

Jinlin Wu

School of Journalism and Communication,
The Lanzhou University, Gansu, China
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Google Scholar Profile: [Link](#)

Research Interests

Computational Social Science, Complex Network, Social Media, Causal Inference,
Health&Political Communication

Work Experience

Full-time Research Assistant / The Chinese University of Hong Kong 2024.6-2024.9

- Institute of Space and Earth Information Science (<http://www.iseis.cuhk.edu.hk/en/>)
- **Participation in Project:** “Vehicle Detection and Vehicle-kilometrage Estimation Based on Remote Sensing Technologies”, Smart Traffic Fund, The Government of Hong Kong SAR, No. PSRI/44/2208/PR, 2023 – 2025. (PI: Prof. Mei-Po Kwan) ([Link](#))
- **Research Direction:** Deep Learning of Remote Sensing and Modeling of Complex Transportation Systems; Human Mobility Prediction; Time Series Prediction
- **Supervisor:** [Prof. Mei-Po Kwan](#)

Part-time Research Assistant / International Communication Psychology Laboratory, The Lanzhou University 2023.1-present

- **Participation in Projects:**
 - (i) “How Textual Themes and Culture Distance affect Audience Attitudes?”, Yellow River National Cultural Park Research Institute Fund, 2022 – 2024. (PI: Prof. Juan Li) ([Link](#))
 - (ii) “The Impact of Visual Elements in Urban Space on User Cognition, Memory, and Emotions Based on Eye-Tracking Data”. (PI: Prof. Juan Li)
- **Research Direction:** Text mining; Statistical Inference; Neuroscience and Media
- **Supervisor:** [Prof. Juan Li](#)

Part-time Assistant / Shanghai Jiao Tong University 2022.7-2023.12

- School of Media&Communication
- **Participation in Project:** “In the Process of Political Collective Action in Hong Kong: The Mechanism of Emotional Contagion and Political Logic in Social Media”, Sponsored by: National Social Science Fund Project, Ministry of Education in China
- **Research Direction:** Computer Mediated Communication; Political Communication
- **Supervisor:** [Prof. Xueqing Li](#)

Participant / SPATIOTEMPORAL INNOVATION LAB 2022.6-2024.9

- **Responsibility:** As a key member of big data lab, I engaged in analyzing spatiotemporal big data, modeling social phenomena with differential equations. Additionally, I conducted spatial analysis of urban heat waves.
- **Research Direction:** Spatial Data Analysis; Measurement of Social Equity in Infrastructure
- Webpage: [SPATIOTEMPORAL INNOVATION LAB](#)

Part-time Assistant / Heywale 2021.7-2023.11

- **Participation in Projects:** Sentiment analysis and Topic model regarding the social media text; Geospatial data mining and visualizations; Feature extraction and prediction of remotely sensed data ([Link](#))
- Supervisor: Nano (The manager of the department)

Education

MSc in Urban Planning (Geography)/ Lanzhou University 2022.9-2025.6

- GPA: 3.93/5.0 (Excellent)
- Research Direction: Computational Communication
- Supervisor: Prof. Juan Li
- Graduation Thesis: The Impact of Urban Visual Imagery on Immigrants' Urban Memory and Identity: A Study Based on Eye-Tracking Experiments

BA in Public Administration /Sun Yat-Sen University 2017.9-2021.7

- GPA: 3.6/5.0 (Excellent)
- Research Direction: Computational Social Science
- Graduation Thesis: Investigation into the Determinants of Youth Political Attitudes: A Cross-Sectional Analysis Based on the Chinese General Social Survey (CGSS)

