

# 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, operations management, causal inference, 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:</b> <b>Use cases at Swissgrid and lessons learned</b> [ <a href="#">arXiv print</a> ] <u>J. Park</u> , E. Vrettos	

Working Papers	<p><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, 2025</i></p> <p><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, 2025</i></p> <p><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, 2025</i></p>
	<p><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.</p> <p><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</p>
	<p><b>Published Papers</b></p>
Presentations	<p>“Dynamic Transfer Policies in Parallel Queues”  INFORMS Annual Meeting 2024, Seattle, WA, USA  MSOM Conference 2025, London, UK  INFORMS APS Conference 2025, Atlanta, GA, USA</p> <p>“Optimizing inter-hospital patient transfer decisions”  MSOM Healthcare SIG 2025, London, UK</p> <p>“Robust confidence bands for stochastic processes using simulation”  Ph.D. Colloquium, Winter Simulation Conference 2024, Orlando, FL, USA</p>
	<p><b>Selected Awards</b></p> <p><b>Research</b>  1<sup>st</sup> place, 2024 CORS Healthcare OR SIG Student Paper Competition  2<sup>nd</sup> place, 2024 CORS Queueing &amp; Applied Prob. SIG Student Paper Competition</p> <p><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</p>
	<p><b>Service</b></p> <p><b>Ad-hoc journal referee:</b>  Health Care Management Science</p> <p><b>Conference session chair:</b>  INFORMS Healthcare Conference 2023  INFORMS Annual Meeting 2024  CORS Annual Conference 2025</p>