



Name:

Xu Haiyun

Title:

Associate Professor

School of Architecture and Urban Planning, Beijing University of Civil Engineering and Architecture, China

Guest Research Fellow

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Scientific Field:

Cultural Landscape Planning; Cultural Ecosystem Services; Human - Environment interaction; Landscape Perception; Public Participatory and Digital Approaches

Research Interests:

Haiyun Xu' s research focuses on human - environment relationships in urban and cultural landscapes, with particular emphasis on cultural ecosystem services (CES), landscape values, public perception and participatory approaches.

Her research investigates how people perceive, experience and value landscapes, and how such knowledge can contribute to sustainable landscape planning and management. She combines GIS, participatory GIS (PPGIS), social media data analysis and digital approaches to explore

landscape values, everyday experiences and public engagement in changing urban and cultural landscapes. Her research interests include:

- Cultural ecosystem services and landscape values
- Social - ecological relationships in landscapes
- Landscape perception and place attachment
- Participatory GIS (PPGIS) and public participation
- Digital approaches for landscape research
- Urban green infrastructure and sustainable urban transformation
- Cultural landscapes and heritage management

Research Projects:

- 2024-Present: Study on the Spatial Differentiation and Regulation Mechanism of Nighttime Cultural Ecosystem Services in Urban Parks: A Case Study of Beijing, funded by the National Natural Science Foundation of China (NSFC) – Young Scientists Fund.
- 2023-2026: Research on the Mechanisms and Patterns of Local Integration of Reservoir Relocated Migrants, funded by the National Natural Science Foundation of China (NSFC).
- 2022-2024: Research on Interdisciplinary Construction and Graduate Training Model Oriented to Urban Complex System Science, funded by Beijing University of Civil Engineering and Architecture (BUCEA).
- 2021-2023: Research on Greenway Renewal Optimization in the Capital Core Functional Area of Beijing Based on Public Participatory Ecosystem Services Supply and Demand Analysis, funded by Beijing Overseas High-level Talent Project.
- 2026-Present: The "Belt and Road" Joint Laboratory on Architectural Heritage Project (Project No. Z25131), funded by Beijing University of Civil Engineering and Architecture (BUCEA).
- 2015: HERCULES: Sustainable Futures for Europe's Heritage in Cultural Landscapes: Tools for Understanding, Managing, and Protecting Landscape Functions and Values, funded by the

European Union's Seventh Framework Programme for research, technological development and demonstration (FP7).

Teaching Experience:

- Landscape Planning
- Urban Green Space Planning
- Cultural Landscape Studies
- GIS and Spatial Analysis
- Sustainable Urban Development
- Participatory Planning Methods

Publications:

Publications in Scientific Journals

1. You, W., Xu, H., Ren, M., Duan, J., He, D., Kizos, T. (2025) Assessing spatial differences of perceptions of cultural ecosystem services for coastal cultural landscape management: A case study from rural and urban areas in Quanzhou, China, *Journal of Environmental Management*, 395, 127674.
2. You, W., Xu, H., Ren, M., Duan, J., Zhang, R., Kizos, T. (2026) Mapping multiple stakeholder-perceived cultural ecosystem services in coastal landscapes along the Maritime Silk Road, *Landscape Research*, 51, 168-188.
3. Xu, H., Zhao, G., Fagerholm, N., Primdahl, J., Plieninger, T. (2020) Participatory mapping of cultural ecosystem services for cultural landscape corridor planning: A case study of the Silk Roads Corridor in China, *Journal of Environmental Management*, 264, 110458.
4. Xu, H., Miao, M., Zhu, F., Ding, Q. (2024) The role of local officials in promoting public participation during local urban planning processes: Evidence from Chinese cities, *Land Use Policy*, 141, 107108.
5. Xu, H., Zhou, Y., You, W., Alhassan, A.M., Almahmood, M., Sun, Z. (2026) Mapping hot routes and perceived landscape values of "City

Walk” in Beijing’ s historical neighbourhoods in the social media era, *Humanities and Social Sciences Communications*, 13, 760.

6. Xu, H., Duan, J., Ren, M., Zhao, G., Liu, Z. (2025) Revealing youth-perceived cultural ecosystem services for high-density urban green space management: a deep learning spatial analysis of social media photographs from central Beijing, *Landscape Ecology*, 40, 119.

7. Xu, H., Zhao, G., Liu, Y., Miao, M. (2023) Using social media camping data for evaluating, quantifying, and understanding recreational ecosystem services in post-COVID-19 megacities: A case study from Beijing, *Forests*, 14, 1151.

8. Li, J., Xu, H., Ren, M., Duan, J., You, W., Zhou, Y. (2024) Knowledge Mapping of Cultural Ecosystem Services Applied on Blue-Green Infrastructure—A Scientometric Review with CiteSpace, *Forests*, 15, 1736.

