Wenjing Gong

(Updated on 06/2025)

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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 - 2025 **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

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

PEER-REVIEWED PUBLICATIONS

2025 Ye, X., Li, S., **Gong, W.***, Li, X., Li, X., Dadashova, B., Li, W., Du, J., & Wu, D. (2025). Street View Imagery in Traffic Crash and Road Safety Analysis: A Review. *Applied Spatial Analysis and Policy*, 18(2), 50. https://doi.org/10.1007/s12061-025-09653-7

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(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(7), 1339. https://doi.org/10.3390/land12071339

Selected Under Review Papers:

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 (Under revision in *Journal of Planning Education and Research*)

2025   Ye, X., **Gong, W.**, Yang, Y., Zou, L., Tu, Z., Huang, X., Li, Z., Ning, H., Wu, L. Towards Agentic Urban Digital Twins (AUDiTs): Advancing New Urban Science through Human-Centric LLM Agents (Under review in *33rd ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems*)

2025   Yang, Y., Zou, L., **Gong, W.**, Ye, X., Zhou, B., Wang, S. DisasterVLP: Perceiving Multidimensional Disaster Damages from Street-View Images Using Visual-Language Models (Under review in *33rd ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems*)

2025   Rui, J., **Gong, W.** Paying lip service? An investigation into the spatial mismatch between younger and older adults' streetscape perceptual preference and visitation behavior (Under review in *Cities*)

2025   Rui, J., **Gong, W.**, Qin, L. A geo-embedded graph neural network framework for ride-hailing demand: Interpretable modeling of spatiotemporal dynamics driven by street contextual features (Under review in *Journal of Transport Geography*)

2025   Rui, J., Shao, C., Hu, Z., **Gong, W.**, Li, X. 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 *Journal of Geographical Sciences*)

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 12th 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 (**1st 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).

2025 Travel Grant, LAUP Department, TAMU, $600.

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 (2)
- Journal of Transport Geography (1)
- Journal of Planning Education and Research (1)
- Applied Spatial Analysis and Policy (1)
- Computational Urban Science (1)
- Forum Geografi (1)

Editorial Boards
- Managing Editor: Computational Urban Science

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