

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

- **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*, 170955.
- Rui, J., & **Xu, Y.** (2024). Beyond built environment: Unveiling the interplay of streetscape perceptions and cycling behavior. *Sustainable Cities and Society*, 109, 105525.
- **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*, 10, 285-292.
- 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*, 14(1), 78.

RESEARCH EXPERIENCE

The University of Hong Kong 04/2024-Present

Research Assistant, Department of Urban Planning and Design

Advisor: Dr. Tianren Yang

- Calculated ecosystem service demand using high-resolution location-based service data
- Applied k-means clustering to categorize GBA regions based on ecosystem service supply-demand ratio and socioeconomic characteristics
- Utilized the production possibility frontier concept to understand the tradeoffs between eco-environmental well-being and socio-economic well-being performance in the GBA

ONGOING PROJECTS

- Rui, J., **Xu, Y.,** & Liu X. Destigmatizing urban villages by examining their attractiveness: Quantification evidence from Shenzhen. *Habitat International*, Major Revision.
- 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*, Major Revision.

- **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.
- **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.
- **Xu, Y., & Yang, T.** Can we have it all? Evaluating environmental and socioeconomic tradeoffs in the Guangdong-Hong Kong-Macao Greater Bay Area, China. In preparation.
- **Master Thesis:** A study on land assessment in the peripheral zones of urban scenic areas based on ecosystem services. In preparation.

CONFERENCE PRESENTATIONS

- **60th World Congress of the International Federation of Landscape Architecture (Istanbul, Türkiye, 4-6 September 2024)**
 - Deciphering Anthropogenic Influences on Habitats: Implications from Interpretable Machine Learning (Accepted: Oral Presentation)
- **International Conference 2023 on Spatial Planning and Sustainable Development (Kanazawa, Japan, 25-28 August 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)	2024
Second Prize Chinese University Data-driven Innovation Competition (CNY 10,000)	2022
Southeast University President Scholarship (CNY 5,000)	2018-2019

SKILLS

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