

Mathieu Besançon

INRIA ASSOCIATE RESEARCHER · MATHEMATICAL OPTIMIZATION

The Big Lab, 3rd Main Street, University Town

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Experience

Chargé de Recherche - Associate Researcher

INRIA, GRENoble ALPES UNIVERSITY

Associate Researcher, POLARIS team, Grenoble Computer Science Laboratory.

Grenoble, France

January 2024 - today

Postdoctoral Researcher

ZUSE INSTITUTE BERLIN

Mathematical Optimization Department.

Berlin, Germany

January 2021 - December 2023

My Former Position in Industry

BIGCORP

Pre-PhD years in Industry.

The Island City, France

August 2016 - September 2017

Education

Double Ph.D. Program

PH.D. IN APPLIED MATHEMATICS AND COMPUTER SCIENCE.

Title: A fancy thesis on hard problems. Advisors: Prof A, Prof B

Polytechnique Montréal, Centrale Lille

September 2017 - December 2020

Master's Thesis

A CAREFULLY CHOSEN TOPIC

OtherUniversity

February - July 2016

Joint Bachelor and Master's of Science

MAJOR IN PROCESS ENGINEERING, MINOR IN MATHEMATICAL MODELLING

Université de Technologie de Compiègne

September 2011 - August 2016

Publications

Technical Reports and Working Papers

[1] Y. Chasseray, M. Besançon, É. Petitdemange, and X. Lorca, *Optimisation Models for the Design of Multiple Self-Consumption Loops in Semi-Rural Areas*, 2404 (2024)

Journal Articles

[2] A. Carderera, M. Besançon, and S. Pokutta, *Scalable Frank–Wolfe on Generalized Self-Concordant Functions via Simple Steps*, SIAM Journal on Optimization (2024)

Conference Papers

[3] G. Mexi, S. Shamsi, M. Besançon, and P. Le Bodic, *Probabilistic Lookahead Strong Branching via a Stochastic Abstract Branching Model*, in *International Conference on Integration of Constraint Programming, Artificial Intelligence, And Operations Research* (2024)

[4] M. Turner, T. Berthold, and M. Besançon, *A Context-Aware Cutting Plane Selection Algorithm for Mixed-Integer Programming*, in *Operations Research Proceedings* (2023)

Supervision

Ph.D. Candidates

- FirstName Candidate, BigSchool. 7.2023 - today. With BigProf.

Recent Master's Theses

- ABC XYZ, Mathematics at Big Univ, Solving hard problems with nice methods, a polyhedral approach 12.2022 - 5.2023. With BigProf.

Recent and Selected Talks

Jul 2024 - **Seminar** LIG laboratory, Grenoble, Introduction to Benders' Decomposition and Applications

Research Visits

- BigUniv, Industrial and Systems Engineering, May 2024
- CoolSchool, Institute of Applied Mathematics, March 2023

Teaching Activities

Advanced Methods of Operations Research

MASTER'S OF OPERATIONS RESEARCH, COMBINATORICS, AND OPTIMIZATION

Université Grenoble Alpes

October 2024 - January 2025

Projects

FrankWolfe.jl

DESIGNER/DEVELOPER

 ZIB-IOL/FrankWolfe.jl

Feb. 2021 - Present

Competitive Funding

- Travel grant from Institution, to attend BigConf, 2024
- Young Investigator Grant, BigLab, funding the Ph.D. of ABC, 2023

Community Service

Reviewing activities

Mathematical Programming, Computers and Operations Research CPAIOR 24 PC member.

Conference Organization

BigConf 2025, PC member.

Other Service

- Selection committee member, assistant professor position, Big School, 2024