Qihang 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   **Beijing, CHN**
Ph.D. Candidate in Management Science and Engineering; GPA: 3.9/4.0; Rank: 2/51   *2023.09 - Present*

Beihang University   **Beijing, CHN**
B.S. in Biomedical Engineering (Minor)   *2020.09 - 2023.06*

Beihang University   **Beijing, CHN**
B.S. in Information Management and Information System   *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   2022.03-2022.09
Undergraduate Research Assistant

International Relations Department   *2025.09-Present*
Student Assistant

SKILLS

Programming	Python, R, Matlab, C, SQL, LaTeX
Languages	Chinese (*Native*), English (*Conversational*)
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

○ **Reservation scheme for congestion management during morning commute: Considering noncompliance**
Working paper
Qi-Hang Sun, Ren-Yong Guo

○ **Flexible Partial Reservation Scheme for Morning Commute Congestion Management Considering Noncompliance**
Submitted to 26th International Symposium on Transportation and Traffic Theory (ISTTT26)
Qi-Hang Sun, Ren-Yong Guo

○ **Flexible reservation scheme for urban transportation network management in a multimodal context**
Submitted to International Symposium on Multimodal Transportation (ISMT 2025)
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

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)