

Jangwon Park

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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	2021 – Present
	École Polytechnique Fédérale de Lausanne MSc., Management of Technology	2018 – 2020
	University of Toronto BASc., Engineering Science	2013 – 2018
Research Areas	stochastic modeling and control, applied machine learning, operations management, public policy	
Professional Experience	Research Intern <i>Swissgrid Ltd.</i> , Aarau, Switzerland - Developed a hybrid optimization algorithm for employee scheduling which can solve 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
Teaching Assistantship	Mechanical and Industrial Engineering, University of Toronto Stochastic Simulation (MIE1613) Analytics in Action (MIE368)	Spring 2023 Fall 2022, 2023
	Management, University of Toronto Scarborough Advanced Business Data Analytics (OD31)	Summer 2022
Industry Project	A hybrid optimization approach for employee rostering: Use cases at Swissgrid and lessons learned [arXiv print] <u>J. Park, E. Vrettos</u>	
Working Papers	Constructing robust confidence bands for time series simulation outputs T. C. Y. Chan, <u>J. Park</u> , V. Sarhangian <i>Draft in progress, 2024</i>	
	Dynamic transfer policies for parallel queues [arXiv print] T. C. Y. Chan, <u>J. Park</u> , V. Sarhangian <i>Under review, 2024</i>	

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

T. C. Y. Chan, [J. Park](#), F. Pogacar, V. Sarhangian, E. Hellsten, F. Razak, A. Verma
Under review, 2024

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 Load Balancing in Parallel Queueing Networks”
INFORMS Annual Meeting 2022, Indianapolis, IN, USA

“Dynamic Policies for Inter-Hospital Patient Transfers”
INFORMS Healthcare Conference 2023, Toronto, ON, Canada
INFORMS Annual Meeting 2023, Phoenix, AZ, USA

Selected
Awards

Academic and Research

Mart Liinve Graduate Scholarship (\$3,800)	2024
NSERC Canada Graduate Scholarship (\$105,000)	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
NSERC Undergraduate Student Research Award (\$4,500)	2015
University of Toronto Scholars (\$5,000)	2013

Other
Involvement

Volunteer Instructor (Machine Learning) [[video lesson](#)] Jan. 2023 - Present
Statistics Without Borders

Volunteer Researcher Sep. 2017 - Sep. 2018
The Rainmaker Enterprise, Technology Research and Procurement

VP Operations Sep. 2017 - Jun. 2018
NSight, student mentorship program, University of Toronto

Co-founder and President Sep. 2017 - Jun. 2018
We4Others, student organization, University of Toronto

Co-founder and President Jun. 2015 - Aug. 2016
Korean Catholics, student organization, University of Toronto

Volunteer May 2014 - Jul. 2014
Operation Groundswell
[Blog post](#)