

# Shiyan Sha

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## EDUCATION

**Harbin Institute of Technology** (Project 211 and 985/“Double First-Class” initiative) Harbin, China

Master of Philosophy in Urban and Rural Planning. Sep. 2021-Mar. 2024

- **Average score:** 86.9/100
- **Honors:** First-class Scholarship; Outstanding Student Award; Excellent Dissertation Proposal
- **Core Courses:** Planning Design Research (88/100); Urban Planning Theory (93/100); Application of Geographic Information and Remote Sensing Analysis (88/100); Design Research (95/100)

**Hebei University of Technology** (Project 211/“First-class Disciplines”) Tianjin, China

Bachelor of Engineering in Urban and Rural Planning. Sep. 2016-Jun. 2021

- **GPA:** 3.77/4.00 | **Ranking:** 2/58 (Top 3%)
- **Honors:** Outstanding Graduation Award; First-class Scholarship
- **Core Courses:** Urban Planning and Design (94/100); History of Urbanism and Planning (97/100); Principles of Urban and Rural Planning (96/100); Urban and Rural Regional Planning (94/100); Urban Sociology (92/100); Urban Geography (93/100)

• **The Joint Workshop of Peking University, The University of Hong Kong, and South China University of Technology.** (In College of Architecture and Landscape of Peking University) Beijing, China  
Aug. 2024

• **Summer Camp for Outstanding Students of School of Architecture, Tsinghua University.** Beijing, China  
Jul. 2024

• **SJTU (Shanghai Jiaotong University) SDG Summer Camp.** (Online) Shanghai, China  
Jun. 2024

## CERTIFICATES

**Journal Reviewer Certificates:** Nov. 2023-Present

- Sustainable Cities and Society (SCIE JCR Q1 IF=11.7)
- Applied Geography (SSCI JCR Q1 IF=4.9)
- Health & Place (SCIE/SSCI JCR Q1 IF=4.8)
- Heliyon (SCIE JCR Q2 IF=4.0)
- Landscape Architecture (Chinese Core Journals IF=3.1)

Member of **ISOCARP** (International Society of City and Regional Planners). Jun. 2023-Present

**Co-founder of the “Yingcheng Society”** (An urban studies academic society in Hebei University of Technology). Dec. 2017-Present

## RESEARCH INTERESTS

- **Globalization:** Social Infrastructure; Social Capital; Social Resilience; Regeneration Strategy
- **Climate Change:** Health Inequality; Health Risk Assessment; Climate Adaption Policy; Healthcare Service

## PUBLICATIONS

### Journal Articles:

- [1] **Shiyan Sha, Qi Cheng, Ming Lu\***. Building a “reservoir of social resilience:” A strategy for social infrastructure regeneration in shrinking cities based on social network analysis. **Habitat International**, 143, 102991. 2024  
<https://doi.org/10.1016/j.habitatint.2023.102991> (SSCI JCR Q1 IF=6.8)
- [2] **Shiyan Sha, Qi Cheng\***. Built or Social environment? Effects of perceptions of neighborhood green spaces on resilience of residents to heat waves. **Urban Forestry & Urban Greening**, 94, 128267. 2024  
<https://doi.org/10.1016/j.ufug.2024.128267> (SCIE/SSCI JCR Q1 IF=6.4)

