

Jian LIU

College of Resource Environment and Tourism, Capital Normal University

No.105 West 3rd Ring Road North, Beijing, China, 100048

E-mail: liujian@cnu.edu.cn/ Tel: +(86) 15801151683

Homepage: www.jianliu.info

EDUCATION

09/2019 – 07/2022

Master of Human Geography

*College of Resource Environment and Tourism, Capital Normal University
(Beijing, China)*

Major courses: *Application of GIS in Human Geography, Regional Economics, Urban and Regional Planning, The Mathematical and Physical Fundamentals of Earth Science.*

09/2015 - 07/2019

Bachelor of Human Geography and Urban Planning

College of Geography and Environmental Science, Northwest Normal University (Lanzhou, China)

Major courses: *Human Geography, Urban Geography, Geographic Information System, Economic Geography, Principles of Urban Planning.*

RESEARCH INTERESTS

- Travel behaviors and activity space
- Human mobility & urban dynamics
- Complex network and urban structure
- Geographic big data analytics and mining

PUBLICATIONS

1. **Liu, J.**, Meng, B., Yang, M., Peng, X., Zhan, D., & Zhi, G. (2022). Quantifying spatial disparities and influencing factors of home, work, and activity space separation in Beijing. *Habitat International*, 126, 102621.
2. Liu, H., **Liu, J.**, Li, M., Gou, P., & Cheng, Y. (2022). Assessing the evolution of PM2. 5 and related health impacts resulting from air quality policies in China. *Environmental Impact Assessment Review*, 93, 106727. (Corresponding author)
3. **Liu, J.**, Meng, B., Wang, J., Chen, S., Tian, B., & Zhi, G. (2021). Exploring the Spatiotemporal Patterns of Residents' Daily Activities Using Text-Based Social Media Data: A Case Study of Beijing, China. *ISPRS International Journal of Geo-Information*, 10(6), 389.
4. **Liu, J.**, Meng, B., Chen, S., Chen, Z., & Zhan, D. (2021). Study on the Relationship between Dining Activities of Beijing Residents and Urban Space based on Multi-sources Big Data. *Human Geography*, 36(2), 63-72+183. (in Chinese)
5. Chen, S., Meng, B., Liu, N., Qi, Z., **Liu, J.**, & Wang, J. (2022). Cultural Perception of the Historical and Cultural Blocks of Beijing Based on Weibo Photos. *Land*, 11(4), 495.
6. Wang, B., Meng, B., Wang, J., Chen, S., & **Liu, J.** (2021). Perceiving Residents' Festival Activities

- Based on Social Media Data: A Case Study in Beijing, China. *ISPRS International Journal of Geo-Information*, 10(7), 474.
7. Tian, B., Meng, B., Wang, J., Zhi, G., Qi, Z., Chen, S., & **Liu, J.** (2022). Spatio-Temporal Patterns of Fitness Behavior in Beijing Based on Social Media Data. *Sustainability*, 14(7), 4106.
 8. Zhi, G., Meng, B., Wang, J., Chen, S., Tian, B., Ji, H., ... & **Liu, J.** (2021). Spatial Analysis of Urban Residential Sensitivity to Heatwave Events: Case Studies in Five Megacities in China. *Remote Sensing*, 13(20), 4086.
 9. Yang, T., **Liu, J.**, Meng, B., Zhang, S., Wang, J., Ji, H., Zhi, G., & Chen, S. Understanding tourist mobility and spatiotemporal behaviors in Beijing based on user-generated content data. *Applied Geography*. (Under review)
 10. Zhi, G., Meng, B., **Liu, J.**, Yang, T., Chen, S., Tian, B., Zhang, S., & Wang, J. The rhythms of citizens' leisure and recreation: A case study based on social media data. *Tourism Management Perspectives*. (Under review)
 11. Zhan, D., Zhang, Q., Kwan, M-P., **Liu, J.**, & Zhang, W. Impact of urban green space on self-rated health: Evidence from Beijing. *Urban Forestry & Urban Greening*. (Under review)

