philippe@pedtsr.ca github.com/PhilippeOlivier 1-514-433-5700

WORK CONTRACT WORK

 ${\bf pganalyze} \hspace{1.5cm} 08/2022 – {\bf Now}$

- Built an optimization model for automated index selection in databases
- This multi-objective model can be fine-tuned by the user
- Working on publishing research related to this model

EMPLOYMENT

Hydro-Québec TransÉnergie

09/2014 - 04/2015

- Automated data transfers to/from specialized software
- Automated testing performed by electrical engineers

EDUCATION Polytechnique Montréal

08/2016 - 05/2021

PhD, Computer Engineering

Université Laval

08/2012 - 05/2016

BSc, Computer Science

RESEARCH INTERESTS

- 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.

Mathematical Programming (2022)

Measures of Balance in Combinatorial Optimization

Olivier, P., Lodi, A., and Pesant, G.

4OR (2021)

The Quadratic Multiknapsack Problem with Conflicts and Balance Constraints

Olivier, P., Lodi, A., and Pesant, G.

INFORMS Journal on Computing (2020)

A Comparison of Optimization Methods for Multi-Objective Constrained Bin Packing Problems

Olivier, P., Lodi, A., and Pesant, G.

Integration of AI and OR Techniques in Constraint Programming, Delft, Netherlands, (CPAIOR 2018) (2018)

CONFERENCE PRESENTATIONS

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

TEACHING

COURSE LECTURER

Polytechnique Montréal

•	INF1005D: Procedural Programming in Python	01/2023-Now
•	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
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) tourneys. It is, to my knowledge, the only exact solver for generating provably optimal sets of lineups for DFS tourneys.