

Yue ZHAO

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EDUCATION

National University of Singapore

Ph.D. in Operations Research

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

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
- Smart city operations
- Transportation 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. **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* (AI conference).
7. **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 Mark, 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

- “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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