

GUANG CHENG

National University of Singapore, Institute of Operations Research and Analytics
#04-01, Innovation 4.0, 3 Research Link, Singapore 117602
gcheng@u.nus.edu ◇ <https://gcheng-nus.github.io>

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

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
- JData Data Mining Competition Top 10, JD.com, inc., China, 2017
- National Scholarship, Ministry of Education of People's Republic of China, China, 2015
- Municipal Merit Student, Education Bureau of Wuxi, China, 2015

SKILLS

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