

XINGHAN CHEN

+86 180 1859 2284

2230078@tongji.edu.cn

Keywords

Urban form; Spatial equity; Urban science; Digital humanities;
Computer vision; Deep learning; Urban big data; Spatial analysis

Publications

Submitted Journal Articles

Chen XH, Zeng XC, Li L, et al. (2024) Measuring global cityscapes: Constructing a genealogy for the cityscape-culture nexus. *Nature Cities*. Submitted in September, 2024.

Peer-Reviewed Journal Articles

Chen XH, Ding XW, Ye Y. (2024) Mapping sense of place as a measurable urban identity: Using Street View images and machine learning to identify building façade materials. *Environment and Planning B: Urban Analytics and City Science*. (DOI: 10.1177/23998083241279992)

Chen XH, Yu HT, Xiong RJ, et al. (2024) Construction of an analytical framework for spatial indicator of Chinese classical gardens based on space syntax and machine learning. *Landscape Architecture* 31(3): 123-131. (DOI: 10.3724/j.fjyl.202305080216)

Ye Y, Zhang HL, **Chen XH**, et al. (2024) Precise urban regeneration via digital urban design: Using Lujiazui water loop project as the case. *The Architect* 3(2): 31-38. (DOI: 10.12285/jzs.20240403003)

Conference Papers

Chen XH, Ye Y. (2024) Intelligent redelineation and feature analysis of urban historical areas. *The 64th Association of Collegiate Schools of Planning (ACSP)*. Seattle, America. (Accepted)

Chen XH, Zhang YP, Ye Y. (2024) Assisting refined urban management: Building an evaluation framework of data mapping rate towards digital twin city platforms. *The 6th International Conference on Computational Design and Robotic Fabrication (CDRF)*. Shanghai, China.

Chen XH, Ding XW, He HY, et al. (2024) Measuring sense of place as an unmeasurable urban environment: Using Street View images and CNN to detect building façade materials. *The 28th International Conference Association People-environment Studies (IAPS)*. Barcelona, Spain.

Chen XH, Yu HT, Zhang HL, et al. (2023) Evaluating and optimizing the functional composition of community centres: A data-informed approach assisting 15-minute community life circle. *The 30th International Seminar on Urban Form (ISUF)*. Belgrade, Serbia.

Chen XH, Kang SZ, Huang CC, et al. (2023) A human-oriented exploration of data-informed urban design: A case study in Shanghai. *The 18th International Conference on Computational Urban Planning and Urban Management (CUPUM)*. Montreal, Canada.

Education

Tongji University Shanghai, China
M.S. Candidate in the College of Architecture and Urban Planning [GPA: **4.80/5.00**, Rank: **1/67**] Mar. 2025
Thesis: “Measuring global cityscapes: Constructing a genealogy for the cityscape-culture nexus”
Advised by Yu Ye

Tongji University Shanghai, China
B.Eng. in the College of Architecture and Urban Planning [GPA: 4.62/5.00] Jun. 2022
Graduated with Honor: Shanghai Outstanding Graduate Award, 2022 (**Top 1**)

Research Experience

Tongji University / Computational Urban Design Lab Shanghai, China
Research Assistant Sep. 2022--Present
PI: Yu Ye, Associate Professor of Urban Design
Research focuses on quantitative urban morphology, urban equity, and computational urban design.
As the first author, published two peer-reviewed papers, submitted one manuscript to *Nature Cities*, and presented at five leading academic conferences within two years.
Skilled in ArcGIS, Python, R, Git, SPSS, Gephi, Figma, Rhino, etc.

Major Awards

2022-2023	Merit Master's Student Scholarship, Tongji University
2022	Shanghai Outstanding Graduate Award (Top 2)
2022	Outstanding Graduation Design Award, Tongji University
2022	Second Prize, ByteDance Game-Dev University Challenge (Top 2)
2020-2021	Tianxiang Scholarship (Top 2)
2020-2021	Social Activity Scholarship, Tongji University
2020-2021	Merit Student, Tongji University
2019-2020	National Scholarship (Top 1)
2019-2020	Merit Student, Tongji University
2019	Jia Zhaoye International Exchange Scholarship, Tongji University
2019	Merit Student, The 4th Global Grand Challenges Summit
2018-2019	Second Prize Scholarship, Tongji University
2018-2019	Outstanding Student Leader, Tongji University

For more detailed information, please visit my personal website: <https://xinghanchen1999.github.io/>