

Jangwon Park

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Contact	Department of Mechanical and Industrial Engineering University of Toronto, Toronto, ON, Canada <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 C. Y. Chan, Vahid Sarhangian	2021 – Present
	École Polytechnique Fédérale de Lausanne MSc., Management of Technology Advisors: Daniel Kuhn, Evangelos Vrettos	2018 – 2020
	University of Toronto BASc., Engineering Science Advisor: Chi-Guhn Lee	2013 – 2018
Research Interests	stochastic modeling and control, applied machine learning, healthcare operations management, public policy	
Working Papers	<i>Note: Authors are listed alphabetically</i> Optimal dynamic transfer policies for parallel queues Timothy C. Y. Chan, Jangwon Park , Vahid Sarhangian <i>In preparation, 2023</i> Optimizing inter-hospital patient transfer decisions during a pandemic: a queueing network approach Timothy C. Y. Chan, Jangwon Park , Frances Pogacar, Vahid Sarhangian <i>Under revision</i> Evolution of the surgical procedure gap during and after the COVID-19 pandemic in Ontario, Canada: a cross-sectional and modeling study Timothy C. Y. Chan, Jangwon Park , Vahid Sarhangian, Rachel Stephenson <i>Under review</i>	
Published Papers	Trends in Short-Term Renewable and Load Forecasting for Applications in Smart Grid Deepa Kundar, Dongchan Lee, Jangwon Park Smart City 360 (2016), pp. 292-300	
Industry Project	A hybrid optimization approach for employee rostering: Use cases at Swissgrid and lessons learned Jangwon Park , Evangelos Vrettos https://arxiv.org/abs/2111.10845	

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 (scheduled)	
Selected Awards	Aacademic and Research	
	N SERC 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
	N SERC Undergraduate Student Research Award (\$4,500)	2015
	University of Toronto Scholars (\$5,000)	2013
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 up to an order of magnitude faster than CPLEX, a commercial solver.	
	- Created a functional GUI to support the employee rostering model.	
	Data Analyst	May 2016 - Aug. 2017
Research Assistantship	<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.	
	Graduate Research Assistant	Apr. 2019 - Nov. 2019
	<i>École Polytechnique Fédérale de Lausanne</i>	
	Collection and processing of longitudinal value-added-tax rates in Europe in MATLAB.	
Teaching Assistantship	Undergraduate Research Assistant	May 2015 - Aug. 2015
	<i>University of Toronto</i>	
	Creation of reusable scripts for power grid analysis in MATLAB.	
	Mechanical and Industrial Engineering, University of Toronto	
	Stochastic Simulation (MIE1613)	Spring 2023
	Analytics in Action (MIE368)	Fall 2022
	Management, University of Toronto Scarborough	
	Advanced Business Data Analytics (OD31)	Summer 2022

Other Involvement	Volunteer <i>Statistics Without Borders</i>	Jan. 2023 - Present
	Volunteer Researcher <i>The Rainmaker Enterprise</i> , Technology Research and Procurement	Sep. 2017 - Sep. 2018
	VP Operations <i>NSight</i> , student mentorship program, University of Toronto	Sep. 2017 - Jun. 2018
	Co-founder and President <i>We4Others</i> , student organization, University of Toronto	Sep. 2017 - Jun. 2018
	Co-founder and President <i>Korean Catholics</i> , student organization, University of Toronto	Jun. 2015 - Aug. 2016
	Volunteer <i>Operation Groundswell</i> Blog post	May 2014 - Jul. 2014