

QIAN GE

School of Economics and Management
Southwest Jiaotong University
#111 2nd Ring Road, North Section 1
Jinniu district, Chengdu, Sichuan 610031, China

Email : geqian@outlook.com
geqian@swjtu.edu.cn
Website : nlperic.github.io
Sept 2026

Current and Previous Academic Positions

Southwest Jiaotong University Associate Professor Department of Information Systems and Operations Management, School of Economics and Management	Feb 2025 –
The University of Tokyo Visiting Associate Professor Department of Civil Engineering, School of Engineering	Mar 2025 – Sept 2025
Southwest Jiaotong University Associate Professor Department of Traffic Engineering, School of Transportation and Logistics	Oct 2019 – Jan 2025 tenured in 2021
Imperial College London Visiting Researcher Department of Civil and Environmental Engineering	May 2017 – Jun 2017
Tokyo Institute of Technology Research Fellow Department of Civil and Environmental Engineering	Mar 2017 – Sept 2019 <i>Tejima Seichi Award</i>

Education

Tokyo Institute of Technology <i>Ph.D. in Transportation Engineering</i> ↔ Advisor: Prof. Daisuke Fukuda Thesis: <i>Data-Driven and Macroscopic Approaches for Estimating Origin-Destination Travel Demand</i> Department of Civil and Environmental Engineering	Oct 2013 – Mar 2017 <i>Kikkawa-Yamaguchi Award</i> <i>MEXT Scholarship</i>
Tokyo Institute of Technology <i>Research Student (non-degree)</i> Department of Civil and Environmental Engineering	Oct 2012 – Sept 2013 <i>MEXT Scholarship</i>
Tsinghua University <i>M.E. in Logistics Engineering</i> Department of Industrial Engineering and Shenzhen Graduate School	Sept 2010 – Jun 2012
Southeast University <i>B.M. in Engineering Management</i> School of Civil Engineering	Sept 2006 – Jun 2010

Awards

Mentor for Student Operations Research Competition of ORSC, 1st Prize	September 2026
Mentor for Student Operations Research Competition of ORSC, 2nd Prize	September 2025
Science and Technology Progress Award of ITS China, 2nd Prize	November 2024
Seiichi Tejima Award	January 2019
Kikkawa-Yamaguchi Award	December 2018
16th Behavior in Networks Research Workshop Award	October 2017
MEXT Scholarship for doctoral students	October 2013-October 2016
MEXT Scholarship for research students	October 2012-October 2013

Publications

I have published journal articles in the fields of transportation, logistics, and smart cities, including 7 in the prestigious *Transportation Research* series and 2 in special issues of the *International Symposium on Transportation and Traffic Theory (ISTTT)*.

Selected Journal Articles

- [1] **Qian Ge***, Shenglin Liu, Ke Han, Yuki Oyama, and Daisuke Fukuda. A revenue-maximizing share-a-ride problem with consideration of recipients' roaming locations. *Transportation Research Part C: Emerging Technologies*, 194A:106019, 2027.
- [2] Wen Ji, Ke Han, and **Qian Ge**. Route planning of mobile sensing fleets for repeatable environmental monitoring tasks. *Computers, Environment and Urban Systems*, 119:102285, 2025.
- [3] Shenglin Liu, **Qian Ge***, Ke Han, Daisuke Fukuda, and Takao Dantsuji. Mechanism design for coordinating vehicle-based mobile sensing tasks within the ride-hailing platform. *Transportation Research Part C: Emerging Technologies*, 176:105151, 2025.
- [4] Lei Yu, **Qian Ge***, Ke Han, Wen Ji, and Yueqi Liu. Designing subsidies and recycling plans for sustainable construction and demolition waste treatment. *Transportmetrica A: Transport Science*, pages 1–35, 2025.
- [5] Ke Han, Tao Huang, Wenbo Fan, **Qian Ge**, Shihui Dong, and Xuting Wang. Macroscopic fundamental diagram with volume–delay relationship: Model derivation, empirical validation and invariance property. *Transportation Research Part C: Emerging Technologies*, 166:104739, 2024.
- [6] Yuxin Hong, Weiyang Yan, and **Qian Ge***. Designing sustainable logistics networks for classified municipal solid wastes collection and transferring with multi-compartment vehicles. *Sustainable Cities and Society*, 99:104921, 2023.
- [7] **Qian Ge**, Ke Han, and Xiaobo Liu. Matching and routing for shared autonomous vehicles in congestible network. *Transportation Research Part E: Logistics and Transportation Review*, 156:102513, 2021.
- [8] Takao Dantsuji, Shin Hirabayashi, **Qian Ge**, and Daisuke Fukuda. Cross comparison of spatial partitioning methods for an urban transportation network. *International Journal of Intelligent Transportation Systems Research*, 18:412–421, 2020.
- [9] **Qian Ge***, Daisuke Fukuda, Ke Han, and Wenjing Song. Reservoir-based surrogate modeling of dynamic user equilibrium. *Transportation Research Part C: Emerging Technologies*, 113:350–369, 2020.
- [10] **Qian Ge*** and Daisuke Fukuda. A macroscopic dynamic network loading model for multiple-reservoir system. *Transportation Research Part B: Methodological*, 126:502–527, 2019.
- [11] **Qian Ge*** and Daisuke Fukuda. Updating origin–destination matrices with aggregated data of gps traces. *Transportation Research Part C: Emerging Technologies*, 69:291–312, 2016.

* corresponding author

Invited Talks

University of Tokyo, Japan	June 14, 2025
Southeast University, China	November 26, 2025
Shenzhen University of Technology, China	August 24, 2026

Grants

Co-PI An Airline Company Topic: crew scheduling	Jun 2025 – May 2026 ¥40,000
PI Chengdu Technology Bureau, China Topic: developing a mobility-as-a-service system	Jun 2023 – May 2024 ¥100,000
PI Natural Science Foundation of Sichuan Province, China Topic: Operational management of the ride-hailing market	Jan 2022 – Dec 2023 ¥100,000
PI National Natural Science Foundation of China Topic: Incentive mechanism design for the ride-hailing market	Jan 2021 – Dec 2024 ¥300,000

Teaching

Undergraduate

Data Structures and Algorithms	Fall 2022-2023, Spring 2023-2024
Traffic Engineering Fundamentals	Spring 2022-2024 (SWJTU), Spring 2023-2024 (UESTC)
Database Technologies with Applications	Fall 2019-2021; Spring 2021
Logistics Systems Analysis	Fall 2021, 2023-2026

Advanced Techniques in Information Management	Spring 2026
Big Data Analytics and Intelligent Systems	Fall 2025, 2026
Optimization Theory and Methods	Spring 2022-2024
Frontiers in Systems Science	Fall 2020-2023
Systems Science Theory and Methods	Fall 2020-2023

Services

Referee Transportation Research Part A/B/C/D/E, Computer-Aided Civil and Infrastructure Engineering, Sustainable Cities and Society, Networks and Spatial Economics, IET Intelligent Transport Systems