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| Name | ZHENG Jianyi |
| Gender | Male |
| Professional Qualification | Class-1 registered architect, China Registered urban and rural planner, China Registered architect, Macao SAR |
| Research Field | Urban Form and urban renewal protection, Healthy urban Form, Smart Heritage |

Academic Qualifications

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| 2011 - 2017 | Ph.D in Urban Planning and Design, School of Architecture, South China University of Technology, China |
| 2003 - 2006 | Master of Engineering in Architectural History and Theory, School of Architecture, Huaqiao University, China |
| 1998 - 2003 | Bachelor of Architecture, Department of Architecture, Huaqiao University, China |

Teaching Experiences

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| 2023.7 - now | Associate Professor, supervisor for March, PhD |
| 2018–2023.6 | Assistant Professor, supervisor for March, PhD |
| 2018 - 2020 | Assistant Professor, supervisor for Master of Arts Visiting Scholar sponsored by CSC scholarship, School of Geography, Earth and Environmental Sciences, University of Birmingham, UK Supervisor: Prof. J.W.R. Whitehand |
| 2015 - 2016 | Supervisor for Master of Architecture, Huaqiao University |
| 2015 - 2017 | Lecturer, School of Architecture, Huaqiao University |
| 2009 - 2017 | Supervisor for Master of Architecture, Huaqiao University |
| 2006 - 2008 | Teaching Assistant, School of Architecture, Huaqiao University |

Representative Publications

Research Articles:

- [1] Zheng J. & Wu B. (2018). The Effect of Spatial Transformation: Remolding Macao's Urban Spatial Productivity in an Era of Post World Cultural Heritage, *Architectural Journal*, 598(07), 99-104. doi:CNKI:SUN:JZXB.0.2018-07-021.
(Included in China Urban Renewal and Development Report 2018-2019, edited by China Society of Urban Sciences)
- [2] Zheng J. (2019). The Cultural Reconstruction and the Dilemma of the Architectural Cultural Heritage Conservation in Macao's Post-era of World Cultural Heritage, *World Architecture*, 353(11), 44-49. doi:10.16414/j.wa.2019.11.012.
- [3] Zheng J., Li J., Liu G. & Fei Y. (2018). Macao's Inner Harbor Waterfront Revitalization Based on the Model of Functional Wetland Reclamation, *Chinese Landscape Architecture*, 34(07), 91-97. doi:CNKI:SUN:ZGYL.0.2018-07-017.
- [4] Zheng J. (2022). Development and Evolution of Macao Urban Industrial Space Based on the Perspective of Economic Transformation, *Journal of Urban and Regional Planning: Special Issue on Macao, 2022*: 44-57.
- [5] Zheng, L.; Chen, Y.; Yan, L.; Zheng, J. The Impact of High-Density Urban Wind Environments on the Distribution of COVID-19 Based on Machine Learning: A Case Study of Macau. *Buildings* 2023, 13, 1711. (SCIE, Q2, corresponding author)
- [6] He, J.; Chen, Y.; Zheng, L.; **Zheng, J.** Research on Wind Environment and Morphological Effects of High-Rise Buildings in Macau: An Example from the New Reclamation Area around Area Preta. *Int. J. Environ. Res. Public Health* 2023, 20, 4143. (SSCI&SCIE, Q1, corresponding author)
- [7] Yang, X.; Zheng, L.; Chen, Y.; Feng, J.; **Zheng, J.** Recognition of Damage Types of Chinese Gray-Brick Ancient Buildings Based on Machine Learning—Taking the Macau World Heritage Buffer Zone as an Example. *Atmosphere* 2023, 14, 346. (SCIE, Q2, corresponding author)
- [8] Zheng L, Chen Y, Jiang S, Song J and **Zheng J**(2023). Predicting the distribution of COVID-19 through CGAN—Taking Macau as an example. *Front. Big Data* 6:1008292. (ESCI, Q2,

corresponding author)

[9] Chen, Y.; Zheng, L.; Song, J.; Huang, L.; **Zheng, J.** Revealing the Impact of Urban Form on COVID-19 Based on Machine Learning: Taking Macau as an Example. **Sustainability** 2022, 14, 14341. (SCI&SSCI, Q2 , corresponding author)

[10] CHEN Yile, ZHENG Liang, ZHENG Jianyi. Parametric Landscape Sightline Analysis Method and its Application Research: Taking Macau as an Example[J]. **South Architecture**, 2023(1): 97-106. (CSCD, corresponding author)

[11] Zheng J., Zhao Y. & Zhang Q. (2018). Fractal Characteristics in Macao's Townscape based on the Three Elements of Plan-Analysis, **South Architecture**, 183(01), 110-116

[12] Zheng J., Fei Y. & Liu G. (2015). Node-axis Urban Renewal: St. Lazarus Parish Area, Macao, **Planners**,31(05), 66-72.

