

HAOWEI WANG

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EDUCATION

National University of Singapore (NUS)

Doctor of Philosophy, Department of Industrial Systems Engineering and Management

Singapore

Aug 2016 - Feb 2021

- Advisor: A/P Szu Hui Ng, GPA: 4.5/5.0 (Highest distinction)

Nanjing University (NJU)

Bachelor of Engineering, School of Management and Engineering

Nanjing, China

Sep 2012 – Jun 2016

- Major in Industrial Engineering, GPA: 4.4/5.0

RESEARCH INTERESTS AND EXPERTISE

- Stochastic computer simulation modeling and data analysis
- Bayesian optimization and engineering design
- Applied statistics and machine learning

PUBLICATIONS

- Informational Approach to Global Optimization with Input Uncertainty for Homoscedastic Stochastic Simulation (with Szu Hui Ng and Jun Yuan). IEEE International Conference on Industrial Engineering and Engineering Management (IEEM) (pp. 1396-1400), 2018. **Outstanding Paper Award.**
- Gaussian process based optimization algorithms with input uncertainty (with Szu Hui Ng and Jun Yuan). IIE Transactions, 52(4), 377-393, 2019.
- Ship emission mitigation strategies choice under uncertainty (with Jun Yuan, Szu Hui Ng and Victor Nian). Energies, 13, 2213, 2020.
- A Gaussian process based algorithm for stochastic simulation optimization with input distribution uncertainty (with Szu Hui Ng and Xun Zhang). 2020 Winter Simulation Conference. Accepted.
- A nonparametric Bayesian approach for simulation optimization with input uncertainty (with Szu Hui Ng and Xun Zhang). Submitted. 2021.
- Enhanced global optimization with parallel global and local structures (with Songhao Wang, Qun Meng and Szu Hui Ng. Submitted. 2021.
- A fast-computation Thompson sampling approach for online simulation optimization with input uncertainty (with Szu Hui Ng and Xun Zhang). Working paper. 2021

TEACHING

- IE 5121 Quality Management & Planning (teaching assistant), NUS Spring 2016
- IE 2100/ IE 2100E Probability Models with Applications (teaching assistant), NUS Spring 2017
- IE 3110/ IE3110E Simulation (teaching assistant), NUS Fall 2017, 2018, 2019
- IE 5504 Systems Modeling and Advanced Simulation (teaching assistant), NUS Fall 2017, 2018, 2019

WORK EXPERIENCE

ABB Bailey Beijing Engineering Co. Ltd.

Supply chain management manager assistant intern

Beijing, China

Jul 2015 – Aug 2015

- Responsible for inventory data analysis and contracts classification.

AWARDS

Specialty Award of People's Scholarship, NJU

Oct 2013

Second Prize of People's Scholarship, NJU

Oct 2014

Second Prize, 2015 Tencent Innovation and Entrepreneurship Competition

Apr 2015

First Prize of People's Scholarship, NJU

Nov 2015

Outstanding Graduates Award, NJU

Jun 2016

NUS Research Scholarship, NUS

Aug 2016 – Jul 2020

OTHERS

Programming skills: Python, R, Matlab

Hobbies: Multiplayer online battle arena (MOBA) and First-person Shooter (FPS) games; swimming; history.