
Academic Employment

- 2019 – **Lazaridis School of Business & Economic, Wilfrid Laurier University, Waterloo, ON, Canada.**
Assistant Professor of Operations and Decision Sciences
- 2019 – **Canada Excellence Research Chair in Data Science for Real-Time Decision-Making, Polytechnique Montreal, Montreal, QC, Canada.**
Researcher
- Oct. 2017– **Polytechnique Montreal, CIRRELT, GERAD, Montreal, QC, Canada.**
June 2019 Postdoctoral researcher
- Oct. 2016– **École de technologie supérieure, CIRRELT, and GERAD, Montreal, QC, Canada.**
Sept. 2017 Postdoctoral researcher

- 2020-2021 CN (Canadian National Railway) through the Centre for Supply Chain Management at Wilfrid Laurier University (\$9,405), "Drone Delivery in Smart Cities: Applications and Challenges", Principal Applicant.
- 2021-2022 CN (Canadian National Railway) through the Centre for Supply Chain Management at Wilfrid Laurier University (\$8,835), "Data-driven Approaches to Analyze Competition and Supply Chain Relationships", Principal Applicant.
- 2021-2022 CN (Canadian National Railway) through the Centre for Supply Chain Management at Wilfrid Laurier University (\$6,166), "Improving Store-wide Shelf Space Planning in Physical Retailing", Principal Applicant.
- 2016-2017 Internationalization Research Fund (Fonds d'internationalisation de la recherche (FIR), École de technologie supérieure - ÉTS (\$30,000), Co-applicant.
- 2015-2018

- [12] Lower bounds for the quadratic minimum spanning tree Problem based on reduced cost computation, with F. Malucelli, *Computers & Operations Research* **64**, Pp 178–188, 2015.
- [13] On the quadratic shortest path problem, with F. Malucelli, D. Frey, and C. Buchheim, *Lecture Notes in Computer Science* **9125**, Pp 379–390, 2015.
- [14] A revised reformulation-linearization technique for the quadratic assignment problem, with F. Malucelli, *Discrete Optimization* **14**, Pp 97–103, 2014.
- [15] A graph optimization approach to item-based collaborative filtering, with P. Cremonesi, F. Malucelli, *Recent Advances in Computational Optimization*, Sative 178–188,[1]

- [2] An application of bicriterion shortest paths to collaborative filtering, with P. Cremonesi, F. Malucelli, Federated Conference on Computer Science and Information Systems - **FedCSIS 2012**, Pp 423–429, 2012.

Technical Report

- [1] The uncapacitated single allocation p-hub median problem with stepwise cost function, with C. Buchheim, [PDF](#), 2017.
- [2] A Tight Lower Bound for the Adjacent Quadratic Assignment Problem, with F. Malucelli and P. Belotti, [PDF](#), 2014.
- [3] Application of graph models in recommender systems, *Technical Report 2012.30, Department of Electronics, information and Bioengineering, Polytechnic University of Milan, Milan, Italy, 2012.*

PhD Dissertation

- [1] Decomposition methods for zero-one quadratic optimization problems, Department of Electronics, information and Bioengineering, Polytechnic University of Milan, 2014.

Students Supervision

2015 Patrick Segieth, "Decomposition Approaches for the Quadratic Assignment Problem", Master

Spring -2020

- { International Federation of Operational Research Societies 2017
- { International Symposium on Combinatorial Optimization 2016.