

Hai Wang

CONTACT INFORMATION

Office 5031, School of Computing and Information Systems
80 Stamford Road, Singapore Management University
Singapore 178902

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Phone: +65 6828-0088
<http://www.wang-hai.net>

ACADEMIC POSITIONS

Singapore Management University Singapore
School of Computing and Information Systems
Associate Professor (with tenure) Nov. 2021 – Present
Assistant Professor Jul. 2015 – Oct. 2021

Carnegie Mellon University Pittsburgh, Pennsylvania, USA
Heinz College of Information Systems and Public Policy
Visiting Assistant Professor Aug. 2019 – Dec. 2020

EDUCATION

Massachusetts Institute of Technology Cambridge, Massachusetts, USA
Ph.D. in Operations Research Jul. 2012 – Jun. 2015
Co-advisors: Amedeo Odoni, Cynthia Barnhart (MIT's Provost)
Thesis Committee: Amedeo Odoni, Cynthia Barnhart, Patrick Jaillet

Massachusetts Institute of Technology Cambridge, Massachusetts, USA
Master of Science in Operations Research Aug. 2010 – Jun. 2012
Master of Science in Transportation Aug. 2009 – Jun. 2012

Tsinghua University Beijing, China
Bachelor of Science (Highest Honors) in Civil Engineering Aug. 2005 – Jul. 2009
Rank: 1st/90

RESEARCH INTERESTS

Methodologies

1. Data-Driven Optimization
2. Large-Scale Data Analytics
3. Advanced Computing Methods
4. Machine Learning

Domains

1. Smart Cities and Smart Society
2. Transportation and Mobility
3. Logistics and Healthcare
4. Shared Services and Sharing Economy

EDITORIAL SERVICES

1. Associate Editor. **Transportation Science** 2021 – Present
2. Associate Editor. **Service Science** 2022 – Present
3. Editorial Board Member. 2022 – Present
Transportation Research Part C: Emerging Technologies
4. Editorial Board Member. 2021 – Present
Transportation Research Part E: Logistics and Transportation Review
5. Guest Editor. **Transportation Science** 2024 – Present
*Special Issue on Machine Learning, Analytics,
and Optimization in Home Delivery Operations*
6. Guest Editor. 2022 – 2024
Transportation Research Part C: Emerging Technologies
*Special Issue on Emerging On-Demand Passenger and
Logistics Systems: Modelling, Optimization, and Data Analytics*

7. Guest Editor. **Service Science** 2020 – 2023
Special Issue on Innovation in Transportation-Enabled Urban Services
8. Guest Editor. **Transportation Research Part B: Methodological** 2018 – 2021
Special Issue on Innovative Shared Transportation

INDUSTRY POSITIONS

1. Chief Data Officer. **SMART M3S on Artificial Intelligence** 2023 – Present
Singapore-MIT Alliance for Research and Technology, Mens Manus and Machina
2. Co-Founder and Chief Scientist. **MilkRun SG** 2021 – 2023
Crowd-Sourcing On-Demand Delivery

BOOKS AND CHAPTERS

1. Wang, H. and Odoni, A. **Operations Research and Analytics for Smart Cities** (in preparation).
2. Wang, H. and Zhang, P.Y. **Landscape of General Artificial Intelligence Tools: A Practical Manual** (in preparation).
3. Ke, J., Yang, H., Wang, H. and Yin, Y. **Supply and Demand Management in Ride-Sourcing Markets**, Elsevier, 2023.
4. Sun, H., Wang, H. and Wan, Z. Model and Analysis of Service Labor Supply for Shared Transportation. Chapter in **Business Management with Big Data**, J. Chen (Ed.), 2020.
5. Bai, J., So, K., Tang, C., Chen, X. and Wang, H. Time-Based Payout Ratio for Coordinating Supply and Demand on an On-Demand Service Platform. Chapter in **Sharing Economy: Making Supply Meet Demand**, M. Hu (Ed.), in **Springer Series in Supply Chain Management**, C. Tang (Series Ed.), 2019.

SELECTED JOURNAL PUBLICATION

1. Lyu, G., Cheung, W., Teo, C. and Wang*, H., 2024. Multi-Objective Stochastic Optimization: A Case of Real-Time Matching in Ride-Sourcing Markets. **Manufacturing and Service Operations Management**, 26(2), 500-518.
2. Agatz, N., Cho, S., Sun, H. and Wang*, H., 2024. Transportation-Enabled Services: Concept, Framework, and Research Opportunities. **Service Science**, 16(1), 1-21.
3. Yang, J., Lau, H. and Wang*, H., 2024. Optimization of Customer Service Area and Driver Dispatch Area for On-Demand Food Delivery. **Transportation Research Part C: Emerging Technologies** (in press).
4. Wang, H., Lu, T., Zhang, Y., Wu, Y., Sun, Y., Dong, J. and Huang, W., 2023. Last Digit Tendency: Lucky Number and Psychological Rounding in Mobile Transactions. **Fundamental Research** (in press).
5. Guo, X., Haupt, A., Wang*, H., Qadri, R. and Zhao, J., 2023. Understanding Multi-Homing and Switching by Platform Drivers. **Transportation Research Part C: Emerging Technologies**, 154, 104233.
6. Wang, Y., Liu, C, Wang*, H. and Duong V., 2023. Slot Allocation for a Multiple-Airport System Considering Airspace Capacity and Flying Time Uncertainty. **Transportation Research Part C: Emerging Technologies**, 153, 104185.
7. Bahrami, S., Nourinejad, M., Yin, Y. and Wang, H., 2023. The Three-Sided Market of On-Demand Delivery. **Transportation Research Part E: Logistics and Transportation Review**, 179, 103313.
8. Liang, J., Ke, J., Wang, H., Ye, H. and Tang, J., 2023. A Poisson-Based Distribution Learning Framework for Short-Term Prediction of Food Delivery Demand Ranges. **IEEE Transactions on Intelligent Transportation Systems**, 24(12), 14556-14569.
9. Yang, J., Wang, H. and Jin, J., 2023. Optimization of Station-Skip in a Cyclic Express Subway Service. **Networks and Spatial Economics**, 23, 445–468.

