

# Qi Cheng

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## EDUCATION

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**Harbin Institute of Technology** (*Project 211 and 985/“Double First-Class” initiative*) Harbin, China  
**Master** of Philosophy in Urban and Rural Planning Sep. 2022-Present

- **Average score:** 89.67/100 | **Ranking:** 1/38 (Top 2.6%)
- **Honors:** First-class Scholarship; Outstanding Student Award
- **Core Courses:** Research Methodology and Paper Writing of Architecture Science (91/100); Theory of Urban Transportation Planning (91/100); Research Methods of Urban Planning (90/100); Frontier of Planning Research (90/100); Urban landscape Feature (97/100)

**Hebei University of Technology** (*Project 211/“First-class Disciplines”*) Tianjin, China  
**Bachelor** of Engineering in Urban and Rural Planning Sep. 2017-Jun. 2022

- **GPA:** 3.90/4.00 | **Ranking:** 2/40 (Top 5.0%)
- **Honors:** Outstanding Graduate Award; First-class Scholarship; Outstanding graduation project; National Encouragement scholarship
- **Core Courses:** Principle of Urban and Rural Planning A (95/100); Specific Surveying and Mapping (95/100); Urban Planning and Design (94/100); Special Planning B (Planning of Road and Traffic of Urban and Rural) (94/100); Urban Economics (93/100)

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

**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

## CERTIFICATES

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**Journal Reviewer Certificates** Apr. 2024-Present

- *Sustainable Cities and Society* (SCIE JCR Q1 IF=11.7)
- *Cities* (SSCI JCR Q1 IF=6.7)
- *Urban Climate* (SCIE JCR Q1 IF=6.0)
- *Applied Geography* (SSCI JCR Q1 IF=4.9)

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

## RESEARCH INTERESTS

Climate change; Human well-being; Spatial justice; Healthcare inequality; Vulnerable areas; Social resilience

## PUBLICATIONS

### Journal articles

- [1] **Cheng, Q., & Sha, S.** 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. Jul. 2024  
<https://doi.org/10.1016/j.scs.2024.105467> **(SCIE JCR Q1 IF=11.7)**
- [2] **Cheng, Q., & Sha, S.** Resisting the heat wave: Revealing inequalities in matching between heat exposure risk and healthcare services in a megacity. **Applied Geography**, 167, 103291. Jun. 2024  
<https://doi.org/10.1016/j.apgeog.2024.103291> **(SSCI JCR Q1 IF=4.9)**

- [3] **Cheng, Q.** et al. Revealing the heterogeneity of social capital in shrinking cities from a social infrastructure perspective: Evidence from Hegang, China. **Applied Geography**, 159, 103087. *Otc. 2023*  
<https://doi.org/10.1016/j.apgeog.2023.103087> **(SSCI JCR Q1 IF=4.9)**
- [4] **Cheng, Q., & Sha, S.** Last defense in climate change: Assessing healthcare inequities in response to compound environmental risk in a megacity in Northern China. **Sustainable Cities and Society**. *May. 2024*  
**(After major revision, SCIE JCR Q1 IF=11.7)**
- [5] Sha, S., & **Cheng, Q\*** **(Corresponding Author)**. Built or Social environment? Effects of perceptions of neighborhood green spaces on resilience of residents to heat waves. **Urban Forestry & Urban Greening**, 94, 128267. *Apr. 2024*  
<https://doi.org/10.1016/j.ufug.2024.128267> **(SCIE/SSCI JCR Q1 IF=6.4)**
- [6] Sha, S., & **Cheng, Q\*** **(Corresponding Author)**. 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. *Jul. 2024*  
<https://doi.org/10.1016/j.ufug.2024.128375> **(SCIE/SSCI JCR Q1 IF=6.4)**
- [7] Sha, S., **Cheng, Q.**, & Lu, M. Building a “reservoir of social resilience:” A strategy for social infrastructure regeneration in shrinking cities based on social network analysis. **Habitat International**, 143, 102991. *Jan. 2024*  
<https://doi.org/10.1016/j.habitatint.2023.102991> **(SSCI JCR Q1 IF=6.8)**
- [8] Bian, G., **Cheng, Q.**, Yan, G., Sha, S., & 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**. *Aug. 2024*  
<https://doi.org/10.1080/13467581.2024.2389162> **(SCIE/AHCI JCI Q1 IF=1.5)**
- [9] Lu, M., Sha, S., & **Cheng, Q.** The Inspirations of Action-Oriented Social Infrastructure Regeneration Practices: A Case Study of Bayside City, Australia. **Urban Planning International** (In Chinese). *Nov. 2023*  
<https://doi.org/10.19830/j.upi.2023.077> **(CSSCI IF=4.7)**
- [10] Bian, G., ..., **Cheng, Q.**, Sun, T., Sha, S., & Zhen, M. 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. *Aug. 2023*  
<https://doi.org/10.1007/s11356-023-29130-3> **(SCIE JCR Q1 IF=5.8)**

