Jinda Qi

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EDUCATION

2016.07 – 2020.12	Doctor of Philosophy in Built Environment, University of New South Wales, Australia
2011.09 - 2014.07	Master of Landscape Architecture, Fujian Agriculture and Forestry University, China
2007.09 – 2011.07	Bachelor of Landscape Architecture, Jiangxi Agriculture University, China

CAREER HISTORY

2024.08 -	Assistant Professor in Landscape Architecture, Department of Architecture,
	National University of Singapore, Singapore
2024.02 - 2024.08	Lecturer in Landscape Architecture, School of Landscape Architecture, Lincoln
	University, New Zealand
2021.03 - 2024.02	Research Fellow, Department of Architecture, National University of Singapore,
	Singapore
2014.07 – 2015.12	Research Assistant, College of Landscape Architecture and Art, Fujian Agriculture
	and Forestry University, China

RESEARCH GRANTS

2024.04 - 2024.11	Design technology for a better urban living environment (PI)
2024.04 - 2024.11	Making Invisible Kelp Forests Visible in Lyttleton Harbour (Co–PI)
2022.09 –2024.05	Rural Ecological Civilization Construction in Henan Province under the Rural
	Revitalization Strategy (Co–PI)
2022.05 –2024.05	Ecological Conservation and High–Quality Development in Rural Areas of
	Henan (Co–PI)
2020.11 –2024.02	Assessment of the Visual Quality of Urban Landscapes in Health Promotion
	(Collaborator)
2019.05 –2019.10	Assessing the impact of solar photovoltaics and air conditioning waste heat on
	urban heat island effects (Collaborator)
2019.02 –2019.06	Urban Heat Amelioration Design Guide: Reducing Urban Heat at the Lot Scale
	in New Developments (Collaborator)

2016.07 –2018.06 Validating and improving the BASIX assessment tool for Low Carbon Dwellings (Collaborator)

PUBLICATIONS

- 1. **Qi, J.,** Lin, E. S., Tan, P. Y., Zhang, X., ... & Waykool, R. (2024). Applying 3D spatial metrics for landscape planning: Creating and measuring landscape scenarios by a point cloud–based approach. *Ecological Informatics*, 79, 102436.
- Zhang, X., Qi, J.*, Lin, E. S., Tan, P. Y., Ho, R., Sia, A., ... & Olszewska–Guizzo, A. (2024). Towards healthy cities: Modeling restorative potential of urban environments by coupling LiDAR–derived 3D metrics with panorama–based online survey. *Environmental Impact Assessment Review*, 106, 107497.
- 3. Zhang, X., Lin, E. S., Tan, P. Y., **Qi, J**., Ho, R., Sia, A., ... & Cao, Y. (2024). Beyond just green: Explaining and predicting restorative potential of urban landscapes using panorama–based metrics. Landscape and Urban Planning, 247.
- 4. **Qi, J.,** He, B*., Cao, Y., Dong, J., & Lin, E. S. (2023). Risk assessment of terrestrial protected areas to extreme wind hazards : a case study in Queensland, Australia. *Landscape and Urban Planning*, 240, 104888.
- Qi, J*., He, BJ. (2023). Urban Heat Mitigation Strategies. In: Cheshmehzangi, A., He, BJ., Sharifi, A., Matzarakis, A. (eds) Climate Change and Cooling Cities. Urban Sustainability. Springer, Singapore. (Book Chapter).
- 6. **Qi, J.,** Lin, E. S*., Tan, P. Y., Ho, R. C. M., Sia,... & Waykool, R. (2023) Representing the landscape visual quality of residential green spaces in Singapore with 3D spatial metrics, *Urban Forestry & Urban Greening*.
- 7. Wang, M., Liu, M., Zhang, D., **Qi, J.*,** ... & Tan, S. K. (2023). Assessing and optimizing the hydrological performance of Grey–Green infrastructure systems in response to climate change and non–stationary time series. *Water Research*, 232.
- 8. Wang, M., Yuan, H., Zhang, D., **Qi, J.*,** ...& Tan, S. K. (2023). Supply–demand measurement and spatial allocation of Sponge facilities for Sponge city construction. *Ecological Indicators*, 148, 110141.
- 9. Zhang, X., Lin, E. S., Tan, P. Y., **Qi, J.**, & Waykool, R. (2023). Assessment of visual quality of urban green spaces using image–based metrics derived from perceived sensory dimensions. *Environmental Impact Assessment Review*, 102.
- Zhang, X., Lin, E. S., Qi, J., & Tan, P. Y. (2023). Linking Image–based Metrics to 3D Model–based Metrics for Assessment of Visual Landscape Quality, *Journal of Digital Landscape Architecture*. 8, 167– 177.
- Yao, N., Gu, C., Qi, J., ...& Wang, H. (2023). Protecting Rural Large Old Trees with Multi–Scale Strategies: Integrating Spatial Analysis and the Contingent Valuation Method (CVM) for Socio–Cultural Value Assessment. *Forests*, 15, 18.