10. Wang*, H., 2022. Transportation-Enabled Urban Services: A Brief Discussion. **Multimodal Transportation** (Editorial by Invitation), 1(2), 100007.
11. Li, X., Li, X., Wang, H., Shi, J. and Aneja, Y., 2022. Supply Regulation under the Exclusion Policy in a Ride-Sourcing Market. **Transportation Research Part B: Methodological**, 166, 69-94.
12. Zhou, Y., Yang, H., Ke, J., Wang, H. and Li, X., 2022. Competition and Third-Party Platform-Integration in Ride-Sourcing Markets. **Transportation Research Part B: Methodological**, 159, 76-103.
13. Jin, J., Meng, Q. and Wang#, H., 2021. Feeder Vessel Routing and Transshipment Coordination at a Congested Hub Port. **Transportation Research Part B: Methodological**, 151, 1-21.
14. Zhu, Z., Ke, J. and Wang, H., 2021. A Mean-Field Markov Decision Process Model for Spatial-Temporal Subsidies in Ride-Sourcing Markets. **Transportation Research Part B: Methodological**, 150, 540-565.
15. Shehadeh, K., Wang#, H. and Zhang, P.Y., 2021. Fleet Sizing and Allocation for On-Demand Last-Mile Transportation Systems. **Transportation Research Part C: Emerging Technologies**, 132, 103387.
16. Ke, J., Yang, H., Li, X., Wang*, H. and Ye, J., 2020. Pricing and Equilibrium in On-Demand Ride-Pooling Markets. **Transportation Research Part B: Methodological**, 139, 411-431.
17. Ho, K., Wang, H., DeTrempe, P., Sarton, T. and Tomita, K., 2020. Semi-Analytical Model for Design and Analysis of On-Orbit Servicing Architecture. **Journal of Spacecraft and Rockets**, 57(6), 1129-1138.
18. Yang, H., Shao, C., Wang*, H. and Ye, J., 2020. Integrated Reward Scheme and Surge Pricing in a Ride-Sourcing Market. **Transportation Research Part B: Methodological**, 134, 126-142.
19. Zhang, Y., Luo, H., Wang, H., Zheng, Z. and Ooi, O., 2020. Validation of Prognostic Accuracy of the SOFA Score, SIRS Criteria, and qSOFA Score for In-Hospital Mortality among Cardiac-, Thoracic-, and Vascular-Surgery Patients Admitted to a Cardiothoracic Intensive Care Unit. **Journal of Cardiac Surgery**, 35(1), 118-127.
20. Wang*, H., 2019. Routing and Scheduling for a Last-Mile Transportation System. **Transportation Science**, 53(1), 131-147.
21. Wang, H. and Yang, H., 2019. Ride-Sourcing Systems: A Framework and Review. **Transportation Research Part B: Methodological**, 129, 122-155.
22. Bai, J., So, K., Tang, C., Chen, X. and Wang, H., 2019. Coordinating Supply and Demand on an On-Demand Service Platform with Impatient Customers. **Manufacturing and Service Operations Management**, 21(3), 556-570.
23. Sun, H., Wang*, H. and Wan, Z., 2019. Model and Analysis of Labor Supply for Ride-Sharing Platforms in the Presence of Sample Self-Selection and Endogeneity. **Transportation Research Part B: Methodological**, 125, 76-93.
24. Chen, Y. and Wang*, H., 2018. Pricing for a Last-Mile Transportation System. **Transportation Research Part B: Methodological**, 107, 57-69.
25. Luo, Y. and Wang#, H., 2017. Core Determining Class and Inequality Selection. **American Economic Review: Papers and Proceedings**, 107(5), 274-277.
26. Wang*, H. and Odoni, A., 2016. Approximating the Performance of a Last-Mile Transportation System. **Transportation Science**, 50(2), 659-675.