Books:

[1] Zheng J., Fei Y. (Ed(s)). (2018). Integration of Urban Revitalization and Tourist Routes Expansions in Macau, Nanjing: Southeast University Press.

[2] Zheng J. (2021). The Art of Tangjiawan traditional architecture, Guangzhou: Guangdong People's Publishing House.

China Patent for Invention

[1] Zheng Jianyi, Zhao Yunqiang. (2017). A kind of urban morphology analysis management-control method based on plane general layout three elements and fractal calculation, China, ZL201710252232.X.

Conference Proceedings:

[1] Research on Inclusive Design Strategy to Enhance Accessibility in Global Ageing: A Case Study of the Public Housing Wayfinding Design in Macau, UIA WORLD CONGRESS OF ARCHITECTS

COPENHAGEN 2023 (UIA 2023), Copenhagen, 2023

[2] East–west comparisons and Conzenian concepts: the case of traditional urban cores , 23rd International Seminal on Urban Form (ISUF), Nanjing, 2016

[3]Comparison of Urban Form based on different city walls between Quanzhou and Newcastle upon Tyne, 24th International Seminal on Urban Form (ISUF), Valencia, 2017

[4] Comparison analysis on typical historic cultural districts with AI machine learning technology-taking Portuguese and Macao districts as examples, 29th International Seminal on Urban Form (ISUF), ŁÓDŹ – KRAKÓW, 2022

Research Projects

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| 2014 - 2016 | PI, Research on the morphology of modern Macao residential regions influenced by ethnics group of Fujian-Guangdong, funded by National Natural Science Foundation of China (NSFC Project No.51308232) 主持完成國家自然科學基金項目 (NSFC)《閩粵族群影響下的澳門近代居住形態研究》(51308232) |
| 2021 – 今 | Co-PI of sub-project 3, A study on the Interaction and influence of Eastern and Western architectural cultures during the one-port only trade period in Guangzhou, funded by 2021 the special academic team project of unpopular unique knowledge of the National Social Science Fund of China (Project No. 21VJXT011) 2021 年度國家社科基金冷門絕學研究專項學術團隊項目“廣州一口通商時期東西方建築文化交互影響研究”子課題3 聯合負責人(編號 21VJXT011) |
| 2020 - 2021 | PI, Study on the buffer space of Macao spillover epidemic prevention based on the daily life circle of Zhuhai-Macao commuters , funded by Higher Education Fund Macao SAR (HSS-MUST-2020-9) 主持澳門特別行政區政府高等教育基金預防及應對重大傳染病研究專項 HSS-MUST-2020-9《基於珠澳通勤者日常生活圈的澳門外溢防疫緩衝空間研究》 |
| 2021/12–2021/2 | PI, Research on the optimization of accessibility service in the museums, funded by the Cultural Affairs Bureau, Macao SAR. 主持澳門文化局研究項目《博物館無障礙服務優化研究》 |
| 2018/1 – 2018/12 | PI, Research and Surveys on Spacial Environment of Schools in Macao 2018, funded by Education and Youth Development Bureau Macao SAR. |

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| | 主持完成澳門教青局《2018 澳門學校空間環境調查研究》 |
| 2016 - 2019 | PI, Analysis on morphological areas and urban conservation and regeneration modes for the old cities in southern Fujian, funded by Provincial Natural Science Foundation of Fujian (No. 2016J01238) 主持完成福建省自然科學基金面上項目《閩南舊城區城市形態區域化分析及其保護更新模式》(編號 2016J01238) |
| 2020 | Participant, Field survey and cultural study on Macao's traditional Chinese building Wei and Li, funded by the Cultural Affairs Bureau, Macao SAR. 參與澳門文化局項目《對全澳圍里進行記錄及其文化價值之研究工作》 |
| 2021 | Participant, Research on the ports of Macao's inner-harbor, funded by the Cultural Affairs Bureau, Macao SAR. 參與澳門文化局項目《澳門內港碼頭研究》 |

Awards

2021, First prize of the second LA Young Scholar Thesis Award, "Parametric Landscape Sight Analysis method and Its Application: A Case study of Macao" (corresponding author), hosted by the journal of Landscape Architecture.

2020, First prize of the concept design of barrier-free walking system in Mongha Municipal Park Macao, hosted by the Municipal Affairs Bureau (IAM) of the Macao Special Administrative Region (Macao SAR) and Architects Association of Macau.

Exhibition

The 9th Bi-City Biennale of Urbanism\Architecture (UABB) Qianhai Subvenue, Chief Planner for the theme exhibition area of Ocean-graphical literature