# Yue ZHAO

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## EDUCATION

**National University of Singapore**
Ph.D. in Operations Research                                                Aug 2017 – Jan 2022
*Dissertation: "On Adversarial Machine Learning and Robust Optimization"*

**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

**National University of Singapore**
Research fellow at Institute of Operations Research and Analytics           Jan 2022 – Aug 2024

## 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. ***Informs Journal 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"
  - *INFORMS annual meeting 2024, Seattle, Washington, 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.
  - *INFORMS annual meeting 2023, Phoenix, Arizona, USA*, Oct 2023.
  - *School of Management and Engineering, Nanjing University, Nanjing, China*, May 2023.
- "Resource Allocation for crime Deterrence in Urban Policing", *INFORMS annual meeting 2022, Indianapolis, Indiana, 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
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NUS Business School
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Singapore 119245
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