CONFERENCE AND OTHER PUBLICATION

1. Ke, J., Wang*, H., Masoud, N., Schiffer, M. and Correia, G., 2024. Editorial—Emerging On-Demand Passenger and Logistics Systems: Modelling, Optimization, and Data Analytics. *Transportation Research Part C: Emerging Technologies*, 161, 104574.
2. Agatz, N., Cho, S., Wang#, H. and Benjaafar, S., 2023. Introduction to the Special Issue on Innovation in Transportation-Enabled Urban Services, Part 1. *Service Science*, 15, 1-2.
3. Nie, M., Wang, H. and Szeto, W.Y., 2023. Editorial—Innovative Shared Transportation. *Transportation Research Part B: Methodological*, 171, 1-2.
4. Zhu, Z., Ke, J. and Wang, H., 2021. A Mean-Field Markov Decision Process Model for Spatial-Temporal Subsidies in Ride-Sourcing Markets. *Proceedings of the 24th International Symposium on Transportation and Traffic Theory (ISTTT24)*.
5. Agatz, N., Cho, S., Wang#, H. and Benjaafar, S., 2021. Call for Papers—Special Issue of Service Science: Innovation in Transportation-Enabled Urban Services. *Service Science*, 13, 51-52.
6. Wang*, H. and Wang, Z., 2020. Short-Term Repositioning for Empty Vehicles on Ride-Sourcing Platforms. *Proceedings of the INFORMS TSL Second Triennial Conference*.
7. Lyu, G., Cheung, W., Teo, C. and Wang*, H., 2019. Matching Passengers and Drivers with Multiple Objectives in Ride Sharing Markets. *Proceedings of the Tenth Triennial Symposium on Transportation Analysis (TRISTAN X)*.
8. Kulkarni, K., Lau, H., Wang, H., Sivabalasingam, S. and Tran, K., 2018. Design and Implementation of Decision Support for Traffic Management at Multipurpose Port Gates. *Proceedings of the 2018 Winter Simulation Conference*.
9. Jin, J., Meng, Q. and Wang#, H., 2018. Column Generation Approach for Feeder Vessel Routing and Synchronization at a Congested Transshipment Port. *Proceedings of Odysseus 2018—7th International Workshop on Freight Transportation and Logistics*.
10. Wang*, H., Jin, J. and Yang, J., 2018. Optimization of a Cyclic Express Subway Service. *Proceedings of the 6th Intl. Symposium on Reliability Engineering and Risk Management*.
11. Kulkarni, K., Tran, K., Wang, H. and Lau, H., 2017. Efficient Gate System Operations for a Multi-Purpose Port using Simulation Optimization. *Proceedings of the 2017 Winter Simulation Conference*.
12. Wang*, H., Jin, J. and Lin, M., 2013. Solving the Railway Yard Operation Problem: Greedy Heuristics, Integer Programming Models, and Waiting Time Approximations. *Technical Report for 2013 INFORMS RAS (Railway Application Society) Problem Solving Competition (First Prize Winner)*.
13. Wang*, H. and Odoni, A., 2013. Approximate Design Parameters for a Last-Mile Transportation System. *Proceedings of the Eighth Triennial Symposium on Transportation Analysis (TRISTAN VIII)*.

WORKING PAPERS

1. Sun, H., Wang*, H. and Yang, H., Vehicle-Based Multi-Service (VeMuS) for Future Urban Mobility: Concept and Research Visions.
2. Luo, Y. and Wang#, H., Identifying and Computing the Exact Core-Determining Class.
3. Chen, Y. and Wang*, H., Why Are Fairness Concerns So Important? Lessons from a Last-Mile Transportation System.
4. Chen, H. and Wang#, H., When a Platform Competes with Third-Party Sellers in Networked Markets: A Revenue Management Perspective.
5. Benjaafar, S., Li, X., Wang#, H. and Yang, X., Telemedicine: Not Just If, But How It Bridge Healthcare Equity.
6. Lu, T., Lu, X., Huang, Y. and Wang, H., Can Reciprocal Wisdom Come True? Exploring Human Responses to AI Capability Augmentation.

MEDIA ARTICLES

1. Wang*, H. and Sun, H. 2020. Food Delivery: Platform Design, Operations, and Regulations. *Tencent Tech, Sina Finance, Sina Tech, Sohu News*.
2. Wang*, H. and Sun, H. 2020. Food Delivery (Part 1): Tolerance to Fault. *The Paper (Pengpai News)*.
3. Wang*, H. and Sun, H. 2020. Food Delivery (Part 2): How Governments Regulate. *The Paper (Pengpai News)*.

HONORS AND AWARDS

1. Short-list for **Teaching Excellence Award** at Singapore Management University 2024
2. Transportation Science Meritorious Service Award (Associate Editor) 2023
3. Top 1% Best Teaching at Singapore Management University 2023
4. Transportation Science Meritorious Service Award (Associate Editor) 2022
5. Lee Kong Chian Fellowship for **Research Excellence Award** 2022, 2023
6. Transportation Science Meritorious Service Award (Reviewer) 2021
7. PwC Risk and Regulatory Service Innovation Research Award 2020
8. **Outstanding Paper Award**, The 3rd Conference of the Yangtze-River Research and Innovation Belt 2020
9. Fellow, Chan Wui & Yunyin **Rising Star Workshop** in Mobility and Transportation 2019
10. Lee Kong Chian Fellowship for **Research Excellence Award** 2018, 2019
11. **Best Paper Award**, The 10th International Workshop on Computational Transportation Science (CTS) 2018
12. **Junior Faculty Teaching Excellence Award** at Singapore Management University 2017
13. Short-list Nominee for Goodwin Medal of MIT **Graduate Student Teaching Excellence Award** 2014
14. Semifinalist in MIT 100K Entrepreneurship Competition (Project: Shared Logistics) 2014
15. **First Prize** Winner in INFORMS RAS Problem Solving Competition 2013
16. MIT Chyn Duog Shiah Memorial Fellowship for Excellent Ph.D. Student 2009 – 2010
17. National Award for Excellent Graduate (Top **0.1%**), China Civil Engineering Society 2009
18. Graduation with Highest Honors (Top **1%**), Tsinghua University 2009
19. **Ranked 1st** in Department of Civil Engineering, Tsinghua University 2009
20. Jiang Nanxiang **Presidential Fellowship**, Tsinghua University 2008
21. National Scholarship, Ministry of Education, China 2008
22. First Class Honors Fellowship, Tsinghua University 2005 – 2008
23. **Ranked 1st** in NCEE Subject of Comprehensive Science, Sichuan, China 2005

