

XINGHAN CHEN

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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
Advised by Dr. 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**)

Keywords

Urban morphology; Spatial inequality; Computer vision; Machine learning; Urban big data

Publications

Manuscript in Review

Chen XH, Zeng XC, Li L, et al. (2024) Measuring global cityscapes: Constructing a genealogy for the cityscape-culture nexus. *Nature Cities*. (Sent for peer review in December 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. (In Chinese, 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* 45(2): 31-38. (In Chinese, DOI: 10.12285/jzs.20240403003)

Conference Presentation

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

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. (WOS:001297756000017)

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.

Research and Professional 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 top-tier academic conferences within two years.

Skilled in ArcGIS, Python, Git, R, SPSS, Gephi, Figma, Rhino, etc.

Reviewer for *Environment and Planning B: Urban Analytics and City Science*.

Shanghai Tongji Urban Planning and Design Institute Co., Ltd.	Shanghai, China
Urban Design Intern	Sep. 2023--Sep. 2024

Participated in urban design projects in Shanghai, Chengdu, Zhejiang, and Hubei. Responsibilities included data analysis, design, report writing, and compiling urban design guidelines.

Major Awards

2023-2024	National Scholarship (Top 1)
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

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<https://xinghanchen1999.github.io/>