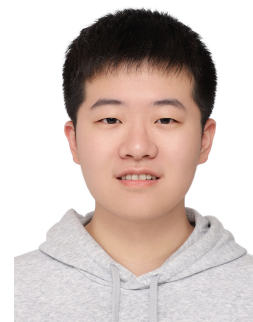


Chenglong Wang

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EDUCATION

Peking University

M.S. in Geography (Smart City and Big Data)

– Thesis: TBD.

Shenzhen, CN

2023/09–2026/06 (Expected)

Wuhan University

B.S. in Geographic Information Science, GPA: 3.98/4.00 (ranked 1st/60 in the dept.)

– Thesis: Urban Land-use Recognition and Monitoring Based on Multi-source Heterogeneous Spatial Big Data: a Multimodal Deep Learning Framework.

Wuhan, CN

2019/09–2023/06

EXPERIENCE

Peking University

Team Member at SUPD-GeoAI Lab

– Supervisor: Prof. Zhaoya Gong, Pengjun Zhao, Jun Chen
– Topics: GeoAI, Spatiotemporal Data Mining, AI for Cartography, and Spatial Interaction.

Shenzhen, CN

2022/09–2026/06 (Expected)

SenseTime Research

AI Research Intern at Fundamental Vision Group (FVG)

– Mentor: Prof. Lewei Lu, Jifeng Dai
– Topics: Multimodal Large Language Models and Autonomous Driving.

Shanghai, CN

2022/05–2022/09

Wuhan University

Undergraduate Research Intern at Intelligent Information Processing Lab (IIP)

– Supervisor: Prof. Zhenzhong Chen
– Topics: Image and Video Understanding.

Wuhan, CN

2022/01–2022/06

Wuhan University

Undergraduate Research Intern at Urbanisation Research Group (WURG)

– Supervisor: Prof. Mengjun Kang, Shiliang Su
– Topics: Information Theory of Cartography, Image Quality Assessment, and 3D WebGIS.

Wuhan, CN

2021/01–2021/12

PUBLICATIONS

Peer-reviewed Journal Articles (¹co-first author, *corresponding author)

1. Zhaoya Gong¹, **Chenglong Wang**¹, Bin Liu, Binbo Li, Wei Tu, Jun Chen, Pengjun Zhao*. Multi-spatial urban function modeling: A multimodal deep network approach for transfer and multi-task learning. *International Journal of Applied Earth Observation and Geoinformation*, 2024. (JCR Q1, Top Journal in Remote Sensing, Under Review)

2. Zhaoya Gong¹, Yuting Chen¹, **Chenglong Wang¹**, Bin Liu, Pengjun Zhao*, Zhengzi Zhou. Learning spatial interaction representation with Heterogeneous Graph Convolution Networks for urban land-use inference. *International Journal of Geographical Information Science*, 2024. (JCR Q1, Top Journal in Geographic Information Science, Under Review)
3. Binbo Li, Donghai Xie*, Yu Wu*, Lijuan Zheng, Chongbin Xu, Ying Zhou, Yibo Fu, **Chenglong Wang**, Bin Liu, Xin Zuo. Synthesis and Detection Algorithms for Oblique Stripe Noise of Space-borne Remote Sensing Images. *IEEE Transactions on Geoscience and Remote Sensing*, 2024. (JCR Q1, Top Journal in Remote Sensing)
4. **Chenglong Wang**, Tianjiao Chen, Yuqian Liu, Mengjun Kang*, Shiliang Su, Binbo Li. TransMI: a Transfer-learning method for generalized Map Information evaluation. *Cartography and Geographic Information Science*, 2024. (JCR Q1, Top Journal in Cartography)

Peer-reviewed Conference Papers (¹co-first author, *corresponding author)

1. **Chenglong Wang^{1*}**, Zhicheng Deng¹. Multi-perspective Spatiotemporal Context-aware Neural Networks for Human Mobility Prediction. *Proceedings of the International Conference on Advances in Geographic Information Systems (SIGSPATIAL) Workshops*, 2023.
2. Junfeng Xie, Xing Lv*, Cun Chu, Ren Liu, Fan Mo, Binbo Li, **Chenglong Wang**. An Improved Image Registration Algorithm for Thermal Infrared and Panchromatic Image Based on Geometric Structural Properties. *ISPRS Annals of the Photogrammetry Remote Sensing and Spatial Information Sciences (ISPRS Annals)*, 2023.
3. Guanchen Ding¹, Wenwei Han¹, **Chenglong Wang¹**, Mingpeng Cui, Lin Zhou, Dianbo Pan, Jiayi Wang, Junxi Zhang, Zhenzhong Chen*. A Coarse-to-Fine Boundary Localization method for Naturalistic Driving Action Recognition. *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops*, 2022.

