

Wenjing Gong

(Updated on 02/2025)

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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 EMPLOYMENT

- 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., 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., 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*)
- 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*)

PRESENTATIONS

Conferences

- 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

- 2024 - 2028 Research Assistantship covering stipend and tuition, Center for Geospatial Sciences, Applications and Technology, Texas A&M University
- 2019 - 2022 Academic Scholarship covering all tuition fees, Tongji University
- 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 SINO-JAPAN Art & Design Exchange Exhibition, Gold Award
- 2018 National Green Building Design Competition, National Best Leader 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
- Applied Spatial Analysis and Policy
- Forum Geografi

Conference Organizations

- Session Chair/Primary Organizer: AAG 2025 - [Symposium on Human Dynamics Research: Urban Environmental Intelligence and Human-Climate Interactions](#)

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