

# Jangwon Park

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Contact	<i>Email:</i> jangwon.park@mail.utoronto.ca <i>Webpages:</i> <a href="https://parkjan4.github.io/">https://parkjan4.github.io/</a> , <a href="#">LinkedIn</a>	
Education	<b>University of Toronto</b> Ph.D., Operations Research Advisors: Timothy Chan, Vahid Sarhangian	Sept. 2021 – Present
	<b>École Polytechnique Fédérale de Lausanne</b> MSc., Management of Technology Advisors: Daniel Kuhn, Evangelos Vrettos	Sept. 2018 – Aug. 2020
	<b>University of Toronto</b> BASc., Engineering Science	Sept. 2013 – Jun. 2018
Research Areas	stochastic modeling and control, applied machine learning, operations management, health policy	
Professional Experience	<b>Research Intern</b> <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
	<b>Data Analyst</b> <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
	<b>Mechanical and Industrial Engineering, University of Toronto</b> <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	<b>Management, University of Toronto Scarborough</b> <i>Teaching assistant</i> , Advanced Business Data Analytics (OD31)	Summer 2022
	<b>Statistics Without Borders</b> <i>Volunteer instructor</i> , machine learning [ <a href="#">video lesson</a> ]	Spring 2023
Industry Project	<b>A hybrid optimization approach for employee rostering: Use cases at Swissgrid and lessons learned</b> [ <a href="#">arXiv print</a> ] <u>J. Park</u> , E. Vrettos	

Working Papers	<b>Robust confidence bands for stochastic processes using simulation</b> [ <a href="#">arXiv</a> ] T. C. Y. Chan, <a href="#">J. Park</a> , V. Sarhangian <i>Minor revision, Operations Research Letters, 2024</i>
	<b>Dynamic transfer policies for parallel queues</b> [ <a href="#">arXiv</a> ] T. C. Y. Chan, <a href="#">J. Park</a> , V. Sarhangian <i>Major revision, Operations Research, 2024</i>
	<b>Optimizing inter-hospital patient transfer decisions: a queueing network approach</b> [ <a href="#">SSRN</a> ] T. C. Y. Chan, <a href="#">J. Park</a> , F. Pogacar, V. Sarhangian, E. Hellsten, F. Razak, A. Verma <i>Major revision, Manufacturing &amp; Service Operations Management, 2024</i>
Published Papers	<b>Evolution of the surgical procedure gap during and after the COVID-19 pandemic in Ontario, Canada: a cross-sectional and modeling study</b> R. Stephenson, V. Sarhangian, <a href="#">J. Park</a> , T. C. Y. Chan, and 13 others <i>British Journal of Surgery</i> , Vol. 2023, pp. znad289, 2023.
	<b>Trends in Short-Term Renewable and Load Forecasting for Applications in Smart Grid</b> D. Kundar, D. Lee, <a href="#">J. Park</a> <i>Smart City 360</i> (2016), pp. 292-300
Presentations	“Dynamic Transfer Policies in Parallel Queues” INFORMS Annual Meeting 2023, Pheonix, AZ, USA CORS Annual Conference 2024, London, ON, Canada INFORMS Annual Meeting 2024, Seattle, WA, USA
	“Optimizing inter-hospital patient transfer decisions during a pandemic” CORS Annual Conference 2024, London, ON, Canada
	“Robust confidence bands for stochastic processes using simulation” Ph.D. Colloquium, Winter Simulation Conference 2024, Orlando, FL, USA
Selected Awards	<b>Research</b> 1 <sup>st</sup> place, 2024 CORS Healthcare OR SIG Student Paper Competition 2 <sup>nd</sup> place, 2024 CORS Queueing & Applied Prob. SIG Student Paper Competition
	<b>Scholarships</b> 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	<b>Ad-hoc journal referee:</b> Health Care Management Science
	<b>Conference session chair:</b> INFORMS Healthcare Conference 2023 INFORMS Annual Meeting 2024 CORS Annual Conference 2025