- [3] **Shiyan Sha, Qi Cheng\***. Determining the effects of green space usage on health inequalities among residents of shrinking cities based on a social capital perspective. **Urban Forestry & Urban Greening**, 97, 128375. <https://doi.org/10.1016/j.ufug.2024.128375> (SCIE/SSCI JCR Q1 IF=6.4) 2024
- [4] Qi Cheng, **Shiyan Sha\* (Co-first/Corresponding Author)**. Last defense in climate change: Assessing healthcare inequities in response to compound environmental risk in a megacity in Northern China. **Sustainable Cities and Society**. (Under review, SCIE JCR Q1 IF=11.7) 2024
- [5] Qi Cheng, **Shiyan Sha\* (Corresponding Author)**. Revealing the injustice and factors that affect the resilience responses of residents in the full period of heat waves. **Sustainable Cities and Society**, 107, 105467. <https://doi.org/10.1016/j.scs.2024.105467> (SCIE JCR Q1 IF=11.7) 2024
- [6] Qi Cheng, **Shiyan Sha\* (Corresponding Author)**. Resisting the heat wave: Revealing inequalities in matching between heat exposure risk and healthcare services in a megacity. **Applied Geography**, 167, 103291. <https://doi.org/10.1016/j.apgeog.2024.103291> (SSCI JCR Q1 IF=4.9) 2024
- [7] Qi Cheng, **Shiyan Sha\* (Corresponding Author)**, Wen Cheng. Revealing the heterogeneity of social capital in shrinking cities from a social infrastructure perspective: Evidence from Hegang, China. **Applied Geography**, 159, 103087. <https://doi.org/10.1016/j.apgeog.2023.103087> (SSCI JCR Q1 IF=4.9) 2023
- [8] Ming Lu, **Shiyan Sha\* (Corresponding Author)**, Qi Cheng. The Inspirations of Action-Oriented Social Infrastructure Regeneration Practices: A Case Study of Bayside City, Australia. **Urban Planning International (UPI)** (In Chinese). <https://doi.org/10.19830/j.upi.2023.077> (CSSCI IF=4.7) 2023
- [9] Guangmeng Bian, ..., **Shiyan Sha**, Meng Zhen\*. Effects of thermal environment and air quality on outdoor thermal comfort in urban parks of Tianjin, China. **Environmental Science and Pollution Research**, 30(43), 97363–97376. <https://doi.org/10.1007/s11356-023-29130-3> (SCIE JCR Q1 IF=5.8) 2023
- [10] Bian, G.-M., ..., **Sha, S.-Y.**, & Zhen, M\*. Effects of landform and building layout on outdoor thermal environment: A case study of mountain villages in severely cold regions. **Journal of Asian Architecture and Building Engineering**. <https://doi.org/10.1080/13467581.2024.2389162> (SCIE/AHCI JCI Q1 IF=1.5) 2024

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### Conference Papers:

- [1] **Shiyan Sha**, Ming Lu\*, Qinghe Meng, Linghai Xuan. Differentiation of family medical resources use of “New Citizens” from the perspective of health equity. **Proceedings of the 58th ISOCARP Congress**. Brussels: Isocarp, 2022. <https://doi.org/10.47472/z2r9J3Q4> (Presentation) 2023
- [2] **Shiyan Sha**, Qi Cheng\*, Ming Lu, Wen Cheng. Equity-oriented research on the characteristics of socio-spatial differentiation and governance strategies in shrinking cities. **Proceedings of the 59th ISOCARP Congress**. Toronto: Isocarp, 2023. (Presentation) 2024
- [3] **Shiyan Sha**, Qi Cheng\*, Ming Lu, Wen Cheng. Improving social resilience in shrinking cities through social infrastructure regeneration: A investigation from Hegang, China. **Proceedings of the 59th ISOCARP Congress**. Toronto: Isocarp, 2023. (Presentation) 2024
- [4] **Shiyan Sha**, Qi Cheng\*, Ming Lu, Wen Cheng. Characteristics of “Flash Mob” behavior and cultural transmission in public space based on an inclusive perspective: Evidence from Tianjin City, China. **Proceedings of the 59th ISOCARP Congress**. Toronto: Isocarp, 2023. (Presentation) 2024
- [5] **Shiyan Sha**, Qi Cheng\*, Ming Lu, Wen Cheng. Spatial Distribution and Usage Characteristics of “Workers’ Harbor” from the Perspective of Opening and Sharing: A Case Study from Tianjin, China. **Proceedings of the 59th ISOCARP Congress**. Toronto: Isocarp, 2023. (Presentation) 2024
- [6] **Shiyan Sha**, Qi Cheng, Ming Lu. Research on Theoretical Responses and Updates of Social Infrastructure Aimed at Shrinkage [C]. **Proceedings of the 2023 China Urban Planning Annual Conference (02 Urban Renewal)**; 2023:15. <https://doi.org/10.26914/c.cnkihy.2023.055866> (Poster) 2023
- [7] Qi Cheng, **Shiyan Sha\* (Corresponding Author)**, Wen Cheng, Ming Lu. The thermal environmental characteristics and climate-responsive planning of “Rural Communities” in severe cold regions: Evidence from Zhangjiakou, China. **Proceedings of the 59th ISOCARP Congress**. Toronto: Isocarp, 2023. 2024
- [8] Qi Cheng, **Shiyan Sha\* (Corresponding Author)**, Wen Cheng, Ming Lu. Social infrastructure demand evaluation and planning policies of historical communities from a resilience perspective: Evidence from typical communities in Hebei, China **Proceedings of the 59th ISOCARP Congress**. Toronto: Isocarp, 2023. 2024

