

ZHANG Baizhou

PhD Candidate • Architectural Design, Computational Design

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Location: Nanjing, Jiangsu, China

RESEARCH PROFILE

PhD candidate at the School of Architecture, Southeast University. Research focuses on computational design, generative design, and AI applications in architecture, with particular interest in urban form encoding, generative urban design and data-driven design workflows.

EDUCATION

2022 - Present	PhD Candidate, Architecture School of Architecture, Southeast University
2020 - 2022	Master's-stage Study, Integrated Master-PhD Track School of Architecture, Southeast University
2015 - 2020	Bachelor of Architecture School of Architecture, Southeast University

SELECTED PUBLICATIONS

- Baizhou Zhang**, Yichen Mo, Biao Li. (2026). **Reimagining Synergy between Architects and Computational Systems: Insights from Web-based Generative Design Applications.** *Frontiers of Architectural Research*. 15(3), pp. 795-805. DOI: [10.1016/j.foar.2025.07.009](https://doi.org/10.1016/j.foar.2025.07.009).
- Baizhou Zhang**, Biao Li. (2025). **From knowledge encoding to procedural generation for early-stage layout design: A case of linear shopping centres.** *Frontiers of Architectural Research*. 14(1), pp. 282-294. DOI: [10.1016/j.foar.2024.07.002](https://doi.org/10.1016/j.foar.2024.07.002).
- Baizhou Zhang**, Yichen Mo, Biao Li. (2025). **Web-based computational design tools for architectural design studio: enhancing pedagogical framework.** *Nexus Network Journal*. 27(3), pp. 663-680. DOI: [10.1007/s00004-025-00826-y](https://doi.org/10.1007/s00004-025-00826-y).
- Baizhou Zhang**, Yichen Mo, Biao Li, Yanyu Wang, Chao Zhang, Ji Shi. (2024). **SIMForms: A Web-Based Generative Application Fusing Forms, Metrics and Visuals for Early-Stage Design.** *CAADRIA 2024, Singapore, Singapore*. 1, pp. 373-382. DOI: [10.52842/conf.caadria.2024.1.373](https://doi.org/10.52842/conf.caadria.2024.1.373).
- Baizhou Zhang**, Yichen Mo, Biao Li. (2023). **Case-Based Reasoning Strategy for Urban Morphological Generative Design: A Case Study of Block Scale.** *South Architecture*. no. 1, pp. 9-18. DOI: [CNKI](https://doi.org/10.1016/j.south.2023.09.001).

RESEARCH GRANTS

2025 - 2026	SEU Innovation Capability Enhancement Plan for Doctoral Students Southeast University • Grant No. CXJH_SEU 25057 Project Investigator • Ongoing
2024 - 2026	Postgraduate Research & Practice Innovation Program of Jiangsu Province Jiangsu Provincial Department of Education • Grant No. KYCX24_0418 Project Investigator • Ongoing
2021 - 2023	Postgraduate Research & Practice Innovation Program of Jiangsu Province Jiangsu Provincial Department of Education • Grant No. SJCX21_0025 Project Investigator • Completed

AWARDS & HONORS

2025	Southeast University “Zhishan” Scholarship for PhD Students Southeast University
2025	Outstanding Individual in Academic Innovation, Southeast University Southeast University
2024	Young CAADRIA Award The Association for Computer-Aided Architectural Design Research in Asia (CAADRIA)
2024	Li Ce & Guo Zhe Digital Design Scholarship SEU Education Foundation
2020	Huajian Cup - Excellent graduation design of School of Architecture, SEU, 2nd prize School of Architecture, Southeast University

INTELLECTUAL PROPERTY

2025	Method and system for generating loop animation Biao Li, Qiyang Zhang, Baizhou Zhang, Peng Tang, Zhehao Song, Hongjian Li CN113888683A • Granted patent • CNIPA
2021	Design and construction method of assembly type UHPC shell Hao Hua, Biao Li, Baizhou Zhang, Xugang Chen, Yuyuan Che CN110593478B • Granted patent • CNIPA

SELECTED RESEARCH PROJECTS

2024	FLEXUrban Main contributor A web-based generative tool for tensor-field-based site subdivision, typology-oriented building massing generation, and parametric mapping of grayscale images.
2023	SIMForms Main contributor A web-based generative tool for parametric model generation, metric feedback, and AI-generated renderings.
2021	Shopping Centre Layout Generator Main contributor Geometry-based generation of linear shopping centre layouts, including circulation spaces and shop subdivision.
2019	Sichuan Dayi Country Ecology Museum & Moiré Pattern Dynamic Wall Design Team Member • Chengdu, Sichuan, China Contributed to the design of the landscape wall's moiré algorithm and to automated CNC drawing export, fabrication, and construction.

TEACHING EXPERIENCE

Autumn 2024	Autumn 2024 Graduate Architectural Design Studio - "Digital Technology-Based Urban Renewal around Stadio Artemio Franchi, Florence" Teaching Assistant • Southeast University, Nanjing, China & Università degli Studi di Firenze, Firenze, Italy
November 13-15, 2024	CDAC 2024 Workshop - "Decoding Syntax: Generative Urban Design Network" Teaching Assistant • Tongji University, Shanghai, China
Spring 2024	Senior Undergraduate Architectural Design Studio - "Digital Encoding of Morphology and Typology" Teaching Assistant • Southeast University, Nanjing, China
Autumn 2022	Master's Course - "Introduction to AI for Architects" Teaching Assistant • Southeast University, Nanjing, China

ACADEMIC SERVICE

Invited Reviewer for: Frontiers of Architectural Research; Scientific Reports; Archives of Computational Methods in Engineering; URBAN DESIGN International; CAADRIA