

ZHAOWEI SHE

Vita (August 2026)

🏠 zhaoweishe.wordpress.com ✉ zwshe@smu.edu.sg 🐦 @zpipposhe

ACADEMIC POSITIONS

Singapore Management University (SMU)
Lee Kong Chian School of Business (LKCSB)
Assistant Professor of Operations Management

Singapore
Jan 2022 - Present

EDUCATION

Georgia Institute of Technology (GaTech)
Ph.D. in Operations Research
Thesis: Healthcare Data Analytics for Social Good

Atlanta, GA, USA
Dec 2021

University of Illinois at Urbana-Champaign (UIUC)
M.S. in Applied Mathematics
Thesis: Essays On The Relationship Between Public Transit Usage & Obesity

Champaign, IL, USA
Aug 2015

Pennsylvania State University (PSU)
M.A. in Economics
University Graduate Fellowship

State College, PA, USA
Aug 2013

University of Illinois at Urbana-Champaign (UIUC)
B.A. in Economics & Mathematics
High Distinction in Economics
Distinction in Mathematics

Champaign, IL, USA
Aug 2011

RESEARCH INTERESTS

Healthcare Data Analytics: Causal Inference, Machine Learning, Game-theoretical and Econometric Modeling in Health Care Service Research

RESEARCH PAPERS

A. Operation Management Papers

- [1] **Can Big Data Cure Risk Selection in Healthcare Capitation Programs? A Game Theoretical Analysis** (Z. She, T. Ayer, D. Montanera)
 - Published in **Manufacturing & Service Operations Management** 24(6):3117-3134, 2022.
 - Selected as a finalist of 2019 INFORMS MSOM Best Student Paper Competition
 - Selected as a finalist of 2018 INFORMS Public Sector Operations Research Best Paper Award
- [2] **Strategic Cross Subsidization in Healthcare Capitation Programs: Evidence from Medicare Advantage** (Z. She, T. Ayer, B. Gokpinar, D. Hughes)
 - Published in **Manufacturing & Service Operations Management** 26(6):2085-2101, 2024.
 - Selected as a finalist of 2023 INFORMS Pierskalla Best Paper Award
 - Selected for presentation at 2024 MSOM Healthcare SIG Conference

- [3] **Small Area Estimation of Case Growths for Timely COVID-19 Outbreak Detection** (Z. She, Z. Wang, J. Chhatwal, T. Ayer)
 - Published online at **Operations Research**
 - Selected as a finalist of 2025 **POMS College of Healthcare Operations Management Best Paper Competition**
 - Launched on a **website** hosted by the Massachusetts General Hospital to provide weekly updates on COVID-19 outbreaks in U.S. counties
 - Presented at **Machine Learning for Health (ML4H) Workshop of NeurIPS 2020**
- [4] **All You Can Treat: Improving Hepatitis C Treatment Access with Refundable Subscription Contracts** (Z. She, H. Zhong, Y. Zhuo, T. Ayer, J. Chhatwal)
 - Draft available upon request
- [5] **When Prediction Undermines Calibration: How Excessive Risk Adjustment Drives Up Health Insurance Premiums** (Y. Chen, Z. She, K. Wang)
 - Draft available upon request
- [6] **Expertise at the Margin: A Reverse Turing Test for Automation Bias in Algorithm-assisted Medical Decision Making** (T. Thoi, Z. She, H. Zhong, Z. Zheng, S. Lu)
 - In preparation

