

Jangwon Park

Updated Sept. 2025

Contact	<i>Email:</i> jangwon.park@mail.utoronto.ca <i>Webpages:</i> https://parkjan4.github.io/ , LinkedIn	
Education	University of Toronto Ph.D., Operations Research Advisors: Timothy Chan, Vahid Sarhangian	Sept. 2021 – Present
	École Polytechnique Fédérale de Lausanne MSc., Management of Technology Advisors: Daniel Kuhn, Evangelos Vrettos	Sept. 2018 – Aug. 2020
	University of Toronto BASc., Engineering Science	Sept. 2013 – Jun. 2018
Research Areas	stochastic modeling and control, operations management, causal inference, health policy	
Professional Experience	Research Intern <i>Swissgrid Ltd.</i> , Aarau, Switzerland ◇ Developed a hybrid optimization algorithm for employee scheduling, solving various instances by an order of magnitude faster than CPLEX, a commercial solver.	Mar. 2020 – Oct. 2020
	Data Analyst <i>Celestica International Inc.</i> , Toronto, ON, Canada ◇ Automated the monthly financial reporting process using Sisense and SQL, reducing task completion time from 8 to 2 hours per month.	May 2016 – Aug. 2017
	Mechanical and Industrial Engineering, University of Toronto <i>Instructor</i> , Analytics in Action (MIE368) <i>Teaching assistant</i> , Stochastic Simulation (MIE1613) <i>Teaching assistant</i> , Analytics in Action (MIE368)	Fall 2024 Spring 2023, 2024, 2025 Fall 2022, 2023
Teaching Experience	Management, University of Toronto Scarborough <i>Teaching assistant</i> , Advanced Business Data Analytics (OD31)	Summer 2022
	Statistics Without Borders <i>Volunteer instructor</i> , machine learning [video lesson]	Spring 2023
	A hybrid optimization approach for employee rostering: Use cases at Swissgrid and lessons learned [arXiv print] <u>J. Park</u> , E. Vrettos	
Industry Project		
Working Papers	Causal impact of inter-hospital patient transfers C. W. Chan, J. Park, V. Sarhangian	
	Work in progress	

Dynamic transfer policies for parallel queues [[arXiv](#)]

T. C. Y. Chan, [J. Park](#), V. Sarhangian

Submitted for Major Revision, Operations Research, 2025

Optimizing inter-hospital patient transfer decisions: a queueing network approach [[SSRN](#)]

T. C. Y. Chan, [J. Park](#), F. Pogacar, V. Sarhangian, E. Hellsten, F. Razak, A. Verma

Submitted for Major Revision, Manufacturing & Service Operations Management, 2025

Robust confidence bands for stochastic processes using simulation [[arXiv](#)]

T. C. Y. Chan, [J. Park](#), V. Sarhangian

Submitted for Minor Revision, Operations Research Letters, 2025

Published
Papers

Evolution of the surgical procedure gap during and after the COVID-19 pandemic in Ontario, Canada: a cross-sectional and modeling study

R. Stephenson, V. Sarhangian, [J. Park](#), T. C. Y. Chan, and 13 others

British Journal of Surgery, Vol. 2023, pp. znad289, 2023.

Trends in Short-Term Renewable and Load Forecasting for Applications in Smart Grid

D. Kundar, D. Lee, [J. Park](#)

Smart City 360 (2016), pp. 292-300

Presentations

“Dynamic Transfer Policies in Parallel Queues”

INFORMS Annual Meeting 2024, Seattle, WA, USA

MSOM Conference 2025, London, UK

INFORMS APS Conference 2025, Atlanta, GA, USA

“Optimizing inter-hospital patient transfer decisions”

MSOM Healthcare SIG 2025, London, UK

“Robust confidence bands for stochastic processes using simulation”

Ph.D. Colloquium, Winter Simulation Conference 2024, Orlando, FL, USA

Selected
Awards

Research

1st place, 2024 CORS Healthcare OR SIG Student Paper Competition

2nd place, 2024 CORS Queueing & Applied Prob. SIG Student Paper Competition

Scholarships

Mart Liinve Graduate Scholarship (\$3,800) 2024

NSERC Canada Graduate Scholarship (\$115,000) 2023–26

Ontario Graduate Scholarship (\$15,000) 2022–23

6T6 Industrial Engineering 50th Anniversary Award (\$3,000) 2021, 2022

Queen Elizabeth II Graduate Scholarship (\$15,000) 2021–22

Service

Ad-hoc journal referee:

Health Care Management Science

Conference session chair:

INFORMS Healthcare Conference 2023

INFORMS Annual Meeting 2024

CORS Annual Conference 2025