QIAN GE

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

Website **b**:

geqian@outlook.com geqian@swjtu.edu.cn nlperic.github.io July 2025

Current and Previous Academic Positions	
University of Tokyo Visiting Associate Professor Department of Civil Engineering, School of Engineering	Mar 2025 –
Southwest Jiaotong University Associate Professor Department of Information Systems and Operations Management, School of Econom	${\bf Feb}~{\bf 2025}-$ ics and Management
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 Tejima Seichi Award
Education	
Tokyo Institute of Technology <i>Ph.D. in Transportation Engineering</i> \hookrightarrow Advisor: Prof. Daisuke Fukuda Thesis: <i>Data-Driven and Macroscopic Approaches for Estimating Origin-Destination</i> Department of Civil and Environmental Engineering	Oct 2013 – Mar 2017 Kikkawa-Yamaguchi Award Travel Demand MEXT Scholarship
Tokyo Institute of Technology <i>Research Student</i> (non-degree) Department of Civil and Environmental Engineering	Oct 2012 – Sept 2013 MEXT Scholarship
Tsinghua University <i>M.E. in Logistics Engineering</i> Department of Industrial Engineering and Shenzhen Graduate School	Sept 2010 – Jun 2012
Southeast University B.M. in Engineering Management School of Civil Engineering	Sept 2006 – Jun 2010
Awards —	
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 9 journal articles in the fields of transportation, smart cities, and related areas, including 6 in the prestigious Transportation Research series and 2 in special issues of the International Symposium on Transportation and Traffic Theory (ISTTT).

Journal Articles —

- [1] 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.
- [2] 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.

- [3] 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.
- [4] 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.
- [5] **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.
- [6] 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.
- [7] **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.
- [8] **Qian Ge**^{*} and Daisuke Fukuda. A macroscopic dynamic network loading model for multiple-reservoir system. Transportation Research Part B: Methodological, 126:502–527, 2019.
- [9] **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

Grants –

PI Chengdu Technology Bureau, China Topic: a mobility-as-a-service system

PI Natural Science Foundation of Sichuan Province, China Topic: operational management of the ride-hailing market

PI National Natural Science Foundation of China Topic: incentive mechanism design for the ride-hailing market

Teaching -

Data Structures and Algorithms Traffic Engineering Fundamentals Database Technologies with Applications Logistics Systems Analysis Jun 2023 – May 2024 ¥100,000

Jan 2022 – Dec 2023 ¥100,000

Jan 2021 – Dec 2024 ¥300,000

Undergraduate

Fall 2022-2023, Spring 2023-2024 Spring 2022-2024, Spring 2023-2024 (UESTC) Fall 2019-2021; Spring 2021 Fall 2021, 2023

- Graduate

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

Services -

Referee Transportation Research Part A/B/C/D/E, Sustainable Cities and Society, Networks and Spatial Economics, IET Intelligent Transport Systems