

Qi-Hang Sun | Curriculum Vitae

🌐 <https://github.com/XZhoou> 🌐 <https://xzhoou.top>

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RESEARCH INTERESTS

Transportation network analysis (TNA), Travel demand management (TDM), Pedestrian dynamics

EDUCATION

Beihang University <i>Ph.D. Candidate in Management Science and Engineering; GPA: 3.9/4.0; Rank: 2/51</i> Doctoral Thesis Topic: <i>Design and operational optimization of reservation schemes for congestion management</i>	Beijing, CHN 2023.09 - Present
Beihang University <i>B.S. in Biomedical Engineering (Minor)</i>	Beijing, CHN 2020.09 - 2023.06
Beihang University <i>B.S. in Information Management and Information System</i>	Beijing, CHN 2019.09 - 2023.06

AWARDS & HONORS

- Joint-training Ph.D. Program Scholarship, China Scholarship Council, 2025
- Excellent Student Cadre (Graduate), Beihang University, 2025
- The First Prize Academic Scholarship (Graduate), Beihang University, 2024, 2025
- Merit Student (Graduate), Beihang University, 2024
- Excellent League Member (Graduate), Beihang University, 2024, 2025
- Best Paper Award, The 5th Frontier Symposium on Traffic Behavior and Transportation Science, 2024
- Freshmen Scholarship, Beihang University, 2023
- Outstanding Undergraduate Graduates, Beihang University, 2023
- Merit Student (Undergraduate), Beihang University, 2022
- Model Student of Academic Records, Beihang University, 2022
- The Grand Prize Academic Scholarship (Undergraduate), Beihang University, 2022
- The First Prize Discipline Competition Scholarship, Beihang University, 2022
- The Second Prize Social Work Scholarship, Beihang University, 2022
- Honorable Mention Prize in Mathematical Contest In Modeling (MCM), COMAP, 2022
- The Second Prize in China Undergraduate Mathematical Contest in Modeling, CUMCM, 2021
- The Second Prize Academic Scholarship (Undergraduate), Beihang University, 2021
- Outstanding Volunteer, Beihang University, 2021

INTERNSHIP EXPERIENCE

Ministry of Industry and Information Technology Undergraduate Research Assistant	2022.03-2022.09
International Relations Department Student Assistant	2025.09-2026.01

SKILLS

Programming	Python, R, Matlab, C, SQL, \LaTeX
Languages	Chinese (<i>Native</i>), English (<i>Conversational</i>)
Software	MS Office, IBM SPSS
Sports	Football, Badminton, Table tennis

PUBLICATIONS

- **New insights into bi-directional pedestrian flows with heterogeneous speeds: modeling and analyses**
Accepted by The 14th Workshop on Computational Transportation Science (CTS 2023)
Qi-Hang Sun, Ren-Yong Guo
- **Morning Peak Reservation Scheme Incorporating Noncompliance Behaviors: Modeling and Analysis**
Accepted by The 5th Frontier Symposium on Traffic Behavior and Transportation Science (TBTS 2024)
Qi-Hang Sun, Ren-Yong Guo
- **Flexible reservation scheme for urban transportation network management in a multimodal context**
Accepted by International Symposium on Multimodal Transportation (ISMT 2025)
Qi-Hang Sun, Ren-Yong Guo
- **Reservation scheme for congestion management during morning commute: Considering noncompliance**
Submitted to Management Science
Qi-Hang Sun, Ren-Yong Guo
- **Flexible Partial Reservation Scheme for Morning Commute Congestion Management Considering Noncompliance**
Working paper
Qi-Hang Sun, Ren-Yong Guo
- **To violate or comply: strategic speculation in reservation scheme**
Working paper
Qi-Hang Sun, Ren-Yong Guo

CONFERENCE TALKS

- **The 14th Workshop on Computational Transportation Science**, Shanghai, 2023.08
Oral Presentation
- **The 5th Frontier Symposium on Traffic Behavior and Transportation Science**, Yichang, 2024.08
Oral Presentation
- **The 16th Workshop on Computational Transportation Science**, Wuhan, 2025.07
Oral Presentation
- **The International Symposium on Multimodal Transportation**, Guangzhou, 2025.11
Oral Presentation

SELECTED COURSES

- **Ph.D. Student:**
Advanced Microeconomics Theory (94), Advanced Mathematical Programming (93), Optimization Method (98), Advanced Optimization Theory and Algorithm (92), Urban Economics (95), Advanced Academic English Writing (95)
- **Undergraduate:**
Information Systems Analysis and Design (95), Program Designing (92), Production and Operations Management (94), Artificial Intelligence and Deep Learning (97), Decision-Making and Business Intelligence Systems (96), Large-Scale Database Application Experiment (96)