

# XINGHAN CHEN

+86 180 1859 2284

2230078@tongji.edu.cn

## Education

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**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

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

## Publications

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### Submitted Articles

**Chen XH**, Zeng XC, Li L, et al. (2024) Measuring global cityscapes: Constructing a genealogy for the cityscape-culture nexus. *Nature Cities*. Submitted September 6, 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 64<sup>th</sup> 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 6<sup>th</sup> 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 28<sup>th</sup> 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 30<sup>th</sup> 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 18<sup>th</sup> International Conference on Computational Urban Planning and Urban Management (CUPUM)*. Montreal, Canada.

## Research Experience

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**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.

## Major Awards

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<b>2023-2024</b>	<b>National Scholarship (Top 1)</b>
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
<b>2019-2020</b>	<b>National Scholarship (Top 1)</b>
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 website: <https://xinghanchen1999.github.io/>