

# 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 - 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 **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 (Submitted to *Journal of Planning Education and Research*)
- 2025 Ye, X., Goodchild, M., **Gong, W.** et al., 2025. Artificial Intelligence in Urban Science: Why Does It Matter? (Submitted to *Annals of GIS*)
- 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 (Submitted to *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 (Submitted to *Computers, Environment and Urban Systems*)

## **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%, <b>8 times</b> ), SDUST
2014 - 2019	First-class Corporate Scholarships (5%, <b>2 times</b> ), SDUST
2014 - 2019	"Outstanding Student Pioneer" (5%, <b>3 times</b> ), 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
- 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