

# MAROUANE FELLOUSSI

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## EDUCATION

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<b>LIMOS Research Lab/Mines Saint-Étienne</b> PhD in Operations Research (supervis. <i>Xavier Delorme &amp; Paolo Gianessi</i> )	October 2023 - Present Saint-Étienne, France
<b>Zuse Institute Berlin</b> Guest Researcher/Doctoral Student at <code>iol-int</code> group	April - September 2025 Berlin, Germany
<b>Paul Sabatier University</b> Operations Research	Fall 2022 Toulouse, France
<b>French Civil Aviation University</b> MSc in Aeronautical Engineering	2019 - 2022 Toulouse, France
<b>Classes préparatoires, Lycée Kléber (CPGE)</b> Math, Physics (MP*)	2018-2019 Strasbourg, France

## WORK EXPERIENCE

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<b>Capgemini Engineering R&amp;D</b> Scientific Software Engineer <ul style="list-style-type: none"><li>Development of a Centralized Optimization Software for Water Production Plants</li></ul>	October 2022 - September 2023 Toulouse, France
<b>Capgemini Engineering R&amp;D</b> Research intern (supervis. <i>Isabelle Mirouze &amp; Sonia Cafieri</i> ) <ul style="list-style-type: none"><li>MIP for Water Production Scheduling</li></ul>	March 2022 - August 2022 Toulouse, France
<b>Labo Aéro - ENAC</b> Research intern (supervis. <i>Thierry Klein &amp; Nicolas Peteilh</i> ) <ul style="list-style-type: none"><li>Global Sensitivity Analysis for Aircraft Design</li></ul>	Fall 2020 & Summer 2021 Toulouse, France

## RESEARCH INTERESTS

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<b>Research</b>	mixed integer programming, column generation, cutting planes machine learning and parallelism for discrete optimization graph theory
<b>Applications</b>	scheduling and production planning problems covering and packing problems

## SKILLS

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<b>Technical Skills</b>	Julia, Python, C++, SCIP Optimization Suite, GAMS, Git, Linux
<b>Soft Skills</b>	Curious and analytical mindset Autonomy, dedication, competitiveness
<b>Languages</b>	Bilingual Proficiency: Arabic, English, French