Qi Cheng

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Bio: https://qicheng-2024.github.io (For more Info) | **ORCID:** https://orcid.org/0000-0002-2786-4955

EDUCATION

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 Graduation Award; First-class Scholarship; Outstanding graduation project
- 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*

2024 SJTU (Shanghai Jiaotong University) SDG July Camp *(Online)* — Shanghai, China, *Jul. 2024*

CERTIFICATES

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*

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. https://doi.org/10.1016/j.scs.2024.105467 — *Jul. 2024* ***(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. https://doi.org/10.1016/j.apgeog.2024.103291 — *Jun. 2024* ***(SSCI JCR Q1 IF=4.9)***

[3] **Cheng, Q.**, Sha, S., Cheng W. 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)*** *Otc. 2023*

[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.** ***(After major revision, SCIE JCR Q1 IF=11.7)*** *May. 2024*

[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. https://doi.org/10.1016/j.ufug.2024.128267 ***(SCIE/SSCI JCR Q1 IF=6.4)*** *Apr. 2024*

[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. https://doi.org/10.1016/j.ufug.2024.128375 ***(SCIE/SSCI JCR Q1 IF=6.4)*** *Jul. 2024*

[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. https://doi.org/10.1016/j.habitatint.2023.102991 ***(SSCI JCR Q1 IF=6.8)*** *Jan. 2024*

[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**. https://doi.org/10.1080/13467581.2024.2389162 ***(SCIE/AHCI JCI Q1 IF=1.5)*** *Aug. 2024*

[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). https://doi.org/10.19830/j.upi.2023.077 ***(CSSCI IF=4.7)*** *Nov. 2023*

[10] Bian, G., Gao, X., Zou, Q., **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. https://doi.org/10.1007/s11356-023-29130-3 ***(SCIE JCR Q1 IF=5.8)*** *Aug. 2023*

Conference papers

[11] **Cheng, Q.**, Sha, S., Hao W., Cheng W., Lu M. 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. ***(Presentation)*** *Oct. 2023*

[12] **Cheng, Q.**, Sha, S., Cheng W., Lu M. 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. ***(Presentation)*** *Oct. 2023*

[13] **Cheng, Q.**, Sha, S., Cheng W., Lu M. 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. ***(Presentation)*** *Oct. 2023*

[14] **Cheng, Q.**, Sha, S., Cheng W., Lu M. 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. ***(Presentation)*** *Oct. 2023*

[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. https://doi.org/10.26914/c.cnkihy.2023.055866. ***(Poster)*** *Sep. 2023*

[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. https://doi.org/10.26914/c.cnkihy.2023.056438. *Sep. 2023*

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 (fluent) (IELTS in preparation)