

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

Research Interests

Landscape and urban planning, sustainable development, urban ecology, machine learning application

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.
- **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.
- **Rui, J., & Xu, Y.** (2024). Beyond built environment: Unveiling the interplay of streetscape perceptions and cycling behavior. *Sustainable Cities and Society*, 109, 105525.
- **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 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 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.
 - **In Preparation:** **Xu, Y., & Yang, T.** Can we have it all? Evaluating environmental and socioeconomic tradeoffs in the Guangdong-Hong Kong-Macao Greater Bay Area, China.
- **Southeast University** 09/2022-Present
Graduate researcher, Department of Landscape Architecture
Advisor: Prof. Jun Tang
 - Contributed to two comprehensive plans for scenic areas, a type of protected areas, in China, gaining insights into the conflicts between environmental conservation and economic development.
 - **Under Review:** **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*.

- Proposed a universal land assessment framework for the peripheral zones of urban scenic areas.
- **Master Thesis in Preparation:** A study on land assessment in the peripheral zones of urban scenic areas based on ecosystem services.

➤ **Southeast University**

12/2021-06/2022

Undergraduate researcher, Department of Urban Planning

Advisor: Prof. Xiaosu Ma

- Identified the impact of land use structure and public service facility distribution on transport-related carbon emissions through a two-stage simulation approach and correlation analysis utilizing XGBoost.
 - **Under Review (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*.
 - Evaluated urban street vitality quality based on pedestrians' visual and auditory perception using semantic segmentation and expert assessment.
 - **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 (Major Revision):** Rui, J., **Xu, Y.**, & Liu X. Destigmatizing urban villages by examining their attractiveness: Quantification evidence from Shenzhen. *Habitat International*.

CONFERENCE PRESENTATIONS

- **60th World Congress of the International Federation of Landscape Architecture (Istanbul, Türkiye)**
- Deciphering Anthropogenic Influences on Habitats: Implications from Interpretable Machine Learning (Accepted: Oral Presentation)
- **International Conference 2023 on Spatial Planning and Sustainable Development (Kanazawa, Japan)**
- 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)