B. Medical and Policy Papers

- [7] **Analyzing the Impact of Public Transit Usage on Obesity** (Z. She, D.M. King, S.H. Jacobson), *Preventive Medicine* 99 (2017): 264-268.
- [8] **Is Promoting Public Transit an Effective Intervention for Obesity? A Longitudinal Study of the Relation between Public Transit Usage and Obesity** (Z. She, D.M. King, S.H. Jacobson), *Transportation Research Part A: Policy and Practice* 119 (2019): 162-169.
- [9] **Primary Care Comprehensiveness and Care Coordination in Robust Specialist Networks Results in Lower Emergency Department Utilization: A Network Analysis of Medicaid Physician Networks** (Z. She, A. Gaglioti, P. Baltrus, C. Li, M. Moore, L. Immergluck, A. Rao, T. Ayer), *Journal of Primary Care & Community Health* 11 (2020).
- [10] **Interpersonal Primary Care Continuity for Chronic Conditions is Associated with Fewer Hospitalizations and Emergency Department Visits Among Medicaid Enrollees** (A. Gaglioti, C. Li, P. Baltrus, Z. She, M. Douglas, M. Moore, A. Rao, L. Immergluck, T. Ayer, A. Bazemore, G. Rust, D. Mack), *Journal of the American Board of Family Medicine* 36.2 (2023): 303-312.

HONORS AND AWARDS

- 2025 M&SOM Meritorious Service Award, 2026
- Finalist, 2025 POMS College of Healthcare Operations Management Best Paper Competition
- Finalist, 2023 INFORMS Pierskalla Best Paper Award, 2023
- Thos and Clair Muller Fellowship at Health Analytics and Health Systems, GaTech, 2021
- H. Milton Stewart Ph.D. Student Teaching Fellow, GaTech, 2020
- George Family Leadership Fellow, GaTech, 2020
- Finalist, 2019 INFORMS MSOM Best Student Paper Competition, 2019
- Finalist, 2018 INFORMS Public Sector Operations Research Best Paper Award, 2018
- George Family Fellowship, GaTech, 2015, 2016, 2020

- University Graduate Fellowship, PSU, 2011
- High Distinction in Economics & Distinction in Mathematics, UIUC, 2011

INVITED PRESENTATIONS

2027: University of Virginia Darden School of Business (scheduled)

2026: POMS-HK International Conference, Hong Kong University of Science and Technology School of Business and Management, POMS Annual Conference, Reno, NV, MSOM Conference, Boston, MA, INFORMS Healthcare Conference, Raleigh, NC, INFORMS Annual Conference, San Francisco, CA (scheduled)

2025: POMS-HK International Conference, POMS Annual Conference, Atlanta, GA, South China University of Technology Business School, INFORMS International Conference, Singapore, INFORMS Annual Conference, Atlanta, GA (scheduled), University of Alabama Culverhouse College of Business

2024: POMS-HK International Conference, Workshop on Empirical Operations Management, Chinese University of Hong Kong, POMS Annual Conference, Minneapolis, MN, MSOM Conference, Minneapolis, MN, INFORMS Annual Meeting, Seattle, WA, McMaster University DeGroote School of Business

2023: POMS-HK International Conference, POMS Annual Conference, Orlando, FL, INFORMS Healthcare Conference, Toronto, Canada, INFORMS Annual Meeting, Phoenix, AZ, Hong Kong University Business School, Hong Kong Polytechnic University Faculty of Business

2022: Duke-NUS Medical School, MSOM Conference, Munich, Germany, INFORMS Annual Meeting, Indianapolis, IN

2021: Boston University Questrom School of Business, Northeastern University D'Amore-McKim School of Business, University of Alabama at Birmingham School of Health Professions, Singapore Management University Lee Kong Chian School of Business, University of Alberta School of Business, POMS Annual Conference, Virtual, INFORMS Healthcare Conference, Virtual, 1st ACM Conference on Equity and Access in Algorithms, Mechanisms and Optimization (EAAMO '21), Virtual, INFORMS Annual Meeting, Virtual

2020: Machine Learning for Health Workshop (ML4H) at NeurIPS 2020, Virtual, INFORMS Annual Meeting, Virtual, University College London School of Management

2019: POMS Annual Conference, Washington, D.C., INFORMS Healthcare Conference, Cambridge, MA, INFORMS Annual Meeting, Seattle, WA

2018: MSOM Conference, Dallas, TX, 2nd Workshop on Mechanism Design for Social Good (MD4SG '18), Ithaca, NY, INFORMS Annual Meeting, Phoenix, AZ

