Qihang Sun | Curriculum Vitae

https://github.com/XZhoou   https://xzhoou.top

✉ sunqihang@buaa.edu.cn / sunxzhoou@gmail.com   ☐ (+86) 158-3800-8575

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
- **The First Prize Academic Scholarship**, Beihang University, 2024
- **Merit Student**, Beihang University, 2024
- **Excellent League Member**, Beihang University, 2024
- **Best Paper Award**, The 5th Frontier Symposium on Traffic Behavior and Transportation Science, 2024
- **Freshmen Scholarship**, Beihang University, 2023
- **Outstanding Graduate Student**, Beihang University, 2023
- **Merit Student**, Beihang University, 2022
- **Model Student of Academic Records**, Beihang University, 2022
- **The Grand Price Academic Scholarship**, 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 Price Academic Scholarship**, Beihang University, 2021
- **Outstanding Volunteer**, Beihang University, 2021

INTERNSHIP EXPERIENCE

Ministry of Industry and Information Technology	2022.03-2022.09
Undergraduate Research 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**
Submitted to Transportation Research Part B: Methodological, First-Round Revision
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

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

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)

REFERENCES

○ **Dr. Ren-Yong Guo**
Professor, School of Economics and Management
Beihang University, Beijing, CHN
Email: guorenyong@buaa.edu.cn