

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

	<b>Optimizing inter-hospital patient transfer decisions during a pandemic: a queueing network approach</b> [ <a href="#">SSRN print</a> ] T. C. Y. Chan, <a href="#">J. Park</a> , F. Pogacar, V. Sarhangian, E. Hellsten, F. Razak, A. Verma <i>Under review, 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 <b>British Journal of Surgery</b> , 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> <b>Smart City 360</b> (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, Pheonix, AZ, USA	
Selected Awards	<b>Aacademic and Research</b> 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	<b>Volunteer Instructor (Machine Learning)</b> [ <a href="#">video lesson</a> ] Jan. 2023 - Present <i>Statistics Without Borders</i>  <b>Volunteer Researcher</b> Sep. 2017 - Sep. 2018 <i>The Rainmaker Enterprise</i> , Technology Research and Procurement  <b>VP Operations</b> Sep. 2017 - Jun. 2018 <i>NSight</i> , student mentorship program, University of Toronto  <b>Co-founder and President</b> Sep. 2017 - Jun. 2018 <i>We4Others</i> , student organization, University of Toronto  <b>Co-founder and President</b> Jun. 2015 - Aug. 2016 <i>Korean Catholics</i> , student organization, University of Toronto  <b>Volunteer</b> May 2014 - Jul. 2014 <i>Operation Groundswell</i> <a href="#">Blog post</a>	