Guang CHENG

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Last Updated in February 2025

EDUCATION

National University of Singapore, Singapore

2020 - Present

Ph.D. Candidate in Operations Research and Analytics

Advisors: Joel Goh, Sıdıka Tunç Candoğan

University of Science and Technology of China, China

2016 - 2019

M.S. in Management Science and Engineering

Jiangnan University, China

2012 - 2016

B.S. in Industrial Engineering

RESEARCH INTERESTS

Topics: Medical Decision-Making; Healthcare Operations; Healthcare Delivery

Methodologies: Econometric Analysis; Field experiment; Data Analytics

Published Work

- 1. Guang Cheng, Jingui Xie, Zhichao Zheng, Haidong Luo, Oon-Cheong Ooi. Extubation Decisions with Predictive Information for Mechanically Ventilated Patients in the ICU. *Management Science*.
- Stephanie Ko, Guang Cheng, Tze Yeong Teng, Joel Goh. Home-First or Hospital-First? A
 Propensity Score-Weighted Retrospective Cohort Study. Journal of the American Medical
 Directors Association, 2024, 25(9):105154.
- 3. Guang Cheng, Sarah Yini Gao, Yancheng Yuan, Chenxiao Zhang, Zhichao Zheng. On the Test Accuracy and Effective Control of the COVID-19 Pandemic: A Case Study in Singapore. *IN-FORMS Journal on Applied Analytics*, 2022, 52(6):524-538.
- 4. Jingui Xie, Guang Cheng, Zhichao Zheng, Haidong Luo, Oon-Cheong Ooi. To Extubate or Not to Extubate: Risk Factors for Extubation Failure and Deterioration with Further Mechanical Ventilation. *Journal of Cardiac Surgery*, 2019, 34(10): 1004–1011.

Working Papers

- 5. Guang Cheng, Sıdıka Tunç Candoğan, Joel Goh, Bilal Gokpinar. The Role of Contextual Information in Customer Reviews: A Field Experiment on a Mental Health Platform. Major Revision at *Management Science*.
- 6. Guang Cheng, Joshua M. Hagood, Ryan L. Melvin, Adam F. Kohutnicki, Mitchell H. Tsai, Joel Goh. The Impact of Introducing Release Times for Operating Rooms on Surgery Waiting Times.

CONFERENCE PRESENTATIONS

The Role of Contextual Information in Customer Reviews: A Field Experiment on a Mental Health Platform

• POMS Annual Conference, Atlanta, Georgia, USA (scheduled)	May 2025	
• Workshop on Empirical Operations Management, Hong Kong, China	Jan 2025	
\bullet The 15th POMS-HK International Conference, Hong Kong, China	Jan 2025	
• INFORMS Annual Meeting, Seattle, Washington, USA	Oct 2024	
\bullet The 16th International Annual Conference of CSAMSE, Xiamen, China	Jul 2024	
The Impact of Introducing Release Policy for Operating Rooms on Surgery Waiting Times		
• INFORMS Annual Meeting, Phoenix, Arizona, USA	Oct 2023	
• POMS Annual Conference, Orlando, Florida, USA	May 2023	
\bullet The 13th POMS-HK International Conference, Hong Kong, China	Jan 2023	
• INFORMS Annual Meeting, Indianapolis, Indiana, USA	Oct 2022	
• POMS Annual Conference, Orlando, Florida, USA (Online)	Apr 2022	
Extubation Decisions with Predictive Information for Mechanically Ventilated Patients in ICU		
• POMS Annual Conference, Orlando, Florida, USA (Online)	Apr 2022	
• The 13th International Annual Conference of CSAMSE, Shanghai, China (Online)	Jul 2021	

Jan 2019

PROFESSIONAL EXPERIENCE

• Visiting Scholar, Virginia Tech, Blacksburg, Virginia, USA, Aug 2023 – Dec 2023

• The 10th POMS-HK International Conference, Hong Kong, China

• Research Assistant, Singapore Management University, Singapore, Jul 2019 – Jun 2020

Professional Activities and Services

Conference Session Chair

• INFORMS Annual Meeting	Oct 2025
• POMS-HK International Conference	Jan 2025
• POMS Annual Conference	May 2023
• Analytics for X Conference	Sept 2022
POMS Annual Conference	Apr 2022

Organizing Committee

• Analytics for X Conference Sept 2021

Professional Memberships

- Institute for Operations Research and Management Sciences (INFORMS)
- INFORMS Health Applications Society (HAS)

TEACHING EXPERIENCE

Instructor

• DAO1704 Decision Analytics using Spreadsheets (BBA) Spring 2023

Guest Lecturer

• PHM5014 Causal Inference in Precision Medicine (MScPHM) Fall 2024

Teaching Assistant

• DBA4811 Analytics for Consulting (BBA)	Spring 2025
• DBA5103 Operations Research and Analytics (MSBA)	Fall 2022
• IE4214 Revenue Management and Pricing Analytics (BEng)	Spring 2022

HONORS AND AWARDS

• NUS Research Scholarship, National University of Singapore, Singapore	2020 – 2024
• JData Data Mining Competition Top 10, JD.com, inc., China	2017
• National Scholarship, Ministry of Education of People's Republic of China, China	2015

SKILLS

Programming & Packages: Python, R, MATLAB, SQL, Gurobi

Languages: English (Fluent), Mandarin (Native)