- [9] Qi Cheng, **Shiyan Sha\*** (*Corresponding Author*), Wen Cheng, Ming Lu. Evaluation of urban community healing space demand and planning strategies from a health equity perspective: Evidence from Tianjin, China. **Proceedings of the 59th ISOCARP Congress**. Toronto: Isocarp, 2023. 2024
- [10] Qi Cheng, **Shiyan Sha\*** (*Corresponding Author*), Wen Cheng, Ming Lu. Comparison of the spatial and temporal distribution characteristics of the “Informal Economy” in the context of multi-sector collaboration and governance: Evidence from Tianjin, China. **Proceedings of the 59th ISOCARP Congress**. Toronto: Isocarp, 2023. 2024
- [11] Qinghe Meng, Ming Lu, **Shiyan Sha**, Zhenwen Yang. Holistic Identification and Optimization of Basin Ecological Infrastructure Based on a Quantitative Analysis Framework. **Proceedings of the 58th ISOCARP Congress**. Brussels: Isocarp, 2022. <https://doi.org/10.47472/ZsRdcv5E> 2023

## RESEARCH EXPERIENCES

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### Projects:

#### Writing and Editing of the Book “Science of City” (*In Chinese*)

Sep. 2021-Mar. 2024

- The textbook was selected for the urban and rural planning curriculum of the National Urban and Rural Planning Programme under the “14th Five-Year Plan.”
- Contributed to the collection, writing, and editing of content, including chapters on urbanization, urban development laws, urban social systems, and rural planning strategies, contributing approximately 100,000 words.

#### Layout Plan for Healthcare Institutions in Tianjin (2019-2035)

Dec. 2019-Sep. 2020

- Assisted with data organization, analysis, and GIS mapping.
- Proposed policies and spatial strategies to address inequalities in infrastructure distribution.

#### Research on the Impact Mechanisms of Ecosystem Service Supply and Demand of Urban Green Infrastructure and Spatial Optimization Approaches: A Case Study in Northeast China. (*National Natural Science Foundation General Project*)

Mar. 2023

- Participated in a research project focused on green space regeneration and its socio-ecological benefits in Hegang, a typical shrinking city in Northeast China.
- Explored spatial differentiation of social capital generated by green spaces and the resulting health inequalities using UCINET, SPSS, and GIS.

#### Research on the Social Integration of Aboriginal People in the Revival Process of Historic Neighbourhoods. (*Project of Humanities and Social Sciences Research Planning Fund, Ministry of Education*)

Mar. 2023

- Conducted a social investigation of “Lao Daowai,” a historic district in Harbin, China, analyzing the influence of commercial activities and public spaces on the social integration of local residents and newcomers.

### Competitions:

#### Research Report on Comprehensive Urban and Rural Social Practice for Urban and Rural Planning Majors of Higher Education Institutions in China.

Oct. 2019

- Awarded Second Prize as the first author. Conducted a questionnaire survey and data analysis of the Tianjin Workers’ Harbor to understand the demands of outdoor workers and develop design strategies for shared and open spaces.

#### Excellent Urban Design Assignments for Urban and Rural Planning Majors in Higher Education Institutions in China.

Oct. 2019

- Awarded Third Prize as the first author. Conducted a month-long in-depth survey and proposed a micro-regeneration strategy of “co-creation and co-management” to revitalize a historic district in Liaocheng City, China.

## SKILLS

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**Technical skills** SPSS, GIS, ENVI, R, Python, Latex, Markdown, Geoda, Origin, etc.

**Languages** Chinese (native), English (fluent) (IELTS 8.0)