

PHILIPPE OLIVIER

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CONTRACT WORK	Tribe AI	07/2024–Now
	<ul style="list-style-type: none">• Role: Operations Research Scientist• Job scheduling tool for the automotive industry• Used by Keyloop in several hundred workshops around the world	
	pganalyze	08/2022–Now
	<ul style="list-style-type: none">• Role: Research & Development Scientist• Optimizing and automating index selection in databases	
	Integrated Reasoning	06/2023–07/2024
EDUCATION	<ul style="list-style-type: none">• Role: Scientific Advisor• Operations research, modeling, and optimization	
	Kaster	10/2023–05/2024
	<ul style="list-style-type: none">• Role: Applied Research Scientist• Production planning and scheduling for pharmaceutical products	
	Polytechnique Montréal	08/2016–05/2021
	PhD, Computer Engineering	
RESEARCH	Université Laval	08/2012–05/2016
	BSc, Computer Science	
	INTERESTS	
	<ul style="list-style-type: none">• Operations research• Constraint programming• Integer programming	
	PUBLICATIONS	
	Fairness over Time in Dynamic Resource Allocation with an Application in Healthcare	
	Lodi, A., Olivier, P., Pesant, G., and Sankaranarayanan S.	
	<i>Mathematical Programming</i> (2022)	
	Measures of Balance in Combinatorial Optimization	
	Olivier, P., Lodi, A., and Pesant, G.	
	<i>4OR</i> (2021)	
	The Quadratic Multiknapsack Problem with Conflicts and Balance Constraints	
	Olivier, P., Lodi, A., and Pesant, G.	
	<i>INFORMS Journal on Computing</i> (2020)	
	A Comparison of Optimization Methods for Multi-Objective Constrained Bin Packing Problems	
	Olivier, P., Lodi, A., and Pesant, G.	
	<i>Integration of AI and OR Techniques in Constraint Programming, Delft, Netherlands, (CPAIOR 2018)</i> (2018)	

CONFERENCE PRESENTATIONS

PGCon 2023 (Ottawa, Canada)	06/2023
Automating Index Selection Using Constraint Programming	
JOPT 2023 (Montreal, Canada)	05/2023
Optimizing Database Index Selection Using Constraint Programming	
CPAIOR 2018 (Delft, Netherlands)	06/2018
A Comparison of Optimization Methods for Multi-Objective Constrained Bin Packing Problems	
JOPT 2018 (Montreal, Canada)	05/2018
A Comparison of Optimization Methods for Multi-Objective Constrained Bin Packing Problems	
IFORS 2017 (Quebec, Canada)	07/2017
Solving the Wedding Seating Problem by Constraint Programming	

POSTER PRESENTATIONS

CP 2019 (Stamford, United States)	10/2019
Measures of Balance in Combinatorial Optimization	

MEMBER

Laboratoire Quosséca	08/2016–05/2021
Canada Excellence Research Chair in Data Science for Real-Time Decision-Making	08/2016–05/2021

TEACHING**COURSE LECTURER****Polytechnique Montréal**

• INF1005D: Procedural Programming in Python	01/2023–05/2023
• INF1005D: Procedural Programming in Python	08/2022–12/2022
• INF1005D: Procedural Programming in Python	08/2021–12/2021

Université du Québec à Montréal

• INF1070: Administration of Computer Systems (two classes)	08/2022–12/2022
• INF1070: Administration of Computer Systems	01/2022–04/2022

TEACHING ASSISTANT**Polytechnique Montréal**

• INF4705/INF8775: Algorithm Design	01/2018–12/2019
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Université Laval

08/2013–12/2013

PROJECTS**Fantasy Solver**

06/2021–Now

Multi-objective solver for optimal lineup generation in multi-entry *Daily Fantasy Sports* (DFS) tournaments. It is, to my knowledge, the only exact solver for generating provably optimal sets of lineups for DFS tournaments.