

# Chen Yang

Email: cyangap@connect.ust.hk

Phone: (+852) 6580-7538, (+86) 176-8716-1024

Personal Page: <https://chenyang223.github.io/>

## EDUCATION

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### Ph.D. in Industrial Engineering and Decision Analytics

2020 - 2025 (expected)

Hong Kong University of Science and Technology, Hong Kong

Advisor: Jin Qi

Hong Kong PhD Fellowship

### M.Phil in Physics

2018 - 2019

Hong Kong University of Science and Technology, Hong Kong

Advisor: Kwok Yip Szeto

### B.S. in Physics

2014 - 2018

University of Chinese Academy of Sciences, Beijing, China

Exchanged at Technical University of Munich, Germany, in 2017 fall

## RESEARCH INTERESTS

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Data-driven decision-making, distributionally robust optimization, healthcare operations management,

## PUBLICATIONS

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### Journal Publications

- **Elective Surgery Sequencing and Scheduling under Uncertainty** 2024  
Xiaojin Fu, Jin Qi, **Chen Yang\***, Han Ye  
*Manufacturing & Service Operations Management* 26(3):893-910  
**2023 POMS-HK Best Student Paper Award Finalist**

### Conference Proceedings

- **Fragility Index: A New Approach for Binary Classification** 2023  
**Chen Yang**, Ziqiang Zhang, Bo Cao, Zheng Cui, Bin Hu, Tong Li, Daniel Zhuoyu Long, Jin Qi, Feng Wang, Ruohan Zhan  
*Proceedings of the 29th ACM SIGKDD Conference on Knowledge Discovery and Data Mining*, 2918-2929
- **Solving the Traveling Salesman Problem with a Multiagent System** 2019  
**Chen Yang**, Kwok Yip Szeto  
*2019 IEEE Congress on Evolutionary Computation (CEC)*, 158 - 165

### Working Papers

- **Fragility-aware Classification for Understanding Risk and Improving Generalization**  
With Jin Qi, Ruohan Zhan
- **Optimal Selling Channel in Online Platforms: The Roles of Network Structure**  
With Lijian Lu, Jin Qi
- **Hotspot Resolution in Cloud Computing**  
With Xinming Han, Jin Qi, Jie Song

(\* stands for corresponding author)

## TEACHING EXPERIENCE

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### Hong Kong University of Science and Technology

Teaching Assistant

- Prescriptive Analytics 2021, 2022, 2023 Fall  
Average student evaluation: 3.82/5.00 (Department average: 3.69/5.00)
- Transportation Systems 2021, 2022 Spring  
Average student evaluation: 4.00/5.00 (Department average: 3.92/5.00)

## PROJECTS

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- Large-scale dynamic pricing in online retailing With Alibaba Group 2022 - 2023
- Operations management in surgery planning and resource allocation, with Hong Kong United Christian Hospital 2024
- Operations management in rheumatology department, with Hong Kong Tseung Kwan O Hospital 2024

## SELECTED AWARDS

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- 2023 POMS-HK Best Student Paper Award Finalist 2023
- Hong Kong PhD Fellowship 2020 - 2023
- HKUST Redbird Award 2020
- Postgraduate Studentship, HKUST 2018
- Outstanding Student Scholarship (Top 10%), UCAS 2015 - 2017
- Third prize in 30th Chinese Physics Olympiad 2013

## SELECTED PRESENTATIONS

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### Elective Surgery Sequencing and Scheduling under Uncertainty

- POMS-HK Conference, Hong Kong, 01/2023
- INFORMS Healthcare Conference, Toronto, Canada, 07/2023
- INFORMS Annual Meeting, Phoenix, USA, 10/2023

### Fragility Index: A New Approach for Binary Classification

- ACM SIGKDD Conference, Los Angeles, USA, 08/2023

### Optimal Selling Channel in Online Platforms: The Roles of Network Structure

- POMS-HK Conference, Hong Kong, 01/2024

### Fragility-aware Classification for Understanding Risk and Improving Generalization

- (Upcoming) INFORMS Annual Meeting, Seattle, USA, 10/2024

## PROFESSIONAL ACTIVITIES

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Reviewer for *Naval Research Logistics, Production and Operations Management Society*.  
Session chair at POMS-HK 2024.