TEACHING EXPERIENCE

1. **Carnegie Mellon University**, Instructor
 - Decision Making under Uncertainty 2019 – 2020
Last student evaluation: 4.67/5.00
 - Capstone Project for M.S. in Business Analytics and Information Systems 2019 – 2021
Last student evaluation: 5.00/5.00
2. **Singapore Management University**, Instructor
 - Smart City Operations Research 2022 – 2024
Last student evaluation: 7.00/7.00
 - Spreadsheet Modeling and Analytics 2020 – 2024
Last student evaluation: 6.92/7.00
 - Computer as an Analysis Tool 2015 – 2019
Last student evaluation: 6.78/7.00
3. **MIT**, Guest Lecturer
 - Deep Learning for Urban Mobility Oct. 2019
4. **Tsinghua University**, Guest Lecturer
 - Regulations of Platform and Sharing Economy Dec. 2020
 - Urban Operations Research May 2017
5. **Peking University**, Guest Lecturer
 - Data Analytics and Decision Making Apr. 2021
6. **Carnegie Mellon University**, Guest Lecturer
 - Decision Analytics for Business and Policy 2020 – 2022
 - Innovative and Sustainable Operations Apr. 2020
7. **Singapore Management University**, Guest Lecturer
 - Artificial Intelligence Translational Research 2018, 2022
 - Big Data and Entrepreneurship: Methodology and Case Studies 2016 – 2019
 - Coaching for a Business Plan Competition Jul. 2016
8. **Singapore University of Technology and Design**, Guest Lecturer
 - Optimization Oct. 2017
9. **MIT**, Teaching Assistant
 - Logistical and Transportation Planning Methods (Urban O.R.) Fall 2012, 2013
Last Student Evaluation: 6.90/7.0

ACADEMIC MENTORSHIP

1. Co-Advisor for Postdocs
 - Yubin Liu (Imperial College London, Ph.D. 2024)
 - Dingtong Yang (University of California, Irvine, Ph.D. 2022)
 - Siong Thye Goh (MIT Sloan Ph.D. 2018)
2. Committee or Research Co-Advisor for Ph.D. Students
 - Hao Hao (CMU Heinz)
 - Guanting Wu (CMU Heinz)
 - Wenjia Zeng (HKUST Civil)
 - Yue Lin (HKUST Civil)
 - Jingfeng Yang (SMU SCIS 2023)
 - Yan He (SMU LKCSB 2022)

3. Committee or Research Co-Advisor for DBA Students

- Jie Gu (SMU-SJTU)
- Yong Zhang (SMU-CKGSB)
- Youbing Cao (SMU-SJTU)
- Lei Wang (SMU-SJTU)
- Hongxia Zhang (SMU-CKGSB)
- Xiangdong Wang (SMU-SJTU)
- Nanjing Li (SMU-SJTU 2022)
- Heng Li (SMU-SJTU 2021)

4. Committee or Research Co-Advisor for Master's Students

- Zihan Li (CMU Heinz 2021)
- Hao Hao (CMU Civil 2021)

RESEARCH GRANTS

1. National Research Foundation Singapore. Co-Principal Investigator. Project: Mens, Manus and Machina—How AI Empowers People, Institutions and the City in Singapore. Human Workers and Resource Allocation Optimization. 2023 – 2028. Award Amount: SG\$4,000,000.
2. Tokka Labs. Principal Investigator. Project: Data-Driven Optimization and Artificial Intelligence for Future Fintech. 2023 – 2025. Award Amount: SG\$156,000.
3. JPI Urban Europe and National Natural Science Foundation of China. Working Package Co-Investigator. Project: Sustainable Innovative Digitalized Networks of Urban Logistics. 2023 – 2026. Award Amount: EU€649,448, CNY¥2,000,000.
4. Meituan (the largest food delivery and location-based service provider in China). Co-Principal Investigator. Project: Analysis and Optimization of Customer and Rider Satisfaction in Food Delivery. 2021 – 2022. Award Amount: US\$108,000.
5. Mobility21 (A National University Transportation Center of Department of Transportation, USA). Co-Principal Investigator. Project: Joint Optimization of School Bus Routes and Last Mile Services. 2020 – 2021. Award Amount: US\$186,758.
6. PwC Risk and Regulatory Service Innovation Center. Principal Investigator. Project: Financial Crime Prediction and Detection. 2020. Award Amount: US\$26,604.
7. Singapore-MIT Alliance for Research and Technology Centre (SMART), Future Urban Mobility Group. Principal Investigator. Project: Matching in On-Demand Shared Transportation. 2019 – 2020. Award Amount: SG\$50,040.
8. Singapore MOE Tier 2 Academic Research Fund, Co-Principal Investigator. Project: Optimal Control of Medical Treatment using Predictive Information in ICUs. 2019 – 2022. Award Amount: SG\$620,532.
9. Didi Chuxing (the largest shared mobility platform in China), Principal Investigator. Project: Optimizing Driver Incentives through Understanding Driver Behavior. 2017 – 2018. Award Amount: SG\$10,000.
10. Didi Chuxing, Co-Principal Investigator. Project: Deep Learning Dynamic Demand Estimation and Pricing for Two-Sided Platform. 2017 – 2018. Award Amount: US\$15,000.
11. Singapore MOE Tier 1 Academic Research Fund, Co-Principal Investigator. Project: Predictive Data Analytics and Real-Time Risk Monitoring for Intensive Care Units. 2017 – 2019. Award Amount: SG\$149,710.
12. Singapore MOE Tier 1 Academic Research Fund, Principal Investigator. Project: Pricing and Design of a Last-Mile Transportation System with Multi-Type Users. 2016 – 2018. Award Amount: SG\$130,923.

