Wenjing Gong

Ph.D. student
Urban and Regional Science
College of Architecture
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(Updated on 01/2026)

RESEARCH INTERESTS

- Urban Analytics, Urban Planning, GIScience, GeoAI
- Climate Resilience, Environmental Health, Public Health

EDUCATION

2024 – pres. **Ph.D. Student, Urban and Regional Science (Urban Analytics & GeoAI)**
Texas A&M University, College Station, USA
Advisor: Dr. Lingqian Hu and 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 – 2026 **Student Ambassador**
Texas A&M Institute of Data Science, College Station, USA

2025 – 2026 **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

PEER-REVIEWED PUBLICATIONS

* Denotes corresponding author.

2026 **Gong, W.**, Wu, L., Zhu, C., Song, Y., & Ye, X. (2026). Revealing park visitation under dual environmental threats in a socially stratified city: Evidence from smartphone mobility data in Dallas. *Urban Forestry* & *Urban Greening*, 117, 129264. https://doi.org/10.1016/j.ufug.2026.129264

2026 Rui, J., & **Gong, W.** (2026). Paying lip service? An investigation into the spatial mismatch between younger and older adults' streetscape perceptual preference and visitation behavior. *Cities*, 171, 106750. https://doi.org/10.1016/j.cities.2025.106750

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. *Journal of Planning Education and Research*, 0739456X251391121. https://doi.org/10.1177/0739456X251391121

2025 Rui, J., Shao, C., Hu, Z., **Gong, W.**, Li, X. Prioritizing Scarcity or Equity? Quantifying Socioeconomic Synergies in Urban Green Satisfaction through Interpretable Geographical Machine Learning (Accepted in *Journal of Geographical Sciences*)

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

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

2025   Yang, Y., **Gong, W.**, Zhang, K. DisasterVLP: Perceiving Multidimensional Disaster Damages from Street-View Images Using Visual-Language Models. *Summer School on Cyberinfrastructure and Disaster Resilience*, August 15, 2025, Texas A&M University, College Station, USA (Oral).

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	Travel Grant, Summer School on Cyberinfrastructure and Disaster Resilience, TAMU (funded by NSF), $200.
2025	Texas A&M Institute of Data Science (TAMIDS) Student Ambassador Scholarship, Domain Data Science Track (2025–2026 cohort), TAMU, $2,000.
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, $3,000 (Student leader; project under Dr. Xinyue Ye).
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 Hong Kong 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".

TEACHING EXPERIENCE

Teaching Assistant

2025 Fall	PLAN626: Advanced GIS, Texas A&M University, College Station, USA
2020 Fall	Design Studio III (Urban Planning), Tongji University, Shanghai, China

SERVICES

Invited Reviewer
- International Journal of Geographical Information Science
- Sustainable Cities and Society
- Journal of Transport Geography
- Journal of Planning Education and Research
- Applied Spatial Analysis and Policy
- Computational Urban Science

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:** Agentic AI, 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, Google Earth Engine
- **Urban Climate Simulation:** SOLWEIG, Envi-met
- **Design and Planning:** AutoCAD, SketchUp, Rhino, Photoshop, Illustrator, InDesign, Enscape, Lumion