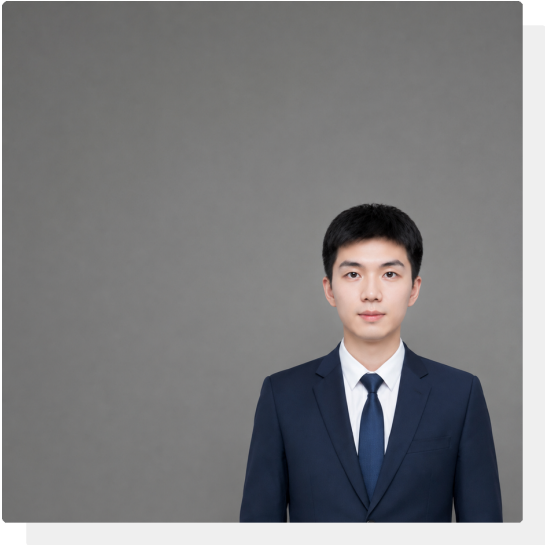




Zi-Jie Zou

ZOU Zi-Jie is an architecture-trained researcher and data analyst working across waterfront urban architecture, built-environment evaluation, architectural design, urban planning and user experience. His work connects multi-attribute decision-making, machine learning, natural language processing, rough set theory, space syntax and GIS-based analysis.

He contributes to research on neighbourhood built environments, nursing-home environments, perceived safety, online nursing-home platforms, urban sculpture affordance and sports identity. His practice also includes architectural concept design, expanded preliminary design and construction-drawing coordination.

Research interests: multi-attribute decision making; machine learning; architectural design; urban planning and design; decision optimization; affordance design; cognitive design; user behavior and experience.

M.Arch., Macau University of Science and Technology

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Academic Qualification

Master of Architecture, Macau University of Science and Technology 澳門科技大學

2022.09-2024.08 · Macao, China

Direction: Waterfront Urban Architecture and Design.

Core courses include Design Research Methods, Advanced Architectural and Environmental Design, Building Environmental Control, Waterfront Urban and Sustainable Architectural Design Principles.

Bachelor of Engineering in Architecture, Jinggangshan University 井岡山大學

2017.09-2022.06 · Ji'an, China · GPA: 3.42/4.0 · Top 5%

Core courses include architectural design studios, architectural structure and selection, construction, architectural mechanics, Western architectural history and Chinese architectural history.

Research Interests and Skills

- Research interests include multi-attribute decision making, machine learning, architectural design, urban planning and design, decision optimization, affordance design, cognitive design, and user behavior and experience.
- Methods and tools include DEMATEL, Rough Sets Theory, Space Syntax, Fuzzy Integral, Entropy Method, SPSS, Python, Octopus, Depthmap, ArcGIS, Rhino/Grasshopper, AutoCAD, SketchUp and Adobe series.
- Language: CET-6.

Selected Publications and Manuscripts

Transmission Mechanism of the Neighbourhood Built Environment's Influence on Sense of Community under Dual Subjective-Objective Knowledge

Under review · Cities, SCI, IF 6.6, JCR Q1 · 2025.07.

Co-author: Si-Jie Li, Zi-Jie Zou (co-first authors), Lei Xiong, Bo-Wei Zhu, Xi Ye and Gwo-Hshiung Tzeng.

From Images to Health Insight: Integrating MLLM, NLP, and Objective Q-sorting of Nursing-Home Built Environment Orientations

Published · Frontiers in Medicine, SCI, IF 3.0, JCR Q1 · 2025.11.

DOI: <https://doi.org/10.3389/fmed.2025.1737721> · Co-author: Si-Jie Li, Zi-Jie Zou (co-first authors), Xi Ye and Chunhua Lin.

How Graffiti and Surroundings Shape Visitor's Perceived Safety: A Multiple Conjunctural Causation Analysis

Published · Cities, SCI, IF 6.6, JCR Q1 · 2025.09.

DOI: <https://doi.org/10.1016/j.cities.2025.106481>.

Unveiling Popularity Mechanisms in Online Nursing Home Platforms

Under review · International Journal of Information Technology and Decision Making, SCI, IF 1.8, JCR Q3 · 2025.09.

A questionnaire-free DEMATEL approach based on rough set and clustering. Co-first author.

Additional Manuscripts

Affordance Design Strategies for Urban Sculptures as Landmarks

Under review · Humanities and Social Sciences Communications, SSCI, IF 3.6, JCR Q1 · 2024.12.

Uses NLP on social media data to build an influential network relation map. Corresponding author.

The Resonance of Wearing the Jersey

Under review · Soccer and Society, SSCI, IF 1.4, Q3 · 2025.04.

Examines how jersey design influences fans' identity based on RST-DEMATEL modelling.

Work Experience

Data Analyst, CCIG (Zhuhai) International Culture Development Co., Ltd.

集智（珠海）國際文化發展有限公司

2024.06-present · Zhuhai, China

Uses web crawling to support research data collection and organization, conducts data cleaning and preprocessing, applies statistical and machine-learning methods, and prepares reports to support research decision-making.

Architectural practice: assisted Lei Xiong and served as scheme lead for the Tianchang resort village concept design, expanded preliminary design and construction-drawing coordination.

Assistant Architect, Shanghai Jiusheng Architectural Decoration Design Consulting Co., Ltd. 上海洵生建築裝飾設計諮詢有限公司

2022.01-2022.05 · Shanghai, China

Participated in four healthcare and senior-care architecture projects including Taikang Qinyuan, Ronghua Hainan Lingshui and Suzhou Songling Health Center, supporting concept design, scheme design, progress review, deliverable quality review and construction-design problem solving.

Teaching and Practice Experience

- Third Prize, National Division, 2nd Vitality Regeneration and Urban Renewal Planning and Design Competition, World Association of Chinese Architects, 2022.12.
- Winning Award, National Division, 8th Cross-Strait Emerging Designers Competition, Huacan Award, 2023.08.
- Third Prize, National Division, 9th Cross-Strait Emerging Designers Competition, Huacan Award, 2023.08.
- Potential Star Award, Hengqin National Wetland Park Visitor Service Center Architectural Scheme Competition, 2025.05.
- Teaching Assistant, Research Methods for Master of Architecture, Macau University of Science and Technology; Space Syntax topic, 2023.10.
- External teacher, Digital and Form, Environmental Art Design undergraduate course, Guangzhou Academy of Fine Arts; Space Syntax topic, 2024.04.
- External teacher, Environmental Cognition and Expression, Master of Architecture course, Guangzhou Academy of Fine Arts; GIS topic, 2024.11.