

# Wenjing Gong

(Updated on 04/2025)

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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 EXPERIENCE

- 2025 Student Fellow**  
Telehealth Institute, Texas A&M University, College Station, USA
- 2024 - 2028 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
- Climate Resilience, Environmental Health, Public Health
- Human Mobility, Travel Behavior, Transportation

## PEER-REVIEWED PUBLICATIONS

- 2025 Ye, X., Yigitcanlar, T., Xu, Y., Head, M., Hang, Y., Sanchez, T., **Gong, W.**, Niyogi, D., 2025.  
Urban planning and IPCC-like city assessments integration for climate-resilient cities.  
*Environment and Planning B* 23998083251330940. <https://doi.org/10.1177/23998083251330940>
- 2025 Ye, X., Yigitcanlar, T., Goodchild, M., Huang, X., Li, W., Shaw, S.-L., Fu, Y., **Gong, W.**,

- Newman, G., 2025. Artificial intelligence in urban science: why does it matter? *Annals of GIS* 0, 1–9. <https://doi.org/10.1080/19475683.2025.2469110>
- 2025 **Gong, W.**, Lee, C.S., Li, S., Adkison, D., Li, N., Wu, L., Ye, X., 2025. Cyber victimization in hybrid space: an analysis of employment scams using natural language processing and machine learning models. *Journal of Crime and Justice* 1–22. <https://doi.org/10.1080/0735648X.2024.2448804>
- 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:

- 2025 Ye, X., Li, S., **Gong, W.\***, Li, X., Li, X., Dadashova, B., Li, W., Du, J., Wu, J., 2025. Street view imagery in traffic crash and road safety analysis: A review (Under revision in *Applied Spatial Analysis and Policy*)
- 2025 **Gong, W.**, Ye, X., Wu, K., Jamonnak, S., Zhang, W., Yang, Y., Huang, X., 2025. Integrating Spatiotemporal Vision Transformer into Digital Twins for High-Resolution Heat Stress Forecasting in Campus Environments (Under review in *Journal of Planning Education and Research*)
- 2025 Rui, J., **Gong, W.**, Qin, L., 2025. A geo-embedded graph neural network framework for ride-hailing demand: Interpretable modeling of spatiotemporal dynamics driven by street contextual features (Under review in *Transportation Research Part D: Transport and Environment*)
- 2025 Rui, J., Shao, C., Hu, Z., **Gong, W.**, Li, X., 2025. Concerned with green scarcity or inequity? The impact of the quantity and equity of urban green space on green satisfaction and associated socioeconomic drivers (Under review in *Cities*)

## PRESENTATIONS

### Conferences

- 2025 **Gong, W.**, Ye, X., Wu, K., Jamonnak, S., Zhang, W., Yang, Y., Huang, X. Integrating Spatiotemporal Vision Transformer into Digital Twins for High-Resolution Heat Stress Forecasting in Campus Environments. *2025 Annual Meeting of American Association of Geographers*, March 24–28, 2025, Detroit, Michigan, USA (Oral).
- 2024 **Gong, W.**, Yang, Y., Zhang, W., Wu, K., 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 (Oral).
- 2024 **Gong, W.**, Yang, Y., Zhang, W., Wu, K., Ye, X., Huang, X. Integrating high-resolution simulations and transformer network predictions for mitigating human heat stress: A digital twin of a Texas campus. *College of Architecture's 26th Annual Showcase*, October 3, 2024, Texas

A&M University, College Station, Texas, USA (Poster).

- 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 (Oral).
- 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*, December 9, 2019, Columbia University, New York City, USA (Oral).

### AWARDS & HONORS

- 2025 Ashok K. Dutt Award for Best Graduate Student Paper (1<sup>st</sup> place), Regional Development and Planning Specialty Group, 2025 Annual Meeting of American Association of Geographers, \$ 200.
- 2025 UCGIS I-GUIDE 2024-2025 Community Champions Cohort (Student leader).
- 2024 - 2028 Research Assistantship covering stipend and tuition, Center for Geospatial Sciences, Applications and Technology, TAMU.
- 2019 - 2022 Academic Scholarship covering all tuition fees, TJU.
- 2014 - 2019 First-class Scholarships in academic performance (5%, **8 times**), SDUST.
- 2014 - 2019 First-class Corporate Scholarships (5%, **2 times**), SDUST.
- 2014 - 2019 "Outstanding Student Pioneer" (5%, **3 times**), SDUST.
- 2019 "Outstanding Graduate" of Shandong Province (5%).
- 2019 "Outstanding Student" in Science, Technology, and Innovation (5%), SDUST.
- 2018 Gold Award, SINO-JAPAN Art & Design Exchange Exhibition.
- 2018 National Best Leader Award, National Green Building Design Competition.
- 2018 Grand Prize, National Green Building Design Competition - Deep Green Category.
- 2018 First Prize, The Fourth Academy Award National Art and Design Exhibition.
- 2018 Gold Award, Chinese Creative Design Annual 2016/2017.
- 2018 Silver Award, The Third Bauhaus Award International Design Competition.
- 2018 Bronze Award, Exhibition of Architectural Design in Developing Countries.
- 2018 Excellent Award, Shandong Province College Student Construction Design Competition.
- 2017 Excellence Award, China Architectural Education/TSINGRUN Award Students' Paper Competition.
- 2017 Bronze Award, The 3rd Mainland, Taiwan and Hongkong Design Invitation Exhibition.
- 2017 Second Prize, National Green Building Design Competition - Green Category.
- 2016 Excellent Award, National Green Building Knowledge Competition for Youth Students.
- 2016 Excellent Market Potential Award, Lion Award International Industrial Design Competition – "Innovative Application Design Group: Industrial Robot Systems".

## SERVICES

### Invited Reviewer

- International Journal of Geographical Information Science
- Journal of Planning Education and Research
- Journal of Transport Geography
- Applied Spatial Analysis and Policy
- Forum Geografi

### Conference Organizations

- Session Chair/Primary Organizer: Symposium on Human Dynamics Research: Urban Environmental Intelligence and Human-Climate Interactions. *2025 Annual Meeting of American Association of Geographers*, March 24-28, 2025, Detroit, Michigan, USA.

## MEDIA COVERAGE

- Throwing Shade at Heatwaves: Tracking campus “hot spots” could help students stay cool in the Texas heat. <https://engineering.tamu.edu/news/2024/09/throwing-shade-at-heatwaves.html>

## SKILLS

- **Programming:** Python (Data Processing, Visualization, and Analysis), SQL, 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