- Qi, J.*, Lin, E. S., Tan, P. Y., Ho, R. C. M., Sia,... & Waykool, R. (2022) Development and application of 3D spatial metrics using point clouds for landscape visual quality assessment, *Landscape and Urban Planning*, 228, 104585.
- 13. **Qi, J.*,** Ding, L., & Lim, S. (2022) A Decision–Making Framework to Support Urban Heat Mitigation by Local Governments, *Resources, Conservation & Recycling*, 184, 106420.
- 14. **Qi, J.*,** Ding, L., & Lim, S. (2022) Application of a decision–making framework for multi–objective optimisation of urban heat mitigation strategies, *Urban Climate*. 47, 101372.
- 15. He, B. J., Wang, J. S., Zhu, J., & **Qi, J.** (2022). Beating the urban heat: Situation, background, impacts and the way forward in China. *Renewable and* Sustainable *Energy Reviews*, 161, 112350.
- 16. **Qi, J.*,** Ding, L., & Lim, S. (2021). Toward cool cities and communities: A sensitivity analysis method to identify the key planning and design variables for urban heat mitigation techniques. *Sustainable Cities and Society*, 75, 103377.
- 17. Li, W., **Qi, J.***, Huang, S., Fu, W., Zhong, L., & He, B. J. (2021). A pressure–state–response framework for the sustainability analysis of water national parks in China. *Ecological Indicators*, 131, 108127.
- Huang, S., Qi, J.*, Li, W., Dong, J., & van den Bosch, C. K. (2021). The Contribution to Stress Recovery and Attention Restoration Potential of Exposure to Urban Green Spaces in Low–Density Residential Areas. *IJERPH*, 18(16), 8713.
- He, B. J., Zhao, D., Xiong, K., Qi, J., Ulpiani, G., Pignatta, G., ... & Jones, P. (2021). A Framework for Addressing Urban Heat Challenges and Associated Adaptive Behaviour by the Public and the Issue of Willingness to Pay for Heat Resilient Infrastructure in Chongqing, China. *Sustainable Cities and Society*, 103361.
- 20. **Qi, J.*,** Ding, L., & Lim, S. (2020). Planning for cooler cities: A framework to support the selection of urban heat mitigation techniques. *Journal of cleaner production*, 275, 122903.
- 21. **Qi, J.*,** Ding, L., & Lim, S. (2020). Ontology–based knowledge representation of urban heat island mitigation strategies. *Sustainable Cities and Society*, 52, 101875.
- 22. Mao, Y., **Qi, J.*,** & He, B. J. (2020). Impact of the heritage building façade in small–scale public spaces on human activity: Based on spatial analysis. *Environmental Impact Assessment Review*, 85, 106457.
- 23. **Qi, J.*,** He, B. J., Wang, M., Zhu, J., & Fu, W. C. (2019). Do grey infrastructures always elevate urban temperature? No, utilizing grey infrastructures to mitigate urban heat island effects. *Sustainable Cities and Society*, 46, 101392.
- 24. He, B., Zhu, J.*, Zhao, D., Gou, Z., **Qi, J.**, & Wang, J. (2019). Co–benefits Approach: Opportunities for Implementing Sponge City and Urban Heat Island Mitigation. *Land use policy*, 86, 147–157.
- 25. Wang, M*., Zhang, D., Lou, S., Hou, Q., Liu, Y., Cheng, Y., **Qi, J.,** and Tan, S.K., (2019). Assessing hydrological effects of bioretention cells for urban stormwater runoff in response to climatic changes. *Water*, 11(5), p.997.
- 26. Fu, W., Chen, Z., Zhu, Z., Liu, Q., van den Bosch, C., **Qi, J.**, ... & Dong, J.* (2018). Spatial and Temporal Variations of Six Criteria Air Pollutants in Fujian Province, China. *IJERPH*, 15(12), 2846.