RESEARCH GRANTS

- **PI, The Reverse Turing Test for Clinical AI: Detecting Automation Bias in Extubation Decisions in Critical Care**, Academic Research Fund (AcRF) Tier 1, Ministry of Education, Singapore, July 2026-December 2027, SGD 43,000
- **PI, Transfer Learning for Healthcare Risk Adjustment with Missing Data**, Academic Research Fund (AcRF) Tier 1, Ministry of Education, Singapore, December 2024-November 2026, SGD 98,920
- **PI, Transfer Learning for Epidemic Management**, Academic Research Fund (AcRF) Tier 1, Ministry of Education, Singapore, November 2023-October 2024, SGD 37,748

APPLIED RESEARCH AND INDUSTRY EXPERIENCE

Lead Developer

COVID-19 Outbreak Detection Tool

GaTech

June 2020 - March 2023

- Developed Machine Learning Algorithms to Detect Recent COVID-19 Outbreaks in U.S. Counties and to Predict How Fast These Outbreaks Could Spread

- Developed Mathematical Models to Minimize Total Cost of Care in Crohn's Disease Management

PROFESSIONAL ACTIVITIES

- Referee/Reviewer: *Management Science, Operations Research, Manufacturing & Service Operations Management, Production and Operations Management, Health Care Management Science, Naval Research Logistics, Decision Sciences, Service Science, Journal of Transport & Health*
- Ad Hoc Referee/Reviewer: *RAND Journal of Economics, American Economic Journal: Microeconomics*
- Conference Reviewer: *MSOM Sustainable Operations SIG (2022), MSOM Healthcare SIG (2023, 2024, 2025, 2026)*
- Judge: *MSOM Best Student Paper Competition (2022, 2023, 2024, 2025, 2026), INFORMS Public Sector Operations Research Best Paper Award (2023), INFORMS Pierskalla Best Paper Award (2024), POMS-HK Best Student Paper Competition (2025), POMS College of Healthcare Operations Management Best Paper Competition (2026), INFORMS TIMES Best Working Paper Competition (2026), INFORMS Behavioral Operations Management Section Best Working Paper Competition (2026)*
- Session Chair:
 - Innovations and Complications: Deploying Predictive Analytics in Healthcare (INFORMS Healthcare 2026)
 - Advancement in Healthcare Analytics (POMS 2026)
 - Health Applications Society (HAS) Junior Faculty Lightning Session (INFORMS 2025)
 - Risk Adjustment, Policy, and Data-Driven Innovation in Healthcare (INFORMS International 2025)
 - Frontiers in Probabilistic Modeling for the Service Economy (INFORMS International 2025)
 - Empirical Healthcare Operations (INFORMS 2024)
 - Innovations in Healthcare Delivery (POMS 2024)
 - Healthcare Analytics for Social Good (INFORMS 2023)
 - Financial Incentives in Healthcare Delivery (INFORMS 2018)
 - Healthcare Payment and Risk Adjustment Models (INFORMS Healthcare 2019)
 - Pricing Models in Pharmaceutical and Healthcare Markets (INFORMS 2019)
- Program Committee: MD4SG '19, MD4SG '20, ACM EAAMO '21, ACM EAAMO '22, ACM EAAMO '23, ACM EAAMO '24, ACM EAAMO '25, ACM EAAMO '26
- Working Group Organizer: MD4SG Healthcare Working Group

TEACHING EXPERIENCE

Instructor
MGMT 108 Intro to Business Analytics

Spring 2026
SMU

Instructor
OPIM 311 Service Processes

Spring 2022-2026
SMU

Teaching Assistant
ISyE 6663 Nonlinear Optimization

Spring 2018
GaTech

Teaching Assistant
ISyE 3232 Stochastic Manufacturing and Service Systems

Fall 2015, Spring 2016, Spring 2017
GaTech

Teaching Assistant
ECON 106 Statistical Foundations for Econometrics

Fall 2012, Spring 2013
PSU

RELEVANT SKILLS

Computer Skills
Databases & Data Visualization
Languages

Python, R, Mathematica, Matlab, Gurobi, Latex
SQL, SAS, Microsoft Access, Tableau
Fluent in English, Chinese Mandarin, Cantonese