

# Yue ZHAO

105 St George St  
Toronto, ON M5S 3E6

Email: zhaoyue6174@gmail.com  
Alt: yuezhao@u.nus.edu

## EDUCATION

---

### National University of Singapore

Ph.D. in Operations Research

Aug 2017 – Jan 2022

*Dissertation: "On Adversarial Machine Learning and Robust Optimization"*

*Advisor: Xiaobo Li and Andrew Lim*

### Nanjing University

B.S. in Statistics

Sep 2013 – Jul 2017

*Visiting student at UC Berkeley, Spring 2016*

## EMPLOYMENT

---

### University of Toronto

Postdoctoral fellow at Rotman School of Management

Sep 2024 – Current

*Advisor: Sheng Liu*

### National University of Singapore

Research fellow at Institute of Operations Research and Analytics

Jan 2022 – Aug 2024

*Advisor: Long He and Melvyn Sim*

## RESEARCH

---

### Research Interest

- Data-driven optimization and robust analytics
- Analytics for social good
- Supply chain and logistics

### Publications & Preprints

\* corresponding author

1. Cheng Chun, Melvyn Sim, **Yue Zhao**\*. Robust Workforce Management with Crowdsourced Delivery. Forthcoming in *Operations Research*.
2. **Yue Zhao**, Zhixing Luo, Stanley Frederick W. T. Lim, Caihua Chen, Melvyn Sim. Service Oriented Considerate Routing: Data, Predictions and Robust Decisions. Major revision in *Management Science*.
3. Long He, Xiaobo Li, **Yue Zhao**\*. Proactive Policing: A Resource Allocation Model for Crime Prevention with Deterrence Effect. Major revision in *Operations Research*.
4. Jianpeng Ding, Liuxin Chen, Lianmin Zhang, **Yue Zhao**\*. Robust Satisficing Newsvendor Problem. Major revision in *Operations Research Letters*.
5. **Yue Zhao**, Zhi Chen, Zhenzhen Zhang. Distributionally Robust Chance Constrained  $p$ -Hub Center Problem. *Inf. J. on Computing* **35(6) (2023): 1361-1382**.
6. **Yue Zhao**, Zhi Chen, Zhenzhen Zhang, Andrew Lim. Vessel Deployment with Limited Information: Distributionally Robust Chance Constrained Models. *Transportation Research Part B: Methodological* **161 (2022): 197-217**.
7. Xinke Li, Zhirui Chen, **Yue Zhao**\*, Zekun Tong, Yabang Zhao, Andrew Lim, Joey Tianyi Zhou. PointBA: Towards Backdoor Attacks in 3D Point Cloud. *ICCV 2021* (AI conference).
8. **Yue Zhao**, Yuwei Wu, Caihua Chen, Andrew Lim. On Isometry Robustness of Deep 3D Models under Adversarial Attacks. *CVPR 2020* (AI conference).

## Selected Work in Progress

1. Supply Chain Resilience Management with Moment-dispersion Ambiguity. With Chun Cheng, Melvyn Sim, and Taozeng Zhu.
2. Network Design of Net-Zero Data Centers for Sustainable and Efficient Operations. With Sheng Liu, Ho-Yin Mak, and Shixuan Zhang.
3. Joint Routing and Resource Allocation for Nonprofit Operations under Uncertainty. With Sheng Liu and Mengling Zhang.

## TEACHING

---

### Teaching Assistant

- IE2150E Human Factors Engineering, NUS, spring 2018 & spring 2019.
- IE4240 Project Management, NUS, fall 2018 & spring 2020.
- MT5008 Corporate Entrepreneurship, NUS, fall 2019.
- MT5012 Marketing of High-technology Products and Innovations, NUS, fall 2020.

## PRESENTATIONS

---

- “Service Oriented Considerate Routing: Data, Prediction, and Robust Decisions”
  - *2024 INFORMS Annual Meeting, Seattle, WA, USA, Oct 2024.*
- “Proactive Policing: A Resource Allocation Model for Crime Prevention with Deterrence Effect”
  - *Erasmus School of Economics, Erasmus University Rotterdam, Rotterdam, Netherlands, Jan 2024.*
  - *The 14th POMS-HK International Conference, The Hong Kong University of Science and Technology, Hong Kong, Jan 2024.*
  - *Institute of Supply Chain Analytics, Dongbei University of Finance and Economics, Dalian, China, May 2023.*
  - *School of Management and Engineering, Nanjing University, Nanjing, China, May 2023.*
- “Robust Workforce Management with Crowdsourced Delivery”
  - *The Hong Kong University of Science and Technology (Guangzhou), online, Nov 2023.*
  - *2023 INFORMS Annual Meeting, Phoenix, AZ, USA, Oct 2023.*
  - *School of Management and Engineering, Nanjing University, Nanjing, China, May 2023.*
- “Resource Allocation for crime Deterrence in Urban Policing”, *2022 INFORMS Annual Meeting, Indianapolis, IN, USA, Oct 2022.*
- “On Adversarial Machine Learning and Robust Optimization”, *School of Computer Science, Central South University, online, Sep 2022.*
- “On Isometry Robustness of Deep 3D Models under Adversarial Attacks”, *2020 IEEE/CVF Conference on Computer Vision and Pattern Recognition, online, Jun 2020.*

## HONORS AND AWARDS

---

- NUS research scholarship, National University of Singapore, 2017 – 2021.
- Outstanding Graduates, Nanjing University, 2017.
- National Training Program of Innovation for Undergraduates with excellent completion, 2017.
- Excellent Student Cadre, Nanjing University, 2016.
- People’s Scholarship, Nanjing University, 2014, 2015.
- The second prize of China Undergraduate Mathematical Contest in Modeling, China Society for Industrial and Applied Mathematics, 2014.

## SERVICE

---

### Reviewer Service

- Ad-hoc Reviewer  
Informs Journal on Computing, Transportation Research Part B: Methodological, Neural Computing and Applications, Journal of Parallel and Distributed Computing, IEEE Journal on Selected Areas in Communications

### Student Service

- Council member, the student union of Nanjing University, 2015 – 2016
- Assistant president, the student union of Nanjing University, 2014 – 2015
- President, the student union of Department of mathematics, Nanjing University, 2014 – 2015

### Voluntary Service

- Student volunteer, The 2014 Nanjing Youth Olympic Games, 2014
- Member, the Committee of the Red Cross in Nanjing University, 2013 – 2014

## REFERENCES

---

Prof. Melvyn Sim  
Professor and Provost's Chair  
Dept. of Analytics & Operations  
NUS Business School  
BIZ 1 Mochtar Riady Building, 15 Kent Ridge Drive  
Singapore 119245  
Phone: +65 6516 6274  
melvynsim@nus.edu.sg

Prof. Long He  
Associate Professor  
School of Business  
George Washington University  
Funger Hall, 2201 G Street NW  
Washington, D.C. 20052  
longhe@gwu.edu

Prof. Xiaobo Li  
Assistant Professor  
Dept. of Industrial Systems Eng. & Mgmt.  
National University of Singapore  
1 Engineering Drive 2  
Singapore 117576  
Phone: +65 66017486  
iselix@nus.edu.sg