- Wang, M*., Zhang, D., Li, Y., Hou, Q., Yu, Y., Qi, J., ... & Cheng, Y. (2018). Effect of a Submerged Zone and Carbon Source on Nutrient and Metal Removal for Stormwater by Bioretention Cells. *Water*, 10(11), 1629.
- Fu, W., Liu, Q., Konijnendijk van den Bosch, C., Chen, Z., Zhu, Z., Qi, J., ... & Dong, J.* (2018). Long– Term Atmospheric Visibility Trends and Their Relations to Socioeconomic Factors in Xiamen City, China, *IJERPH*, 15(10).
- 29. Li, W., He, B. J., **Qi, J.**, & Dong, J.* (2018). Water Conservation Scenic Spots in China: Developing the Tourism Potential of Hydraulic Projects and Water Resources. *Sustainability*, 10(12), 4509.
- Huang, S.,, Qi, J., Chen, Z., Zhu, Z., & Dong, J.* (2018). Does Adding Local Tree Elements into Dwellings Enhance Individuals' Homesickness? Scenario–Visualisation for Developing Sustainable Rural Landscapes. Sustainability, 10, 3943.
- Fu, W., Chen, Z., Zhu, Z., Liu, Q., Qi, J., Dang, E., ... & Dong, J.* (2018). Long–term atmospheric visibility trends and characteristics of 31 provincial capital cities in China during 1957–2016. *Atmosphere*, 9(8), 318.
- Fu, W. C., Qi, J., Chen, Z, R., Zhu, Z. P., Dong, J. W.*, & Ding, G. C. (2016). Baili Rhododendron National Forest Park Tour Route Selection during Blooming Period. Journal *of Forest and Environment*, 2016(1),117–123.
- Fu, W. C., Qi, J., ...& Zhen, Y. (2016). Change characteristics of particulate matter concentration during the blooming period of Rhododendron azalea in Baili Rhododendron Park. *Journal of Northwest Forestry University*, 2016, 288–294.
- Qi, J., Fu, W. C., Li, W., Lin, S. Y., & Dong, J. W.* (2015). Landscape Visual Evaluation of Qishan National Forest Park Based on GIS and SBE Method. Journal *of Northwest Forestry University*, 2015130(2), 245–250.

ACADEMIC SERVICES

Editorial Board of Journals

- Humanities and Social Sciences Communications
- Heliyon
- Frontiers in Ecology and Evolution
- Frontiers in Environmental Science
- Frontiers in Earth Science

Guest Editor

- Remote Sensing
- Forests
- Buildings
- Sustainability

- Smart Cities
- Frontiers in Forests and Global Change
- Frontiers in Climate

Reviewer of Research Grants

• National Research, Development and Innovation Office (NRDI), Hungary

Competition panel

- International Solar Building Design Competition 2021
- International Solar Building Design Competition 2020
- International Solar Building Design Competition 2019

Reviewer for International Journals and Publications

- Nature Cities
- Nature Communications
- Landscape and Urban Planning
- Water Research
- Sustainable Cities and Society
- Building and Environment
- Science of the Total Environment
- Urban Forestry & Urban Greening
- Environmental Impact Assessment Review
- Ecological Indicators
- Journal of Cleaner Production
- Humanities and Social Sciences Communications
- npj Urban Sustainability
- Journal of Environmental Management
- Biological Conservation
- Urban Climate
- Artificial Intelligence Review
- Scientific Reports
- Environmental Science and Pollution Research
- Wetlands
- Arabian Journal of Geosciences
- Stochastic Environmental Research and Risk Assessment
- Journal of Urban Management
- Ecosphere
- Heliyon
- Utilities Policy
- International Journal of Geoheritage and Parks

- Urban Science
- Forests
- Sustainability
- Remote Sensing
- Buildings
- Animals
- Minerals
- Energies
- ISPRS International Journal of Geo-Information
- Water
- Land
- Frontiers in Forests and Global Change
- Frontiers in Climate
- Frontiers in Environmental Science
- Frontiers in Earth Science
- Frontiers in Ecology and Evolution
- Frontiers in Public Health

TEACHING EXPERIENCES

- GeoDesign, National University of Singapore, Singapore
- Innovative Design, Lincoln University, New Zealand
- Planting Design and Management, Lincoln University, New Zealand
- Built Environment Vision to Reality, University of New South Wales, Australia
- Construction and Property Economics, University of New South Wales, Australia