Education: An International Journal*, 23(1).
- Zhao, S. (2017). Aural landscape as an intangible heritage in Chinese classical gardens Aural landscape as an intangible heritage in Chinese classical gardens shenghuan zhao. *Studies in the History of Gardens & Designed Landscapes*, 00(00), 1–8. <https://doi.org/10.1080/14601176.2016.1268770>

## **Research Funding**

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- Research Startup Funding in Suzhou University of Science and Technology
- Jiangsu Provincial Natural Science Foundation for Youth
- Jiangsu Provincial Funding for innovative and entrepreneurial talents

## **Research Interest**

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- Building Information Modelling
- IoT (Internet of Things) - based smart built environment
- Interactive Extended Reality (AR VR MR) in built environment