GUANG CHENG

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EDUCATION

National University of Singapore, Singapore

2020 - Present

Ph.D. Candidate in Operations Research and Analytics

Thesis Advisor: Joel Goh

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

Data-driven medical decision making; Empirical operations; Healthcare design and delivery

52(6):524-538.

WORKING PAPER

1. Guang Cheng, Jingui Xie, Zhichao Zheng, Haidong Luo, Oon-Cheong Ooi. Extubation decision making with predictive information for mechanically ventilated patients in ICU. Major revision at *Management Science*.

Published Papers

- 1. 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. *INFORMS Journal on Applied Analytics*, 2022, 52(6):524-538.
- 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.

Conference Presentations

- Extubation decision making with predictive information for mechanically ventilated patients in ICU
 - POMS Annual Conference, virtual

Apr 2022

- The 13th International Conference of CSAMSE, virtual

Jul 2021

- POMS-HK International Conference, Hong Kong, China

Jan 2019

- The Impact of Introducing Release Policy for Operating Rooms on Surgery Waiting Times
 - POMS-HK International Conference, Hong Kong, China (scheduled)

Jan 2023

- INFORMS Annual Meeting, Indianapolis, Indiana, U.S.A

Oct 2022

- POMS Annual Conference, virtual
- IARS Annual Meeting, poster presentation, virtual

Apr 2022

Mar 2022

PROFESSIONAL EXPERIENCE

- Research Assistant: Singapore Management University, Jul 2019 Jun 2020
- Research Assistant: Singapore Management University, Aug 2018 Nov 2018
- Research Assistant: Singapore Management University, Sept 2017 Mar 2018

Professional Activities and Services

Conference Session Chair

• POMS Annual Conference	May 2023
• INFORMS Annual Meeting	Sept 2022
• 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)
- Production and Operations Management Society (POMS)

TEACHING EXPERIENCE

Teaching Assistant

• IE4214 Revenue Management and Pricing Analytics (Undergraduate) Spring 2022

• DBA5103 Operations Research and Analytics (Masters)

Fall 2022

Honors and Awards

• NUS Research Scholarship, National University of Singapore, Singapore, 2020-2024

SKILLS

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