INDUSTRY EXPERIENCE

1. Research Collaboration with Industry and Organizations

- Tokka Labs, Singapore Sep. 2023 – Present
- Ryde, Singapore Aug. 2023 – Present
- Changi Airport, Singapore Jul. 2023 – Present
- Grab, Singapore Jun. 2023 – Present
- Altonomy, Singapore Jul. 2022 – Present
- West China Hospital, Chengdu, China Feb. 2022 – Present
- Meituan, Beijing, China Jul. 2021 – Present
- Tencent, Shenzhen, China Jun. 2021 – Sep. 2023
- MilkRun, Singapore Mar. 2021 – Present
- Upwork, Santa Clara, California, USA Sep. 2020 – Present
- Candibell, Boston, Massachusetts, USA Aug. 2020 – Dec. 2022
- QL2, Baltimore, Maryland, USA Aug. 2020 – Dec. 2020
- PwC, Pittsburgh, Pennsylvania, USA Jun. 2020 – Dec. 2020
- Allies for Children, Pittsburgh, Pennsylvania, USA Dec. 2019 – Jun. 2021
- National University Hospital, Singapore Jul. 2017 – Dec. 2021
- Didi Chuxing, Beijing, China Jul. 2017 – Jun. 2019
- Fujitsu, Tokyo, Japan Jul. 2016 – Jun. 2018
- Jurong Port, Singapore Dec. 2015 – Jun. 2018
- Comfort Taxi, Singapore Dec. 2015 – Jun. 2017
- Land Transport Authority, Singapore Jul. 2015 – Jun. 2017

2. Visiting to Industry and Organizations

- Meituan, Beijing, China Feb. 2023 – Mar. 2023
- Didi Chuxing, Beijing, China Jun. 2017 – Jul. 2017
- Federal Aviation Administration (FAA), Washington, D.C., USA Jun. 2012 – Jul. 2012
- CPG Corporation, Singapore Jun. 2008 – Aug. 2008

PROFESSIONAL SERVICE

1. Scientific Committee Member for Conferences

- Winter Simulation Conference 2024, Orlando, Florida, USA
- Winter Simulation Conference 2023, San Antonio, Texas, USA
- INFORMS TSL Third Triennial Conference, Chicago, Illinois, USA
- The 13th POMS-HK International Conference, Hong Kong, China
- Winter Simulation Conference 2022, Singapore
- The 12th POMS-HK International Conference, Guangzhou/Hong Kong, China
- The 9th INFORMS TSL Workshop, Ahmedabad, India
- INFORMS TSL Second Triennial Conference, Arlington, Virginia, USA
- The 11th POMS-HK International Conference, Hong Kong, China
- The 10th POMS-HK International Conference, Hong Kong, China

2. Service in Academic and Professional Organizations

- International liaison for Asia, Australia, and New Zealand for INFORMS TSL
- Committee and Chair-Designate for INFORMS TSL Dissertation Award
- Co-Chair for INFORMS TSL First Data-Driven Research Challenge
- Committee for INFORMS TSL Cross-Region Collaborative Grant
- Board Member for INFORMS Service Science Section

3. Chair of Invited Session for Conferences

- INFORMS 2024 Annual Meeting, Seattle, Washington, USA Oct. 2024
- The 16th CSAMSE Conference, Xiamen, Fujian, China Jul. 2024
- The 14th POMS-HK International Conference, Hong Kong, China Jan. 2024
- INFORMS 2023 Annual Meeting, Phoenix, Arizona, USA Oct. 2023
- Winter Simulation Conference 2022, Singapore Dec. 2022
- INFORMS 2022 Annual Meeting, Indianapolis, Indiana, USA Oct. 2022
- INFORMS 2021 Annual Meeting, Anaheim, California, USA Oct. 2021
- IFORS 2021 Conference, Seoul, Korea Aug. 2021
- The 13th CSAMSE Conference, Shanghai, China Jul. 2021
- INFORMS 2020 Annual Meeting, National Harbor, Maryland, USA Nov. 2020
- The 11th POMS-HK International Conference, Hong Kong, China Jan. 2020
- INFORMS 2019 Annual Meeting, Seattle, Washington, USA Oct. 2019
- The 10th POMS-HK International Conference, Hong Kong, China Jan. 2019
- INFORMS 2018 Annual Meeting, Phoenix, Arizona, USA Nov. 2018
- The 6th INFORMS TSL Workshop, Hong Kong, China Jan. 2018
- INFORMS 2016 Annual Meeting, Nashville, Tennessee, USA Nov. 2016
- INFORMS 2014 Annual Meeting, San Francisco, California, USA Oct. 2014

4. Referee for Academic and Professional Organizations

- Netherlands Organisation for Scientific Research
- Hong Kong Research Grants Council
- Israel Science Foundation
- INFORMS TSL Cross-Region Collaborative Grant
- POMS Best Healthcare Paper Award
- POMS-China Best Student Paper Competition
- POMS-HK Best Student Paper Competition

5. Referee for Academic Journals and Peer-reviewed Conferences (in alphabetical order)

- AAAI Conference on Artificial Intelligence
- ACM Transactions on Economics and Computation
- ACM Transactions on Intelligent Systems and Technology
- ACM Transactions on Spatial Algorithms and Systems
- Applied Stochastic Models in Business and Industry
- Asia Pacific Viewpoint
- Behaviour and Information Technology
- BioMed Research International
- BMC Anesthesiology
- BMC Medical Informatics and Decision Making
- Canadian Journal of Civil Engineering
- Cardiovascular Therapeutics
- Cognitive Computation and Systems
- Complexity
- Computers and Industrial Engineering
- Computers and Operations Research
- Connection Science
- Critical Care Research and Practice
- Digital Health

