Yuhan Xu

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EDUCATION

Southeast University, China	M.S. Landscape Architecture	90.68/100	09/2022-Present
Southeast University, China	B.S. Landscape Architecture	89.29/100	09/2017-06/2022

PUBLICATIONS

(Accepted)

[1] **Xu, Y.**, & Tang, J. (2024). Examining the rationality of Giant Panda National Park's zoning designations and management measures for habitat conservation: Insights from interpretable machine learning methods. *Science of The Total Environment (JCR Q1, IF=9.8)*, 170955.

[2] **Xu, Y.**, Ma, X., Pan, M., & Jiang, K. (2022). A two-stage simulation approach of urban transport emission evaluation towards carbon peak: A case study in Suzhou, China. *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences (EI retrieval)*, 10, 285-292.

[3] Rui, J., & **Xu, Y.** (2024). Beyond built environment: Unveiling the interplay of streetscape perceptions and cycling behavior. *Sustainable Cities and Society (JCR Q1, IF=11.7)*, 109, 105525.

[4] Yuan, Y., Gan, Y., **Xu, Y.**, Xie, Q., Shen, Y., & Yin, Y. (2022). SWMM-based assessment of urban mountain stormwater management effects under different LID scenarios. *Water (JCR Q2, IF=3.4)*, 14(1), 78.

(Work in progress)

[5] **Xu, Y.**, & Tang, J. Urban edges, conservation frontiers: Buffer zone planning and management around urban protected areas - Insights from Chinese national-level scenic areas. *Landscape and Urban Planning*, Under Review.

[6] **Xu, Y.**, & Ma, X. A study of street vitality based on visual and auditory perception: A case study of historic urban area in Guangzhou, China. *The International Review for Spatial Planning and Sustainable Development*, Under Review.

[7] **Xu, Y.**, & Yang, T. Can we have it all? Evaluating eco-environmental and socio-economic trade-offs in the Guangdong-Hong Kong-Macao Greater Bay Area, China. In preparation.

[8] Ma, X., **Xu, Y. (Corresponding Author)**, Pan, M., & Jiang, K. Rethinking public service facility distribution and management strategies with the consideration of carbon peak - Insights from Suzhou, China. *Journal of Cleaner Production*, Under Review (Major Revision).

[9] Rui, J., **Xu, Y.**, & Liu X. Destigmatizing urban villages by examining their attractiveness: Quantification evidence from Shenzhen. *Habitat International*, Under Review (Major Revision).

RESEARCH EXPERIENCES

➢ **The University of Hong Kong** 04/2024-Present

Research Assistant, Department of Urban Planning and Design

Advisor: Prof. Tianren Yang

- Calculated ecosystem service demand utilizing high-resolution location-based service data

- Utilized the production possibility frontiers to explore the trade-offs between eco-environmental and socio-economic well-being production in the GBA [7]

➢ **Southeast University** 09/2022-Present

Graduate researcher, Department of Landscape Architecture

Advisor: Prof. Jun Tang

- Integrated species distribution models with interpretable machine learning methods, i.e., PDPs and SHAP, to analyze the effects of environmental and anthropogenic factors on giant panda habitat distribution [1]
- Contributed to two general plans for scenic areas, gaining insights into the conflicts between environmental conservation and economic development [5]
- Master Thesis in Preparation: Proposed a universal land assessment framework for the peripheral zones of urban scenic areas based on ecosystem services

➢ **Southeast University** 12/2021-06/2022

Undergraduate researcher, Department of Urban Planning & Department of Landscape Architecture

Advisor: Prof. Xiaosu Ma & Prof. Yangyang Yuan

- Identified the uncertainties in reaching transport-related carbon peak through a two-stage simulation [2]
- Constructed a regression model between built environment and carbon emission intensity using XGBoost [8]
- Evaluated urban street vitality quality based on pedestrians' visual and auditory perception [6]
- Compared the runoff control effects of two Low Impact Development system schemes [4]

CONFERENCE PRESENTATIONS

➢ **60th World Congress of the International Federation of Landscape Architecture (Istanbul, Türkiye, 2024)**
- Deciphering Anthropogenic Influences on Habitats: Implications from Interpretable Machine Learning

➢ **International Conference on Spatial Planning and Sustainable Development (Kanazawa, Japan, 2023)**
- A Study of Street Vitality Based on Visual and Auditory Perception: A Case Study of Historic Urban Area in Guangzhou, China

HONORS AND GRANTS

Qi Kang Scholarship and Grant (CNY 5,000)	2023-2024
Second Prize | Chinese University Data-driven Innovation Competition (CNY 10,000)	2022
Southeast University President Scholarship (CNY 5,000)	2018-2019

SKILLS

Design	Rhinoceros (basic Grasshopper), Photoshop, Indesign, Lumion
Quantitative analysis	Spatial analysis (ArcGISPro, Arcpy), Python (pandas, geopandas, machine learning, basic deep learning)
Languages	Native Mandarin Chinese, Fluent English (TOEFL iBT - Score: 101/120, GRE General Test - Score: 326+4.5)