

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 Advisors: Timothy Chan, Vahid Sarhangian École Polytechnique Fédérale de Lausanne MSc., Business Analytics Advisors: Daniel Kuhn, Evangelos Vrettos University of Toronto BASc., Engineering Science	Sept. 2021 – Present Sept. 2018 – Aug. 2020 Sept. 2013 – Jun. 2018
Research Areas	health policy, operations management stochastic modeling and control, causal inference	
Working Papers	Causal impact of inter-hospital patient transfers Carri W. Chan, Jangwon Park, Vahid Sarhangian, et al. In preparation for <i>Management Science</i> Dynamic transfer policies for parallel queues [arXiv] Timothy C. Y. Chan, Jangwon Park, Vahid Sarhangian <i>Submitted for Major Revision, Operations Research, 2025</i> ◊ Runner-up , 2024 CORS Queueing SIG Student Paper Competition Optimizing inter-hospital patient transfer decisions: a queueing network approach [SSRN] Timothy C. Y. Chan, Jangwon Park, Frances Pogacar, Vahid Sarhangian, et al. <i>Submitted for Major Revision, M&SOM, 2025</i> ◊ Winner , 2024 CORS Healthcare SIG Student Paper Competition ◊ Selected for presentation , 2025 MSOM Healthcare SIG Robust confidence bands for stochastic processes using simulation [arXiv] Timothy C. Y. Chan, Jangwon Park, Vahid Sarhangian <i>Submitted for Minor Revision, Operations Research Letters, 2025</i>	
Published Papers	Evolution of the surgical procedure gap during and after the COVID-19 pandemic in Ontario, Canada: a cross-sectional and modeling study Rachel Stephenson, Vahid Sarhangian, Jangwon Park, et al. <i>British Journal of Surgery</i> , Vol. 2023, pp. znad289, 2023. Trends in Short-Term Renewable and Load Forecasting for Applications in Smart Grid Deepa Kundar, Dongchan Lee, Jangwon Park <i>Smart City 360</i> (2016), pp. 292-300	

Teaching Experience	Mechanical and Industrial Engineering, University of Toronto	
	<i>Instructor</i> , Analytics in Action (MIE368), <i>Instructor Rating: 4.5/5</i>	Fall 2024
	<i>Teaching assistant</i> , Stochastic Simulation (MIE1613)	Spring 2023, 2024, 2025
	<i>Teaching assistant</i> , Analytics in Action (MIE368)	Fall 2022, 2023
	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
Professional Experience	Research Intern	Mar. 2020 – Oct. 2020
	<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.	
	Data Analyst	May 2016 – Aug. 2017
	<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.	
Industry Projects	Automating Order Management Process at Daily Bread Food Bank	
	Helen Lee, Jangwon Park , Rachel Wong	
	◊ Reduced staff time from 2 days to 2 hours per week.	
	A hybrid optimization approach for employee rostering: Use cases at Swissgrid and lessons learned [arXiv print]	
	Jangwon Park , E. Vrettos	
Presentations	“Dynamic Transfer Policies in Parallel Queues”	
	CORS Annual Conference 2024, London, ON, Canada	
	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”	
	CORS Annual Conference 2024, London, ON, Canada	
	MSOM Healthcare SIG 2025, London, UK	
	“Robust confidence bands for stochastic processes using simulation”	
	Ph.D. Colloquium, Winter Simulation Conference 2024, Orlando, FL, USA	
Research Mentorship	Helen Lee (undergraduate thesis)	Sept. 2025–Present
	Arman Zahar (undergraduate research project)	Aug. 2025–Present

Selected Awards	Research	
	1 st place, 2024 CORS Healthcare OR SIG Student Paper Competition	
	2 nd place, 2024 CORS Queueing & Applied Prob. SIG Student Paper Competition	
	Scholarships	
	NSERC Canada Graduate Scholarship (\$115,000)	2023–26
	Mart Liinve Graduate Scholarship (\$3,800)	2024
	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
Service	Ad-hoc journal referee:	
	Health Care Management Science	
	Conference session chair:	
	CORS Annual Conference	2025
	INFORMS Annual Meeting	2024
References	INFORMS Healthcare Conference	2023
	Timothy C. Y. Chan	
	Associate Vice-President and Vice-Provost, Strategic Initiatives	
	Professor, Mechanical and Industrial Engineering	
	University of Toronto	
	tcy.chan@utoronto.ca	
	Vahid Sarhangian	
	Associate Professor, Mechanical and Industrial Engineering	
	University of Toronto	
	sarhangian@mie.utoronto.ca	
	Philipp Afèche	
	Professor, Operations Management and Statistics	
	Rotman School of Management, University of Toronto	
	philipp.afeche@rotman.utoronto.ca	