

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	Sept. 2021 – Present
	Ph.D., Operations Research Advisors: Timothy Chan, Vahid Sarhangian	
	École Polytechnique Fédérale de Lausanne	2018 – 2020
	MSc., Management of Technology Advisors: Daniel Kuhn, Evangelos Vrettos	
	University of Toronto	2013 – 2018
	BASc., Engineering Science	
Research Areas	stochastic modeling and control, applied machine learning, operations management, public policy	
Professional Experience	Research Intern	Mar. 2020 – Oct. 2020
	<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.	
	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.	
Teaching Assistantship	Mechanical and Industrial Engineering, University of Toronto	
	Stochastic Simulation (MIE1613)	Spring 2023, 2024
	Analytics in Action (MIE368)	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] J. Park , E. Vrettos	
Working Papers	Robust confidence bands for transient simulation outputs T. C. Y. Chan, J. Park , V. Sarhangian <i>Draft in progress, 2024</i>	
	Dynamic transfer policies for parallel queues [arXiv print] T. C. Y. Chan, J. Park , V. Sarhangian <i>Under review, 2024</i>	

	<p>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 <i>Major revision, Manufacturing & Service Operations Management</i>, 2024</p>
Published Papers	<p>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 <i>British Journal of Surgery</i>, Vol. 2023, pp. znad289, 2023.</p> <p>Trends in Short-Term Renewable and Load Forecasting for Applications in Smart Grid D. Kundar, D. Lee, J. Park <i>Smart City 360</i> (2016), pp. 292-300</p>
Presentations	<p>“Dynamic Transfer Policies in Parallel Queues” INFORMS Annual Meeting 2022, Indianapolis, IN, USA INFORMS Healthcare Conference 2023, Toronto, ON, Canada INFORMS Annual Meeting 2023, Pheonix, AZ, USA CORS Annual Conference 2024, London, ON, Canada</p> <p>“Optimizing inter-hospital patient transfer decisions during a pandemic” CORS Annual Conference 2024, London, ON, Canada</p>
Selected Awards	<p>Research 1st place, 2024 CORS Healthcare OR SIG Student Paper Competition 2nd place, 2024 CORS Queueing & Applied Prob. SIG Student Paper Competition</p> <p>Scholarships 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</p>
Other Involvement	<p>Volunteer Instructor (Machine Learning) [video lesson] Jan. 2023 – Mar. 2023 <i>Statistics Without Borders</i></p> <p>Volunteer Researcher Sep. 2017 – Sep. 2018 <i>The Rainmaker Enterprise</i>, Technology Research and Procurement</p> <p>VP Operations Sep. 2017 – Jun. 2018 <i>NSight</i>, student mentorship program, University of Toronto</p> <p>Co-founder and President Sep. 2017 – Jun. 2018 <i>We4Others</i>, student organization, University of Toronto</p> <p>Co-founder and President Jun. 2015 – Aug. 2016 <i>Korean Catholics</i>, student organization, University of Toronto</p> <p>Volunteer [Blog post] May 2014 – Jul. 2014 <i>Operation Groundswell</i></p>