PRESENTATIONS

Oral Presentations

1. Oral Presentation (2023): Multi-perspective Spatiotemporal Context-aware Neural Networks for Human Mobility Prediction. In *ACM SIGSPATIAL HuMob Challenge*, Nov. 13, 2023, Hamburg, Germany.
2. Oral Presentation (2023): Uncovering the global and local structures of urban networks via Poincare Embedding. In *City+2023@Perth*, Sep. 8-10, 2023, Perth, Australia.
3. Oral Presentation (2023): Uncovering the global and local structures of urban networks via Poincare Embedding. In *International Symposium on Location-Based Big Data and GeoAI*, Aug. 12, 2023, Cape Town, South Africa.
4. Oral Presentation (2023): TransMI: a Transfer-learning method for generalized Map Information evaluation. In *Annual Conference on GIS Theory and Methods*, May 20, 2023, Guilin, China.
5. Thesis Defense (2023): Urban land-use recognition and monitoring based on multi-source heterogeneous spatial big data: a multimodal deep learning framework. In *Wuhan University*, May 14, 2023, Wuhan, China.
6. Oral Presentation (2022): A Coarse-to-Fine Boundary Localization method for Naturalistic Driving Action Recognition. In *IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops*, Jun. 20, 2022, New Orleans, USA.

SCHOLARSHIPS

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|--|------|
| 1. Xia Jianbai Outstanding Student Scholarship, Wuhan University. (RMB: 6,000) | 2022 |
| 2. First-class Undergraduate Scholarship, Wuhan University. (RMB: 3,000) | 2022 |
| 3. Yu Gang & Song Xiao Scholarship, Wuhan University. (RMB: 20,000, Top-0.1%) | 2021 |
| 4. First-class Undergraduate Scholarship, Wuhan University. (RMB: 3,000) | 2021 |

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| 5. China National Scholarship, Ministry of Education of People's Republic of China. (RMB: 8,000) | 2020 |
| 6. First-class Undergraduate Scholarship, Wuhan University. (RMB: 3,000) | 2020 |
| 7. Haibin Scholarship, Municipal Government of Kunshan. (RMB: 20,000, Top-0.1%) | 2019 |

HONORS

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|---|------|
| 1. Outstanding Graduate, Wuhan University. | 2023 |
| 2. LuoJia Role Model, Wuhan University. (Top-10/ 40,000) | 2023 |
| 3. Pacemaker to Merit Student, Wuhan University. (Top-0.1%) | 2022 |
| 4. Merit Student, Wuhan University. | 2022 |
| 5. Pacemaker in Learning and Scientific Research, Wuhan University. | 2022 |
| 6. Finalist in Top 10 LuoJia Fengyun Student, Wuhan University. (Top-0.1%) | 2022 |
| 7. Merit Student, Wuhan University. | 2021 |
| 8. Social Activist, Wuhan University. | 2021 |
| 9. Pacemaker in Learning and Scientific Research, Wuhan University. | 2021 |
| 10. Merit Student, Wuhan University. | 2020 |
| 11. Excellent Team Leader of Summer Social Practice, Hubei Committee of the Communist Youth League. | 2020 |
| 12. Advanced Individual in Summer Social Practice, Wuhan University. | 2020 |

AWARDS

- | | |
|---|------|
| 1. Top-10 score, HuMob Challenge, International Conference on Advances in Geographic Information Systems Workshops. | 2023 |
| 2. Excellent Bachelor's Dissertation in Wuhan University. | 2023 |
| 3. Finalist, International Mathematical Contest in Modeling. | 2022 |
| 4. Top-10 score, AICity Challenge, IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops. | 2022 |
| 5. Meritorious Winner, International Mathematical Contest in Modeling. | 2021 |
| 6. First Prize, KQ Cup GIScience Competition (Software Development). | 2021 |
| 7. First Prize, SuperMap Cup GIScience Competition (Software Development, Hubei). | 2021 |
| 8. Second Prize, Challenge Cup Technological Innovation Competition (Hubei). | 2021 |
| 9. Second Prize, National Mathematical Contest in Modeling (Hubei). | 2021 |
| 10. Third Prize, SuperMap Cup GIScience Competition (Cartography, Hubei). | 2021 |
| 11. First Prize, Chinese Mathematics Competition. | 2020 |
| 12. First Prize, Hubei Mathematics Competition. | 2020 |
| 13. Second Prize, National English Competition for College Students. | 2020 |
| 14. Second Prize, Translation and Interpreting Contest (Hubei). | 2020 |
| 15. First Prize, Mathematical Olympiad (Jiangsu). | 2018 |
| 16. Second Prize, Chemical Olympiad (Jiangsu). | 2018 |
| 17. Second Prize, Physics Olympiad (Jiangsu). | 2018 |
| 18. Third Prize, Biological Olympiad (Jiangsu). | 2018 |
| 19. Second Prize, Chemical Olympiad (Jiangsu). | 2017 |

SERVICES

Service to the University

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|---|-----------|
| 1. Undersecretary, Department of Sci-tech Practice, SRES, Wuhan University. | 2019–2021 |
| 2. Undersecretary, Young Volunteers Association, SRES, Wuhan University. | 2019–2021 |

SKILLS

- **Programming:** Python, C/C++, Java, Matlab, C#, R, HTML, CSS, JavaScript.
- **Cartography & GIScience:** CorelDraw, Illustrator, Photoshop, ArcGIS, QGIS, ENVI, GEE.
- **Others:** SPSS, Blender, Unity, L^AT_EX, Git, SQL.

LANGUAGES

- **Chinese:** Mother tongue, native speaker.
- **English:** Fluent, CET-6:591, CET-4:621.

HOBBIES

- **Game of Go:** Yon-dan.
- **Ruan:** Grade III.