

# Qi-Hang Sun | Curriculum Vitae

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

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## RESEARCH INTERESTS

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

## EDUCATION

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<b>Beihang University</b> <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>	<b>Beijing, CHN</b> 2023.09 - Present
<b>Beihang University</b> <i>B.S. in Biomedical Engineering (Minor)</i>	<b>Beijing, CHN</b> 2020.09 - 2023.06
<b>Beihang University</b> <i>B.S. in Information Management and Information System</i>	<b>Beijing, CHN</b> 2019.09 - 2023.06

## AWARDS & HONORS

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- **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

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

## SKILLS

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<b>Programming</b>	Python, R, Matlab, C, SQL, L <sup>A</sup> T <sub>E</sub> X
<b>Languages</b>	Chinese ( <i>Native</i> ), English ( <i>Conversational</i> )
<b>Software</b>	MS Office, IBM SPSS
<b>Sports</b>	Football, Badminton, Table tennis

## PUBLICATIONS

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- **Reservation scheme for congestion management during morning commute: Considering noncompliance**  
*Submitted to Transportation Research Part C: Emerging Technologies*  
Qi-Hang Sun, Ren-Yong Guo
- **Reservation-based morning commute management under noncompliance: auction and reallocation**  
*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
- **Quantifying reservation-scheme effectiveness and noncompliance-induced efficiency loss: Evidence from a large-scale morning-commute simulation**  
*Working paper*  
Qi-Hang Sun, Ren-Yong Guo

## CONFERENCE TALKS

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- **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*
- **Seminar Series 2025/2026, Future Cities Lab**, Online, 2026.04  
*Oral Presentation*

## SELECTED COURSES

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- **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)