# 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  $\diamond$  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
  - 2022, 32nd POMS Annual Conference, (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, (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