- Discrete Dynamics in Nature and Society
- Economics of Transportation
- Electronic Commerce Research and Applications
- Engineering Applications of Artificial Intelligence
- ETRI Journal on Electronics and Telecommunications
- EURO Journal on Transportation and Logistics
- European Journal of Operational Research
- Frontiers in Future Transportation
- Frontiers of Engineering Management
- Global Business and Organizational Excellence
- IEEE Access
- IEEE Intelligent Transportation Systems Magazine
- IEEE Intelligent Vehicles Symposium
- IEEE Open Journal of the Communications Society
- IEEE Transactions on Aerospace and Electronic Systems
- IEEE Transactions on Artificial Intelligence
- IEEE Transactions on Automation Science and Engineering
- IEEE Transactions on Computational Social Systems
- IEEE Transactions on Intelligent Transportation Systems
- IEEE Transactions on Systems, Man and Cybernetics: Systems
- IET Energy Systems Integration
- IET Intelligent Transport Systems
- IISE Transactions
- Information Systems and Operational Research
- Information Systems Research
- INFORMS Journal on Computing
- INFORMS Journal on Optimization
- INFORMS TSL Triennial Conference
- INFORMS TSL Workshop
- International Conference on Machine Learning and Data Engineering
- International Journal of Communication Systems
- International Journal of Economics and Management
- International Journal of Geographical Information Science
- International Journal of Health Planning and Management
- International Journal of Industrial Organization
- International Journal of Information Technology and Decision Making
- International Journal of Production Economics
- International Journal of Sustainable Transportation
- International Journal of Systems Science: Operations and Logistics
- International Journal of the Economics of Business
- International Transactions in Operational Research
- ISTTT Conference
- Journal of Advanced Transportation
- Journal of Applied Mathematics
- Journal of Civil Engineering and Management
- Journal of Cleaner Production
- Journal of Economics and Management Strategy

- Journal of Forecasting
- Journal of General Management
- Journal of Innovative Digital Transformations
- Journal of Management Analytics
- Journal of Mathematics
- Journal of Operations Management
- Journal of Public Transportation
- Journal of Retailing and Consumer Services
- Journal of Social Service Research
- Journal of the American Medical Informatics Association
- Journal of Transport and Land Use
- Journal of Theoretical and Applied Electronic Commerce Research
- Journal of Urban Planning and Development
- Journal of Urban Technology
- Management: Journal of Sustainable Business and Management Solutions in Emerging Economies
- Management Science
- Managerial and Decision Economics
- Manufacturing and Service Operations Management
- Mathematical Problems in Engineering
- Medicine
- Naval Research Logistics
- Networks and Spatial Economics
- New Journal of Physics
- Omega: The International Journal of Management Science
- Operations Management Research
- Operations Research
- PLOS One
- PNAS Nexus
- Production and Operations Management
- Public Transport
- Review of Economics and Statistics
- Scientific Reports
- Service Science
- Simulation Modelling Practice and Theory
- Software: Practice and Experience
- Strategic Change
- Sustainable Cities and Society
- Technology Analysis and Strategic Management
- Technology in Society
- The Open Civil Engineering Journal
- Transactions on Consumer Electronics
- Transport Policy
- Transport Reviews
- Transportation
- Transportation Planning and Technology
- Transportation Research Board Annual Meeting

- Transportation Research Interdisciplinary Perspectives
 - Transportation Research Part A: Policy and Practice
 - Transportation Research Part B: Methodological
 - Transportation Research Part C: Emerging Technologies
 - Transportation Research Part D: Transport and Environment
 - Transportation Research Part E: Logistics and Transportation Review
 - Transportation Research Record
 - Transportation Science
 - Transportmetrica A: Transport Science
 - Transportmetrica B: Transport Dynamics
 - Urban, Planning and Transport Research
 - Winter Simulation Conference
6. Member of Academic and Professional Organizations
- INFORMS (Institute for Operations Research and the Management Sciences)
 - TRB (Transportation Research Board)
 - AEA (American Economic Association)
 - TSL (Transportation Science and Logistics Society)

OTHER SERVICE

- | | |
|--|-------------|
| 1. Co-Founder and Chair, MIT-China Innovation and Entrepreneurship Forum | 2011 – 2017 |
| 2. Vice President, Boston Tsinghua Alumni Association | 2012 – 2015 |
| 3. Co-President, MIT Chinese Students and Scholars Association | 2011 – 2012 |

CONFERENCE PRESENTATIONS

- | | |
|--|-----------|
| 1. MIT-Singapore AI Symposium, Singapore | Jan. 2024 |
| 2. The 14th POMS-HK International Conference, Hong Kong, China | Jan. 2024 |
| 3. INFORMS 2023 Annual Meeting, Phoenix, Arizona, USA | Oct. 2023 |
| 4. INFORMS Healthcare Conference 2023, Toronto, Ontario, Canada | Jul. 2023 |
| 5. Maker-X Workshop with Urban Redevelopment Authority, Singapore | Apr. 2023 |
| 6. The 13th POMS-HK International Conference, Hong Kong, China | Jan. 2023 |
| 7. The 3rd Workshop on Transportation Research, Beijing, China | Dec. 2022 |
| 8. INFORMS 2022 Annual Meeting, Indianapolis, Indiana, USA | Oct. 2022 |
| 9. INFORMS 2021 Annual Meeting, Anaheim, California, USA | Oct. 2021 |
| 10. IFORS 2021 Conference, Seoul, Korea | Aug. 2021 |
| 11. The 13th International Conference of the Chinese Scholars Association for Management Science and Engineering (CSAMSE), Shanghai, China | Jul. 2021 |
| 12. The 1st International Workshop on Operations Research and Artificial Intelligence, Wuhan, Hubei, China | Apr. 2021 |
| 13. INFORMS 2020 Annual Meeting, National Harbor, Maryland, USA | Nov. 2020 |
| 14. The 11th POMS-HK International Conference, Hong Kong, China | Jan. 2020 |
| 15. INFORMS 2019 Annual Meeting, Seattle, Washington, USA | Oct. 2019 |
| 16. The 12th International Conference of the Chinese Scholars Association for Management Science and Engineering (CSAMSE), Chengdu, Sichuan, China | Jul. 2019 |
| 17. The 10th Triennial Symposium on Transportation Analysis (TRISTAN X), Hamilton Island, Australia | Jun. 2019 |
| 18. Chan Wui & Yunyin Rising Star Workshop in Transportation, Bellagio, Italy | Jun. 2019 |
| 19. The 10th POMS-HK International Conference, Hong Kong, China | Jan. 2019 |