## **Conference papers**

- [11] **Cheng, Q.** et al. 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. *Oct. 2023*  
**(Presentation)**
- [12] **Cheng, Q.** et al. 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. *Oct. 2023*  
**(Presentation)**
- [13] **Cheng, Q.** et al. 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. *Oct. 2023*  
**(Presentation)**
- [14] **Cheng, Q.** et al. 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. *Oct. 2023*  
**(Presentation)**
- [15] Sha, S., **Cheng, Q\*** **(Corresponding Author)**., Lu, M., & Cheng, W. 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. *Oct. 2023*
- [16] Sha, S., **Cheng, Q\*** **(Corresponding Author)**., Lu, M., & Cheng, W. 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. *Oct. 2023*

- [17] Sha, S., **Cheng, Q\*** (*Corresponding Author*), Lu, M., & Cheng, W. Improving social resilience in shrinking cities through social infrastructure regeneration-A investigation from Hegang, China. **Proceedings of the 59th ISOCARP Congress**. Toronto: Isocarp, 2023. Oct. 2023
- [18] Sha, S., **Cheng, Q\*** (*Corresponding Author*), Lu, M., & Cheng, W. 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. Oct. 2023
- [19] Sha, S., **Cheng, Q.**, & Lu, M. Research on Theoretical Responses and Updates of Social Infrastructure Aimed at Shrinkage. **Proceedings of the 2023 China Urban Planning Annual Conference**. 2023. Sep. 2023  
<https://doi.org/10.26914/c.cnkihy.2023.055866>. (Poster)
- [20] Lu, M., Hao, W., & **Cheng, Q.** Analysis and Practice of Ancient Urban Design Concepts Based on Topographical Maps and Travel Notes: A Case Study of Yuanbao Island in Yangliuqing Town, Tianjin City. **Proceedings of the 2023 China Urban Planning Annual Conference**, 2023. Sep. 2023  
<https://doi.org/10.26914/c.cnkihy.2023.056438>.

## RESEARCH EXPERIENCES

### Projects

#### **National Natural Science Foundation General Project**

Aug. 2023

*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.*

- Collected survey data through field research, performing a comprehensive analysis of social resilience in Hegang using SPSS software.
- Authored a published article on resilience in urban green spaces, which explored the spatial distribution characteristics of social capital and examined variations across diverse socio-economic groups.

#### **Ministry of Education Humanities and Social Sciences Planning Project**

Dec. 2022

*“The Belt and Road” Foreign Expert Innovation Talent Exchange Program.*

- Collected, verified, and analyzed thermal environment data from rural villages in cold regions, contributing to the accuracy and reliability of environmental data using ArcGIS and Rayman.
- Drafted the original manuscript proposing a comprehensive spatial layout strategy to enhance the thermal environment of rural villages, addressing various factors influencing thermal conditions.

#### **Planning and Design Scheme of Zouping National Cultural Health Base and Supporting Facilities Project in China**

Nov. 2021

- Actively participated in data collection, preliminary site investigations, and information gathering, contributing to informed decision-making as a core member of the team.
- Conducted comprehensive site planning to optimize land use and infrastructure and proposed a spatial distribution strategy to enhance the efficiency and accessibility of healthcare services.

### Competitions

#### **WUPENICITY 2020 International Competition on Urban Sustainability Reports**

Nov. 2020

- Contributed to the data collection (distribution of questionnaire), data analysis and GIS mapping as a core team member. As well as developed policy recommendations and spatial strategies to address infrastructure disparities and mitigating inequalities.

#### **2022 China International Landscape Planning and Design Competition**

Oct. 2022

- Gold Award Recipient (Sole Author): Developed and proposed comprehensive urban regeneration strategies and plans for the Tanggu District of Tianjin using the Analytic Hierarchy Process (AHP) method.

#### **The 10th IDEA-KING International Landscape Planning and Design Competition**

Dec. 2020

- Gold Award Recipient: Recognized as a core contributor for site modeling and innovative landscape planning and design solutions.

## SKILLS

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

**Languages** Chinese (native), English (IELTS in preparation)