

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 - **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
- Human Mobility, Travel Behavior, Transportation
- Climate Resilience, Public Health

PEER-REVIEWED PUBLICATIONS

- 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:

- 2024 **Gong, W.**, Lee, C., Li, S., Adkison, D., Li, N., Wu, L., Ye, X., 2024. Cyber Victimization in Hybrid Space: An Analysis of Employment Scams Using Natural Language Processing and Machine Learning Models (Under revision in *Journal of Crime and Justice*)
- 2024 Ye, X., Li, S., **Gong, W.***, Li, X., Li, X., Dadashova, B., Li, W., Du, J., Wu, J., 2024. Street view imagery in traffic crash and road safety analysis: A review (Submitted to *Applied Spatial Analysis and Policy*)
- 2024 **Gong, W.**, Yang, Y., Zhang, W., Ye, X., Huang, X., 2024. Integrating high-resolution simulations and transformer network predictions for mitigating human heat stress: A digital twin of a Texas campus (Working paper)

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 (Will present orally).
- 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.
- 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.

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

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