20. The 5th Young Scholar Workshop on Management Science, Xiamen, Fujian, China Jan. 2019
21. INFORMS 2018 Annual Meeting, Phoenix, Arizona, USA Nov. 2018
22. The 16th Annual Meeting of the Society of Management Science and Engineering of China, Kunming, Yunnan, China Oct. 2018
23. The 10th International Workshop on Computational Transportation Science (CTS), Beijing, China Jul. 2018
24. The 11th International Conference of the Chinese Scholars Association for Management Science and Engineering (CSAMSE), Ningbo, Zhejiang, China Jul. 2018
25. Tsinghua-JD-POMS International Workshop, Qingdao, Shandong, China Jun. 2018
26. The 6th INFORMS TSL Workshop, Hong Kong, China Jan. 2018
27. The 9th POMS-HK International Conference, Hong Kong, China Jan. 2018
28. INFORMS TSL First Triennial Conference, Chicago, Illinois, USA Jul. 2017
29. AEA 2017 Annual Meeting, Chicago, Illinois, USA Jan. 2017
30. TRB 2017 Annual Meeting, Washington, D.C., USA Jan. 2017
31. INFORMS 2016 Annual Meeting, Nashville, Tennessee, USA Nov. 2016
32. INFORMS 2015 Annual Meeting, Philadelphia, Pennsylvania, USA Nov. 2015
33. Future Urban Mobility Symposium 2015, Singapore-MIT Alliance for Research and Technology, Singapore Jul. 2015
34. INFORMS 2014 Annual Meeting, San Francisco, California, USA Oct. 2014
35. Future Urban Mobility Symposium 2014, Singapore-MIT Alliance for Research and Technology, Singapore Jan. 2014
36. INFORMS 2013 Annual Meeting, Minneapolis, Minnesota, USA Oct. 2013
37. The 8th Triennial Symposium on Transportation Analysis (TRISTAN VIII), San Pedro de Atacama, Chile Jun. 2013

INVITED SEMINARS

1. Singapore University of Technology and Design, Engineering Systems and Design Pillar May 2024
2. Zhejiang University, School of Management May 2024
3. Hong Kong University of Science and Technology, HKUST-DiDi Joint Research Laboratory May 2024
4. Sichuan University, School of Business May 2024
5. Zhejiang University, Institute of Intelligent Transportation Systems May 2024
6. Erasmus University, Rotterdam School of Management Apr. 2024
7. Delft University of Technology, Department of Transport and Planning Apr. 2024
8. Singapore-MIT Alliance for Research and Technology Centre (SMART), M3S Group on Artificial Intelligence Mar. 2024
9. Tsinghua Shenzhen International Graduate School, Institute of Data and Information Mar. 2024
10. University of Hong Kong, Institute of Transport Studies Dec. 2023
11. Sichuan University, School of Business Dec. 2023
12. Southwestern University of Finance and Economics, School of Business Administration Dec. 2023
13. Tongji University, College of Transportation Engineering Sep. 2023
14. Shenzhen University, School of Management Jul. 2023
15. Chinese University of Hong Kong (Shenzhen), School of Data Science Jun. 2023
16. Southern University of Science and Technology, Business School Jun. 2023
17. University of Electronic Science and Technology of China, School of Management and Economics Jun. 2023

