

# Yue ZHAO

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## EDUCATION

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### National University of Singapore

Ph.D. in Industrial Systems Engineering and Management

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

Aug 2017 – Jan 2022

### Nanjing University

B.S. in Statistics

*Visiting student at UC Berkeley, Spring 2016*

Sep 2013 – Jul 2017

## EMPLOYMENT

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### National University of Singapore

Research fellow at Institute of Operations Research and Analytics

Jan 2022 – current

## RESEARCH

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### Research Interest

- AI & analytics for social good
- Data-driven optimization, robust analytics, trustable machine learning
- Operation management in supply chain, logistics, and sustainable operations.

### Publications & Preprints

\* corresponding author

1. **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*. First submitted in Apr 2024.
2. Long He, Xiaobo Li, **Yue Zhao**\* (alphabetical). Proactive Policing: A Resource Allocation Model for Crime Prevention with Deterrence Effect. Major revision in *Operations Research*. First submitted in Jul 2023.
3. Cheng Chun, Melvyn Sim, **Yue Zhao**\* (alphabetical). Robust Workforce Management with Crowdsourced Delivery. Minor revision in *Operations Research*. First submitted in Mar 2023.
4. **Yue Zhao**, Zhi Chen, Zhenzhen Zhang. Distributionally Robust Chance Constrained  $p$ -Hub Center Problem. *Inform Journal on Computing* **35(6) (2023): 1361-1382**.
5. **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**.
6. 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: IEEE/CVF International Conference on Computer Vision*. (Top AI conference)
7. **Yue Zhao**, Yuwei Wu, Caihua Chen, Andrew Lim. On Isometry Robustness of Deep 3D Models under Adversarial Attacks. *CVPR 2020: IEEE/CVF Conference on Computer Vision and Pattern Recognition*. (Top AI conference)

## Selected Work in Progress

1. Network Design for Sustainable and Efficient Operations of Net-Zero Data Centers. With Sheng Liu, Ho-yin Mark, and Shixuan Zhang.
2. Supply Chain Resilience Management with Moment-dispersion Ambiguity. With Chun Cheng, Melvyn Sim, and Taozeng Zhu.

## TEACHING

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### 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

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- “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

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- 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

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### Reviewer Service

- Ad-hoc Reviewer  
 Informis 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**

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Prof. Melvyn Sim  
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NUS Business School  
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Associate Professor  
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