



Ilias El Ouar

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Languages

English : C1
German : B1
French : Mother tongue

Technical skills

LC / SFC
HRMS/MS and NMR
Pack Office – PIX
Software : Origin -MzMine -
DataAnalysis - Empower - Hystar -
TopSpin - MatLab

Core competences:

Strong quality mindset,
enthusiastic, dynamic, teamwork

References

Agnes LE MASLE

Research engineer, IFP Energies
Nouvelles, Solaize, France

agnes.le-masle@ifpen.fr

David TOUBOUL

Director of Research at CNRS,
LCM, Institut Polytechnique, Paris

David.touboul@cnrs.fr

PhD in analytical chemistry, passionate about developing **innovative** analytical methods and **data processing**. **Multidisciplinary expert** in **LC/SFC coupling with high-resolution tandem mass spectrometry**.

Work Experience

11/2022 – 11/2025  

PhD in Analytical Chemistry
IFP Energies Nouvelles, Solaize, France et Laboratoire de chimie moléculaire (LCM),
École Polytechnique, Palaiseau, France

Thesis : Chemical profiling of specialized bioactive metabolites of the fungus *Trichoderma reesei*

- Development and optimization of non-targeted LC-ESI-HRMS/MS and UHPSFC-HRMS/MS analytical methods for the analysis of complex biological matrices
- Design and implementation of experimental plans
- Development of bioinformatics tools, creation of an in-silico database for peptide annotation and classification based on mass spectrometry data
- Analysis and processing of complex metabolomics data
- Implementation and validation of microbiological activity tests
- Oral communication – JFSM 2025, Montpellier, France | ISC 2024, Liverpool | RFMF 2024, Saint-Malo, France

09/2021 – 09/2022 

Apprentice, Structural Characterization Engineer
TotalEnergies, Centre de Recherche de Solaize, Lyon, France

- NMR and MS analyses for the identification of petroleum products
- Development of 2D 1H analyses (COSY, TOCSY) on 60 MHz Spinsolve benchtop
- Multivariate statistical approach for mapping and predicting product aging

03/2021 – 04/2021 

Intern, NMR Analytical Development Chemist
Centre de Résonance Magnétique Nucléaire à Très Hauts Champs (CRMN),
Villeurbanne, France

- Sample preparation and analysis of complex matrices by NMR (Benchtop 80 MHz)
- Study of relaxation by quantitative NMR and processing in Matlab

Education

2022-2025
PhD in Analytical Chemistry
ED 571 (2MIB), Université Paris-Saclay, France

2020-2022
Master's degree in Physical and Analytical Chemistry
Faculté de Chimie, Université de Claude Bernard, Lyon 1, France

2019-2020
Bachelor's degree in Chemistry
Faculté des Sciences et Techniques, Université de Haute Alsace, Mulhouse, France

2017-2019
First and second year bachelor's degree in advanced physics and chemistry
Faculté des Sciences et Techniques, Université de Haute Alsace, Mulhouse, France