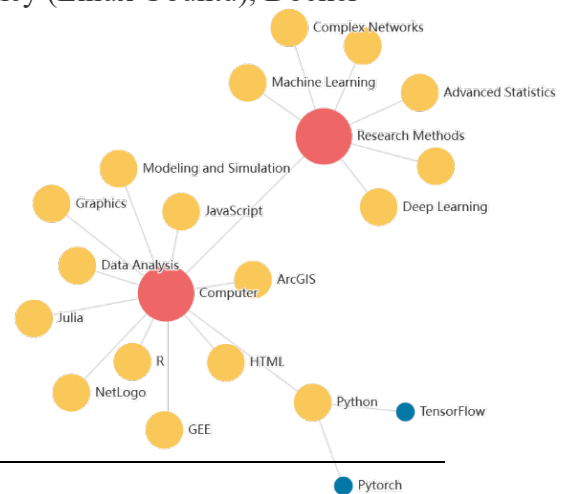
Skills

Computer

- Data Analysis, Visualization, Modelling and Simulation, Python (Requests, Selenium, PyTorch), R, JavaScript, HTML, GEE, OS Proficiency (Linux Ubuntu), Docker

Research Methods

- Machine Learning
- Deep Learning (CV, NLP)
- Complex Networks
- Disease Complex Dynamics, ABM
- Web Spider & Geospatial Web Data Visualization
- Text Mining and Sentiment analysis
- Statistical Inference



Academic Experience

Publications

- Liu, Z., **Jinlin Wu**, Connor Y. H. Wu & Xinming Xia. (2024). [Shifting sentiments: analyzing public reaction to COVID-19 containment policies in Wuhan and Shanghai through Weibo data](#). *Humanities and Social Sciences Communications*.
- Liu, Z., Fang, C., Li, H., **Jinlin Wu.**, Zhou, L., & Werner, M. (2023). [Efficiency and equality of the multimodal travel between public transit and bike-sharing accounting for multiscale](#). *Sustainable Cities and Society*, 105096.
- Liu, Z., **Jinlin Wu**, H Li, M Werner. (2023). [Spatio-Temporal Analysis of Urban Economic Resilience during COVID-19 with Multilayer Complex Networks](#). *The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences*.

Working Papers

- [Dynamic Connectivity of Multi-Arousal Sentiment and Feedback Loops based on Complex Network Analysis](#) (First Author, Submit to PNAS NEXUS, Revision)

- UrbanViT - Holistic Urban Sensing with Remote Sensing and Street View Images using Vision Transformers (Second Author, accepted by The ISPRS Geospatial Week 2024 oral talk, Submissions in progress)
- Online Hate: Complex Dynamics of Emotional Contagion (On going)
- Computational Narratives and Audience Studies (On going)

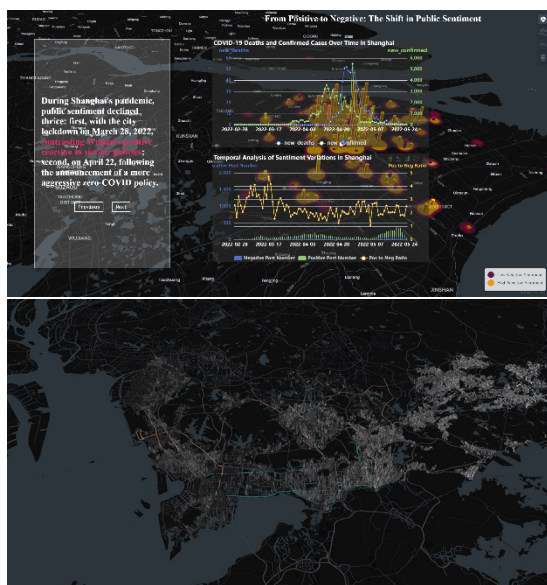
Conferences

- Zhihang, Liu., Mei-Po Kwan, Jinlin, Wu. (2024, Oct). Title: Optimal Location of Electric Vehicle Charging Stations Using Geospatial Big Data. Paper presented at the 32nd ACM International Conference on Advances in Geographic Information Systems (SIGSPATIAL '24), Atlanta, GA, USA.
- Jinlin, Wu., Zhihang, Liu. (2024, Oct). Title: CityCanvas: A Conditional Diffusion Model for Precise Street Image Editing. Paper presented at the ISPRS TCIV 2024, Perth, Australia
- Jinlin, Wu. (2023, Dec). Title: Opinion Assimilation or Differentiation? An Dynamics Model Based on Adaptive Networks. Paper presented at the High-End Forum on Computational Social Science held by CUHKSZ, Shenzhen, China
- Zhihang, Liu., Jinlin, Wu., Martin. (2023, Sep). Title: Spatio-temporal Analysis of Urban Economic Resilience during COVID-19 with Multilayer Complex Networks. Paper presented at The ISPRS Geospatial Week 2023, GeoHB Workshop, Cairo, Egypt
- Jinlin, Wu., Juan Li. (2023, July). Title: Analysis of the Emotional Mediation Effect in the Process of Misinformation diffusion. Paper presented at the China Cognitive Physiological Communication Research Workshop, Guangzhou, China
- Jinlin, Wu. (2023, July). Title: Emotional Diffusion Effects on social media. Chinese Sociological Association Annual Meeting, Computational Sociology Forum, Tianjin, China

