Marouane FELLOUSSI

 marouane-f.github.io   marouane.felloussi@uca.fr   +33 4.77.42.93.49

Education

LIMOS Research Laboratory   October 2023 - Present
PhD in Operations Research (supervis. *Xavier Delorme* & *Paolo Gianessi)*   Saint-Étienne, France

Paul Sabatier University   Fall 2022
Operations Research   Toulouse, France

French Civil Aviation University   2019 - 2022
MSc in Aeronautical Engineering   Toulouse, France

Classes préparatoires (CPGE)   2018-2019
Math, Physics (MP*)   Strasbourg, France

Work Experience

Capgemini Engineering R&D   October 2022 - September 2023
Scientific Software Engineer   Toulouse, France
- Development of a centralized optimization software for water production plants

Capgemini Engineering R&D   March 2022 - August 2022
Research intern (supervis. *Isabelle Mirouze* & *Sonia Cafieri*)   Toulouse, France
- MIP for Water Production Scheduling

Labo Aéro - ENAC   Fall 2020 & Summer 2021
Research intern (supervis. *Thierry Klein* & *Nicolas Peteilh*)   Toulouse, France
- Global Sensitivity Analysis for optimized aircraft design

Research Interests

Research	mixed integer programming, column generation, cutting planes
	additive combinatorics, graph theory
	ML for discrete optimization
Applications	scheduling and production planning problems
	covering and packing problems

Skills

Technical Skills	Julia, Python, C++, GAMS/AMPL, ML-tools
	Git, Linux
Soft Skills	Curious and analytical mindset
	Autonomy, dedication, competitiveness
Languages	Bilingual Proficiency : Arabic, English, French