

GE QIAN

CONTACT INFO.	School of Transportation and Logistics Southwest Jiaotong University Comprehensive Building 806, Xipu Campus Chengdu 611756, China	<i>E-mail:</i> geqian@outlook.com <i>website:</i> https://nlperic.github.io/
RESEARCH INTEREST	<ul style="list-style-type: none">• Traffic network modeling: traffic flow theory; dynamic traffic assignment• Operations research: mathematical optimization and variational inequalities (VI) with application in transportation network• Data-driven analysis: statistical learning, surrogate modeling, spatial data analysis	
EXPERIENCES	Southwest Jiaotong University, China <ul style="list-style-type: none">• Associate Professor	Oct 2019-
	Tokyo Institute of Technology, Japan <ul style="list-style-type: none">• Research Fellow	April 2017-Sept 2019
	Imperial College London, U.K. <ul style="list-style-type: none">• Visiting Researcher	May 2017- June 2017
	Tokyo Institute of Technology, Japan <ul style="list-style-type: none">• Research Student	Oct 2012 - Sept 2013
EDUCATION	Tokyo Institute of Technology, Japan <ul style="list-style-type: none">• Ph.D. in Transportation• Research Topic: <i>Data-driven and macroscopic approaches for estimating origin-destination travel demands</i>• Advisor: Associate Professor Daisuke Fukuda	Oct 2013 - Mar 2017
	Tsinghua University, China <ul style="list-style-type: none">• M.E., Department of Industrial Engineering	Sept 2010 - Jul 2012
	Southeast University, China <ul style="list-style-type: none">• B.S., College of Civil Engineering	Sept 2006 - Jun 2010
WORKING PAPERS	1. Noriko Kaneko, Daisuke Fukuda and <u>Qian Ge</u> . Congestion pricing for Markovian traffic system	
JOURNAL ARTICLES	4. Dantsuji Takao, Shin Hirabayashi, <u>Qian Ge</u> , and Daisuke Fukuda. Cross comparison of spatial partitioning methods for urban transportation network, <i>International Journal of Intelligent Transportation Systems Research</i> , accepted	
	3. <u>Qian Ge</u> , Daisuke Fukuda, Ke Han and Wenjing Song. Reservoir-based surrogate modeling of dynamic user equilibrium, <i>Transportation Research Part C: Emerging Technologies</i> , in press, 2019	

2. Qian Ge, and Daisuke Fukuda. A macroscopic dynamic network loading model for multiple-reservoir system , *Transportation Research Part B: Methodological*, 126, 502-527, 2019
1. 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

CONFERENCES

9. Qian Ge, Daisuke Fukuda, Ke Han and Wenjing Song. Reservoir-based surrogate modeling of dynamic user equilibrium, *International Symposium on Transportation and Traffic Theory*, Lausanne, Switzerland, 2019
8. Shin Hirabayashi, Takao Dantsuji, Qian Ge and Daisuke Fukuda. Cross comparison of spatial partitioning methods for urban transportation network, *International Symposium of Transport Simulation and the International Workshop on Traffic Data Collection and its Standardization, (ISTS and IWTDCS 2018)*, Ehime, Japan, 2018
7. Qian Ge, Ke Han, Haoran Fu and Daisuke Fukuda. A dynamic system optimal model for hybrid network of reservoirs and connecting links, *International Symposium on Dynamic Traffic Assignment (DTA2018)*, Hong Kong, China, 2018
6. Qian Ge, Jiangshan Ma, and Daisuke Fukuda. A Dynamic Network Loading Model Using Macroscopic Traffic Dynamics for Multiple-Reservoir System, *Transportation Research Board 96th Annual Meeting*, 17-06533, Washington D.C., U.S., 2017
5. Jiangshan Ma, Qian Ge, and Daisuke Fukuda. Developing and Testing Adaptive Vehicle Navigation in the Field, *Transportation Research Board 96th Annual Meeting*, 17-03882, Washington D.C., U.S., 2017
4. Qian Ge, and Daisuke Fukuda. A macroscopic approach for inferring dynamic origin-destination demand, *International Symposium on Dynamic Traffic Assignment (DTA2016)*, Sydney, Australia, 2016
3. Qian Ge, Pengfei Wang and Daisuke Fukuda. A community detection method for identifying neighborhoods of MFD, *Hong Kong Society of Transport Studies annual conference, Hong Kong(HKSTS)*, 2016
2. Qian Ge, and Daisuke Fukuda. Work/school-related travel demand estimation from aggregate datasets, *International Conference on Transport Survey Methods (ISCTSC)*, Leura, Australia, 2014
1. Qian Ge, and Daisuke Fukuda. *JSCE Committee of Infrastructure Planning and Management Conference*, Sendai, Japan, 2014

DISTINCTIONS

- Seiichi Tejima International Student Research Award , Jan 2019
- Kikkawa-Yamaguchi Award for Excellent Doctoral Dissertation, Dec 2018
- Best Research Award, 16th Behavior in Networks Research Workshop, Oct 2017
- Japanese Government (MEXT) Scholarship for doctoral students, Oct 2013-Sept 2016
- Japanese Government (MEXT) Scholarship for research students, Oct 2012-Sept 2013

SERVICES

Co-advisor: Noriko Kaneko (master student, Dean's Award)
Shin Hirabayashi (bachelor student)

Reviewer:

Transportation Research Part C: Emerging Technologies (1)
Transportation Research Part E: Logistics and Transportation Review (1)
Networks and Spatial Economics (2)
Sustainable Cities and Society (1)
IET Intelligent Transport System (1)

TECHNICAL SKILLS

Languages: 中文 (native), English, 日本語 (JLPT N2)
Operating System: OSX, Linux/Unix, Windows
Programming: Java, Python(numpy, scipy, matplotlib, pandas, cython, etc.)
C/C++, PostgreSQL, MongoDB, JSON, XML
Applications: T_EX/L^AT_EX, QGIS, PostGIS, Github, gurobi, cplex, etc.