

GUANG CHENG

National University of Singapore, Institute of Operations Research and Analytics
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EDUCATION

National University of Singapore, Singapore 2020 – Present
Ph.D. Student in Operations Research and Analytics
Advisor: Joel Goh

University of Science and Technology of China, China 2016 – 2021
Master in Management Science and Engineering
Advisors: Jingui Xie, Zhichao Zheng (external)

Jiangnan University, China 2012 – 2016
Bachelor in Industrial Engineering

RESEARCH INTERESTS

- Medical Decision Making
- Healthcare Operations Management
- Scheduling Systems

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*, forthcoming.
2. 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
 - 2021, *The 13th International Conference of CSAMSE*, Shanghai, China, virtual
 - 2019, *POMS-HK International Conference*, Hong Kong, China
 - 2022, *32nd POMS Annual Conference*, virtual (scheduled)
- The Impact of Introducing Release Policy for Operating Rooms on Surgery Waiting Times
 - 2022, *IARS Annual Meeting*, poster presentation, virtual

- 2022, *32nd POMS Annual Conference*, virtual (scheduled)
- 2022, *INFORMS Annual Meeting* (scheduled)

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, Sep. 2017 – Mar. 2018

PROFESSIONAL SERVICE

- *Organizing Committee Member*: Analytics for X Conference 2021

TEACHING EXPERIENCE

Teaching Assistant

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

HONORS AND AWARDS

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

SKILLS

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