

XUN ZHANG

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EDUCATION

National University of Singapore

Aug 2017-Aug 2021

Ph.D. in Industrial Systems Engineering and Management

Advisor(s): A/P Zhisheng Ye and Dr. William Benjamin Haskell

Nanjing University

Sep 2013 - June 2017

B.S. in Mathematics

RESEARCH INTERESTS

- Data-driven decision making
- Iterative algorithms for solving large-scale optimization problem
- Interface between operations management and asymptotic statistics
- Convergence analysis in simulation optimization

PUBLICATION AND PREPRINTS

- X. Zhang, W. B. Haskell, Z. Ye (2021), "A unifying framework for variance reduction algorithms for finding zeroes of monotone operators", *Journal of Machine Learning Research*, 23 (60), 1-44
- X. Zhang, Z. Ye, W. B. Haskell (2021), "Asymptotic analysis for data-driven inventory policies", under second-round review at *Operations Research*
- H. Wang, X. Zhang, and S. H. Ng (2020), "A nonparametric Bayesian approach for simulation optimization with input uncertainty", submitted to *SIAM/ASA Journal on Uncertainty Quantification*.

WORK IN PROGRESS

- "Data-driven inventory policies under dependent demand and feature information", with X. Li and Z. Ye, in preparation
- "Data-driven policies for risk-adverse inventory management", with X. Jang and Z. Ye, in preparation.
- "Asymptotic efficiency of data-driven inventory policies", with J. Wang and Z. Ye, in preparation.

CONFERENCE PROCEEDINGS

- H. Wang, X. Zhang, and S. H. Ng, "A gaussian process based algorithm for stochastic simulation optimization with input distribution uncertainty", Winter Simulation Conference, 2020.

CONFERENCE PRESENTATIONS

- X. Zhang, W. B. Haskell, Z. Ye, "A unifying framework for finding zeroes for variance reduction algorithm for finding zeroes of monotone operators", INFORMS Annual Meeting, Seattle, the USA, October 2019.

WORK EXPERIENCE

Research Fellow

July 2022- present

- SIA-NUS Digital Aviation Corporate Laboratory
- Singapore Airlines & National University of Singapore, Singapore
- PI: Professor Teo Chung Piaw

Research Fellow

Sep 2021- June 2022

- Department of Industrial Systems Engineering and Management
- National University of Singapore, Singapore
- PI: A/P Ye Zhisheng

TEACHING

I am the tutor of the following courses

IE4210 – Operations Research II, Spring 2018, 2019, 2020, NUS, Lecturer: Ng Kien Ming

IE3101– Statistics for Engineering Application, Fall 2018, 2019, 2020, NUS, Lecturer: Ng Szu Hui and Napat Rujeerapaiboon

EXTRACURRICULAR

- Tennis (level around NTRP 2.5-3.0)
- Street Dance (with a focus on Poppin dancing)
- Go (level around 5K-1D)

AWARD

- The First Prize of Mathematical Modeling Contest for National College Students, Nanjing, 2015
- Elite program scholarship, Nanjing, 2013-2017
- The people's scholarship, Nanjing, 2013-2017
- The First Prize of Chinese Mathematical Society (Jiang Su province), 2012