

# Wenjing Gong

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## EDUCATION

- 2024 - **Ph.D. Student, Urban and Regional Science**  
Texas A&M University, College Station, USA  
Advisor: Dr. Xinyue Ye
- 2019 - 2022 **M.E., Architecture (Urban Study)**  
Tongji University, Shanghai, China  
GPA: 88.5/100 (Entrance through the exam-free recommendation program)
- 2019 **Visiting Student, Graduate School of Architecture, Planning and Preservation**  
Columbia University, New York, USA
- 2014 - 2019 **B.E., Architecture**  
Shandong University of Science & Technology, Qingdao, China  
GPA: 90.5/100 (Rank: 1/60 each year)

## ACADEMIC & PROFESSIONAL EMPLOYMENT

- 2024 - **Research Assistant**  
Advisor: Dr. Xinyue Ye, Center for Geospatial Sciences, Applications and Technology,  
Texas A&M University, College Station, USA
- 2022 - 2024 **Designer and Planner**  
Architecture Design & Research Institute of Tongji University, Shanghai, China
- 2020 **Teaching Assistant**  
Department of Urban Planning, Tongji University, Shanghai, China

## RESEARCH INTERESTS

- Urban Analytics, GIScience, GeoAI, Urban Planning
- Transportation, Travel Behavior, Human Mobility
- Climate Resilience, Public Health

## PEER-REVIEWED PUBLICATIONS

- 2024 **Gong, W.**, Rui, J., Li, T., 2024. Deciphering Urban Bike-Sharing Patterns: An In-depth Analysis of Natural Environment and Visual Quality in New York's Citi Bike System. *Journal of Transport Geography* 115, 103799. <https://doi.org/10.1016/j.jtrangeo.2024.103799>
- 2023 **Gong, W.**, Huang, X., White, M., Langenheim, N., 2023. Walkability Perceptions and Gender Differences in Urban Fringe New Towns: A Case Study of Shanghai. *Land* 12, 1339. <https://doi.org/10.3390/land12071339>

### Selected Under Review/Working Papers:

- 2024 **Gong, W.**, Li, S., Adkison, D., Ye, X., Lee, C., Li, N., 2024. Cyber Victimization in Hybrid Space: An Analysis of Employment Scams Using Natural Language Processing and Machine Learning Models (Under revision in *Journal of Crime and Justice*)
- 2024 Ye, X., Li, S., **Gong, W.\***, Li, X., Li, X., Dadashova, B., Li, W., Du, J., Wu, J., 2024. Street view imagery in traffic crash and road safety analysis: A review (Submitted to *Applied Spatial Analysis and Policy*)
- 2024 **Gong, W.**, Yang, Y., Zhang, W., Ye, X., Huang, X., 2024. Integrating high-resolution simulations and transformer network predictions for mitigating human heat stress: A digital twin of a Texas campus (Working paper)

## PRESENTATIONS

### Conferences

- 2024 **Gong, W.** Yang, Y., Zhang, W., Ye, X., Huang, X. Integrating high-resolution simulations and transformer network predictions for mitigating human heat stress: A digital twin of a Texas campus. *2024 Texas Weather Conference*, November 9, 2024, College Station, Texas, USA (Will present orally).
- 2024 **Gong, W.** Simulating and Predicting Spatial-Temporal Human Outdoor Heat Exposure: A Case Study on a Texas Campus. *The 2024 Symposium on Spatiotemporal Data Science: GeoAI for Social Sciences*, July 24, 2024, Virtual (Abstract accepted).

### Workshops

- 2022 Gu, J., **Gong, W.**, Zhang, X. Analysis of the Spatial Distribution of Express Courier Stations and Assessment of Site Selection Effectiveness. *DigitalFUTURES 12<sup>th</sup> Summer Workshops*, July 2, 2022, Virtual.
- 2019 **Gong, W.**, Huang, H., Zhang, X. Undoing Sprawl: Urban Agriculture as a Social Innovation. *Resizing the Urban Form in the Era of "Negative Population Growth" Workshop*, Columbia University, December 9, 2019, New York.

## AWARDS & HONORS

- 2019 - 2022 Academic Scholarship covering all tuition fees
- 2014 - 2019 First-class Scholarships in academic performance (5%, **9 times**)
- 2014 - 2019 First-class Corporate Scholarships (5%, **2 times**)
- 2019 "Outstanding Graduate" of Shandong Province (5%)
- 2019 "Outstanding Student" in Science, Technology, and Innovation at university (5%)
- 2018 SINO-JAPAN Art & Design Exchange Exhibition, Gold Award
- 2018 National Green Building Design Competition - Deep Green Category, Grand Prize
- 2018 The Fourth Academy Award National Art and Design Exhibition, First Prize
- 2018 Chinese Creative Design Annual 2016/2017, Gold Award
- 2018 The Third Bauhaus Award International Design Competition, Silver Award
- 2018 Exhibition of Architectural Design in Developing Countries, Bronze Award

2018	Shandong Province College Student Construction Design Competition, Excellent Award
2017	China Architectural Education/TSINGRUN Award Students' Paper Competition, Excellence Award
2017	The 3rd Mainland, Taiwan and Hongkong Design Invitation Exhibition, Bronze Award
2017	National Green Building Design Competition - Green Category, Second Prize
2016	National Green Building Knowledge Competition for Youth Students, Excellent Award
2016	Lion Award International Industrial Design Competition - 'Innovative Application Design Group: Industrial Robot Systems', Excellent Market Potential Award

## SERVICES

### Journal Article Reviewer

- International Journal of Geographical Information Science
- Journal of Planning Education and Research

## SKILLS

- **Programming:** Python (Data Processing, Visualization, and Analysis), HTML
- **Machine Learning/Deep Learning:** Computer Vision (Semantic/Instance Segmentation), Time series forecasting (LSTM, Transformer), Tree models, Explainable AI (SHAP)
- **Spatial Data Analysis:** ArcGIS Pro, QGIS, Geoda, MGWR 2.2
- **Urban Climate Simulation:** SOLWEIG, Envi-met
- **Design and Planning:** AutoCAD, SketchUp, Rhino, Photoshop, Illustrator, InDesign, Enscape, Lumion