RESEARCH PROJECTS

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| 09/2019 - Present | <p>The National Key Research and Development Program of China</p> <p>Project name: <i>Geographic Big Data Mining and Spatiotemporal Pattern Discovery. (Grant Nos. 2017YFB0503605)</i></p> <p>Contribution: <i>Data processing, Spatial analysis, Report writing.</i></p> |
| 09/2019 - Present | <p>National Natural Science Foundation of China Project</p> <p>Project name: <i>Jobs-housing Separation Patterns, Measurement, Early Warning and Planning Response in the Context of Functional Reorganization. (Grant Nos. 51878052)</i></p> <p>Contribution: <i>Spatial analysis, Visualization, Report writing.</i></p> |
| 09/2019 - 12/2020 | <p>National Natural Science Foundation of China Project</p> <p>Project name: <i>Study on the Spatial matching measurement and patterns of urban elements. (Grant Nos. 41671165)</i></p> <p>Contribution: <i>Data processing, Spatial analysis, Visualization and Report writing.</i></p> |
| 12/2020 – 07/2021 | <p>WeSpace Academic Support Plan in 2020: “Tsinghua-Tencent” Emerging Technologies × Future Urban Space project</p> <p>Project name: <i>The impact of emerging technologies on future urban space under the trend of urbanization</i></p> <p>Contribution: <i>Proposal and Report writing.</i></p> |

CONFERENCES

Presentations

1. “Study on the Relationship between Dining Activities of Beijing Residents and Urban Space based on Multi-sources Big Data,” *The 15th Conference on Spatiotemporal Behavior and Planning*. Shenzhen, China. December 13-15, 2019.
2. “Study on the Relationship between Residents' Daily Activities and Urban Spatial Structure Based on Social Media Data,” *The Symposium of Research Frontiers on Urban Space and Resident Behavior in Beijing*, Beijing, China. December 25, 2019.
3. “Urban Residents’ Activity Diversity and Its Influential Factors in Beijing,” *The 16th Conference on Spatiotemporal Behavior and Planning*. XiaMen, China. December 12, 2020.
4. “The Paradigm of Spatiotemporal Behavior Research in the Big Data Era,” *The Geographical Society of China Annual Spring Conference 2021*, Xi’an, China. May 28-30, 2021.
5. “The Characteristics and Influencing Factors of Spatial Separation of "Live-Work-Activity" in Beijing,” *The 11th Forum on Spatially Integrated Humanities and Social Science*, Hangzhou, China. July 7-10, 2021.
6. “Mining the Residents’ Daily Activity Patterns of Beijing from the Perspective of Behavioral Sensing,” *2021 China Behavioral Geography Annual Conference and the 17th Conference on Spatiotemporal Behavior and Planning*, Wuhan, China, November 20-21, 2021

Participated conferences

1. 27/10/2019: *Workshop on Complex Systems and Social Computing*. Beijing, China.
2. 31/10/2019 - 3/11/2019: *2019 China Conference on Geography*. Beijing, China.
3. 8/05/2020 - 9/05/2020: *2020 ACM SIGSPATIAL CHINA Conference of Spatial Data Intelligence*. (Online)
4. 10/05/2020: *The 16th China Networks Science Forum in 2020*. (Online)
5. 22/08/2020 - 23/08/2020: *China National Conference on Big Data & Social Computing, BDSC 2020*. (Online)

SKILLS

Software Skills:

Spatial Analysis: ArcGIS (Pro), QGIS, GeoDa, CrimeStat, SatScan, Geodetector.

Statistical Analysis: Tableau, SPSS, Origin.

Network Analysis: Gephi, Ucinet.

Others: Adobe Photoshop, Illustrator, Indesign & Premiere, AutoCAD, SketchUp.

Programming Language: Python, R.

Other Skills: Fieldwork, Questionnaire Survey, In-depth Interview.

AWARDS

Excellent Graduates in Beijing. (2022)

Presidential Scholarship of Capital Normal University. (2022)

National scholarship for Postgraduates. (2021)

Individual Scholarship for Postgraduate of Capital Normal University. (2021)

National Encouragement Scholarship. (2017-2018)