Wenjing Gong

(Updated on 09/2024)

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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
- Transportation, Travel Behavior, Human Mobility
- 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 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 *Cities*)

2024 **Gong, W.**, Li, S., Adkison, D., Ye, X., Lee, C., Li, N., 2024. Cyber Victimization in Hybrid Space: An Analysis of Employment Scams Using Natural Language Processing and Machine Learning Models (Submitted to *Journal of Crime and Justice*)

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, abstract submitted to *the 6th Texas Weather Conference*)

PRESENTATIONS

Conferences

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*, Columbia University, December 9, 2019, New York.

AWARDS & HONORS

2019 - 2022 Academic Scholarship covering all tuition fees

2014 - 2022 Design/Planning Competition Awards (**11 times**, National and International level)

2014 - 2019 First-class Scholarships in academic performance (5%, **9 times**)

2014 - 2019 First-class Corporate Scholarships (5%, **2 times**)

2019 "Outstanding Graduate" of Shandong Province (5%)

2019 "Outstanding Student" in Science, Technology, and Innovation at university (5%)

SERVICES

Journal Article Reviewer

- International Journal of Geographical Information Science
- Journal of Planning Education and Research

SKILLS

Programming: Python (Data Processing, Visualization, and Analysis), 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