Competition

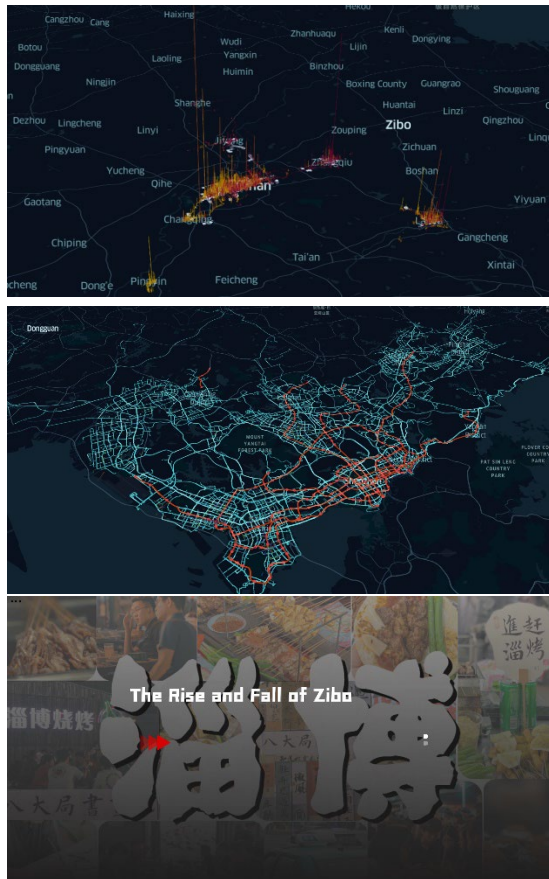
- Jinlin, Wu., Ning, Xiao, Liuwei, Li. (2023, Dec). Title: The Rise and Fall of Zibo Barbecue. Awarded at Eighth China Data Journalism Contest.

Dynamic Interactive Visualization Projects



- [Exploring Pandemic Fatigue under China's COVID-19 Policies](#)

- [3D Urban Complex Simulation System](#)



- [Urban Mobility and Pollutant \(PM2.5\) Emissions](#)
- [Bicycle Sharing - Public Transportation Multimodal Travel](#)
- [Exploring and Visualizing the Economic Rise and Decline of a City](#)

Awards & Scholarship

Awards

- Travel Grants by the Lanzhou University for GSW'2023, 2-7 September 2023
- Eighth China Data Journalism Contest Excellence Award (Primarily Responsible for Visualization and Web Development) 2023
- Excellent Paper Award in First National Student Land Survey Competition of China Land Science Society 2021
- Second Prize of the 16th Challenge Cup Guangdong University Student's Extra-curricular Academic Science and Technology Works Competition (Provincial). 2021
- Tsinghua University First Young Computational Social Scientist Award 2020
- National Top 100 in All-China Youth Federation's "Youth in China" Eighth Summer Social Research and Practice Activities for College Students 2020

Scholarship

- National Graduate Scholarship (Funded by the Ministry of Education of China) 2024
- Graduate Academic Scholarship of Lanzhou University 2023
- National Encouragement Scholarship (National) 2021
- Sun Yat-sen University Academic Innovation Scholarship (School) 2020
- Sun Yat-sen University Academic Scholarship 2019

References

Juan Li, Ph.D.

Professor

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Xueqing Li, Ph.D.

Tenure-Track Associate Professor

School of Media and Communication, Shanghai Jiao Tong University

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