9. Xu, H., Fu, F. (2022) What is the effect of cultural greenway projects in high-density urban municipalities? Assessing the public living desire near the cultural greenway in central Beijing, *International Journal of Environmental Research and Public Health*, 19, 2147.

10. Xu, H., Plieninger, T., Primdahl, J. (2019) A systematic comparison of cultural and ecological landscape corridors in Europe, *Land*, 8, 41.

11. Xi, X., Xu, H., Zhao, G., Zhao, Q. (2021) Making rural micro-regeneration strategies based on resident perceptions and preferences for traditional village conservation and development: The case of Huangshan village, China, *Land*, 10, 718.

12. Xu, H., Zhao, G., Plieninger, T., Primdahl, J. (2019) What difference does public participation make? An alternative futures assessment based on the development preferences for cultural landscape corridor planning during Silk Road area sustainable development in China, *Sustainability*, 11, 6525.

13. Xu, H., Zhao, G. (2021) Assessing the value of urban green infrastructure ecosystem services for high-density urban management and development: Case from the capital core area of Beijing, China, *Sustainability*, 13, 12115.

14. Duan, J., Qiu, T., Xu, H., Lu, Q., Liu, Y., Liu, Z., Guan, W. (2026) Landscape Preferences for Recreational Ecosystem Services in Urban Parks via Combining Multiple Social Media Data, *Landscape Architecture Frontiers*, 14, 260010.
15. Wen, C., Xu, H., Plieninger, T. (2022) Intangible bonds: Cultural ecosystem services and landscape practices, *Landscape Architecture Frontiers*, 10, 4–7.
16. Wen, C., Cha, J., Xu, L., Xu, H. (2022) Spatial potential of recreational services in western Hubei region in light of the “all-for-one tourism” development—A machine learning approach based on ensemble model, *Landscape Architecture Frontiers*, 10, 8–31.
17. Plieninger, T., Guo, T., Xu, H. (2022) Development of Cultural Ecosystem Services Contributes to a Plural Perspective for Human–Nature Studies—Interview With Tobias Plieninger, *Landscape Architecture Frontiers*, 10.
18. Zhang, L., Xu, H., Pan, J. (2023) Investigating the relationship between landscape design types and human thermal comfort: Case study of Beijing Olympic Forest Park, *Sustainability*, 15, 2969.
19. Zhou, Y., Chen, Z., Li, W., Chen, S., Xu, H., Zhou, Z. (2023) Impacting factors and sources of perceived stress by home-quarantined residents in Shanghai during COVID-19 epidemic, *BMC Public Health*, 23, 780.
20. Xu, H., Liu, L., Ding, P. (2021) Building climate resilient city through multiple scale cooperative planning: experiences from Copenhagen, *IOP Conference Series: Materials Science and Engineering*, 1203, 032063.
21. Xu, H., Plieninger, T., Primdahl, J. (2018) Participatory CES assessment for cultural landscape corridor planning: A bridge for public attitude prediction and negotiation, 55th IFLA International Federation of Landscape Architects World Congress Proceeding.
22. Xu, H. (2017) Evaluation and mapping of cultural ecosystem service for cultural landscape corridor by PPGIS of residents, *WMCAUS World Multidisciplinary Civil Engineering–Architecture–Urban Planning Symposium*.

23. Xu, H., Plieninger, T., Primdahl, J. (2017) Assessment and mapping of cultural ecosystem service for the heritage corridor planning by PPGIS of residents, IALE International Association for Landscape Ecology 2017 European Congress Proceeding.
24. Xu, H., Plieninger, T., Primdahl, J. (2016) Systematic review of green corridor development and management in Europe, 5th Fabos Landscape and Greenway planning Conference proceeding.
25. Xu, H., Xu, F. (2014) Ecological restoration design for urban river landscape degradation: A case of Yuruhax River, Hotan, Xinjiang, China, WIT Transactions on the Built Environment.
26. Xu, H., Xu, F. (2013) The Ancient Tea-horse Road: Conservation strategies for the development of rural cultural landscape, 50th IFLA International Federation of Landscape Architects World Congress Proceeding.
27. Xu, H., Liu, L., Ding, P., Müller, M.S. (2022) Practice of ecosystem-based adaptation in multi-scale collaborative stormwater management for climate-resilient cities: A case study of Copenhagen, Landscape Architecture, 29, 53-66. (in Chinese)
28. Xu, H., Xu, F. (2020) Conservation practice of the Greek historic garden “National Garden of Athens”, Ancient Architecture and Garden Technology. (in Chinese)
29. Xu, H., Xu, F. (2012) Construction of cultural landscape for the heritage corridor of the Ya'an section of the Ancient Tea-Horse Road, Chinese Culture Forum, 100-105. (in Chinese)
30. Xu, H. (2010) Investigation on woody plant biodiversity in parks of Chengdu, Guangdong Landscape Architecture. (in Chinese)

Books

- Xu, H. (2023) Envisioning public participation in landscape corridor, Frontier Scientific Publishing, Singapore.