18. South China University of Technology, School of Business Administration Jun. 2023
19. Nanjing University, School of Management and Engineering May 2023
20. Southeast University, School of Economics and Management May 2023
21. Beijing Jiaotong University, Institute of Transportation,
System Science and Engineering May 2023
22. Hong Kong University of Science and Technology (Guangzhou),
Intelligent Transportation Thrust Nov. 2022
23. University of Hong Kong, Faculty of Business and Economics Jul. 2022
24. City University of Hong Kong, School of Data Science Jun. 2022
25. University of Hong Kong, Institute of Transport Studies Jun. 2022
26. Nanjing University of Aeronautics and Astronautics, School of Civil Aviation Dec. 2021
27. Huazhong University of Science and Technology, School of Management Oct. 2021
28. Southwest Jiaotong University, School of Transportation and Logistics Jul. 2021
29. Indian Institute of Management, Ahmedabad,
Centre for Transportation and Logistics Apr. 2021
30. Tsinghua University, Department of Industrial Engineering Apr. 2021
31. Beijing Jiaotong University, State Key Lab of Rail Traffic Control and Safety Apr. 2021
32. Zhejiang University, Institute of Intelligent Transportation Systems Apr. 2021
33. Southwestern University of Finance and Economics,
School of Business Administration Mar. 2021
34. University of Minnesota, Department of Industrial and Systems Engineering Jan. 2021
35. University of Michigan, Department of Civil and Environmental Engineering Nov. 2020
36. New York University, Center for Connected Cities with Smart Transportation Mar. 2020
37. Carnegie Mellon University, Department of Civil and Environmental Engineering Jan. 2020
38. Hong Kong University of Science and Technology,
Department of Civil and Environmental Engineering Jan. 2020
39. Tsinghua University, School of Public Policy and Management Dec. 2019
40. University of California, Berkeley,
Department of Industrial Engineering and Operations Research Nov. 2019
41. Carnegie Mellon University, Tepper School of Business Nov. 2019
42. MIT, Department of Urban Studies and Planning Oct. 2019
43. Carnegie Mellon University, Department of Computer Science Sep. 2019
44. Carnegie Mellon University,
Heinz College of Information Systems and Public Policy Sep. 2019
45. Singapore Management University, Lee Kong Chian School of Business Aug. 2019
46. University of Science and Technology of China, School of Management Jul. 2019
47. Tongji University, School of Economics and Management Jul. 2019
48. Southeast University, School of Transportation Jul. 2019
49. Singapore-MIT Alliance for Research and Technology Centre (SMART),
Future Urban Mobility Group Jul. 2019
50. Southwestern University of Finance and Economics,
School of Business Administration Jul. 2019
51. Hong Kong University of Science and Technology,
HKUST-DiDi Joint Research Laboratory May 2019
52. Sichuan University, School of Business May 2019
53. Zhejiang University, Institute of Intelligent Transportation Systems Apr. 2019
54. Chinese University of Hong Kong (Shenzhen),
School of Management and Economics Apr. 2019
55. Tsinghua University, School of Economics and Management Dec. 2018

56. Beijing Jiaotong University, State Key Lab of Rail Traffic Control and Safety	Dec. 2018
57. Chongqing University, School of Economics and Business Administration	Dec. 2018
58. Nanjing University of Aeronautics and Astronautics, School of Civil Aviation	Dec. 2018
59. Southwest Jiaotong University, School of Transportation and Logistics	Dec. 2018
60. Tsinghua University, Department of Civil Engineering	Dec. 2018
61. Shanghai Jiao Tong University, Antai School of Economics and Management	Jul. 2018
62. Chinese University of Hong Kong, CUHK Business School	Mar. 2018
63. City University of Hong Kong, Department of Systems Engineering and Engineering Management	Jan. 2018
64. Shanghai Jiao Tong University, Department of Transportation Engineering	Dec. 2017
65. University of Electronic Science and Technology of China, School of Management and Economics	Nov. 2017
66. University of Illinois at Urbana-Champaign, Department of Civil and Environmental Engineering	Jul. 2017
67. Southwestern University of Finance and Economics, School of Business Administration	Jul. 2017
68. Shanghai University of Finance and Economics, School of Urban and Regional Science	Jun. 2017
69. Nanyang Technological University, Nanyang Business School	May 2017
70. Shanghai Jiao Tong University, Department of Transportation Engineering	May 2017
71. Zhejiang University, School of Public Affairs	Apr. 2016
72. Zhejiang University, College of Civil Engineering and Architecture	Mar. 2016
73. Shanghai Jiao Tong University, Department of Transportation Engineering	Aug. 2015
74. Singapore University of Technology and Design, Engineering Systems and Design Pillar	Mar. 2015
75. Shanghai Jiao Tong University, Antai School of Economics and Management	Mar. 2015
76. Tsinghua University, Department of Industrial Engineering	Mar. 2015
77. Singapore Management University, School of Information Systems	Feb. 2015
78. National University of Singapore, NUS Business School	Feb. 2015

INDUSTRY AND ORGANIZATION TALKS

1. Changi Airport Group, Singapore	May 2024
2. Ministry of National Development, Singapore	Apr. 2024
3. Ryde, Singapore	Jun. 2023
4. Grab, Singapore	Mar. 2023
5. Meituan, Beijing, China	Mar. 2023
6. West China Hospital, Chengdu, Sichuan, China	Feb. 2023
7. Digital Blue Foam, Singapore	Dec. 2022
8. China-Singapore Education Hub, Singapore	Dec. 2022
9. Meituan, Beijing, China	Sep. 2022
10. Meituan, Beijing, China	May 2022
11. Upwork, Santa Clara, California, USA	Feb. 2022
12. OR-AI, Shenzhen, Guangdong, China	Nov. 2021
13. MilkRun, Singapore	Sep. 2021
14. LalaMove (Huolala), Shenzhen, Guangdong, China	Jan. 2020
15. Uber, San Francisco, California, USA	Nov. 2019
16. Lyft, San Francisco, California, USA	Nov. 2019
17. Upwork, Santa Clara, California, USA	Nov. 2019

18. Didi Chuxing, Mountain View, California, USA	Nov. 2019
19. Douban, Beijing, China	Apr. 2019
20. Didi Chuxing, Team of Supply Incentives, Beijing, China	Jun. 2018
21. Baidu, Beijing, China	Jun. 2018
22. Didi Chuxing, Team of Pricing, Beijing, China	Jun. 2018
23. Jingdong (JD.com), Beijing, China	Jun. 2018
24. Didi Chuxing, Operations Innovation Center, Beijing, China	May 2018
25. Didi Chuxing, DiDi Research Lab, Beijing, China	May 2017

PERSONAL

1. Programmer using MATLAB, Java, Python, Gurobi/CPLEX
2. Champion, Tsinghua Ma Yuehan Cup Soccer League
3. Top Goal Scorer, MIT Intramural Soccer League
4. Half-Marathon Runner