# Wenjing Gong

*(Updated on 10/2024)*

**Email:** wenjinggong@tamu.edu **Phone: +**1 **(**979)3449179

**Personal Website:** https://wenjing0916.github.io/

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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    **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 (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 |
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| 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), 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