



Sofiane Ferchichi

- Process Online Analyzer Specialist - Analytical Chemist

Nationality: French

CONTACT

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ORCID : 0009-0004-2839-4571

LANGUAGES

NATIVE LANGUAGE:

French

OTHER LANGUAGES:

English C1 (TOEIC: 950)
German A2
Arabic A2

TECHNICAL SKILLS

Expert in laboratory analysis techniques and polyolefins characterization

MATLAB Programming - Data Processing:
Chemometrics

In-depth knowledge in polyolefins recycling (pyrolysis, dissolution)

SCIENTIFIC PRODUCTION

Oral communication in various international congress:

APACT 2024, 85th PMM Polymer for Sustainable Future 2024

Research articles:

Anal. Methods, 2024,16, 3109-3117
3 other articles submitted

REFERENCES

Vincent Monteil, PhD, Head of research
CP2M, Polymer Catalysis Material department
vincent.monteil@univ-lyon1.fr

Nida Othman, PhD, Head of research
LAGEPP, PRODIS department
nida.othman@univ-lyon1.fr

Maud Rey-Bayle, PhD, Online Analysis Engineer
IFPEN, Process Experimentation Division
maud.rey-bayle@ifpen.fr

Young passionate PhD student dedicated to the development of green chemistry

with extensive experience in industrial analysis, online process control, polymer recycling and other R&I projects

WORK EXPERIENCE

11/2022 – 11/2025 - Solaize, France



PhD Student

IFP Energies Nouvelles in collaboration with the CP2M lab

Development of a methodology for the real-time process control of a solvent-based recycling process (lab and pilot scale) for polyolefins

Development of predictive models (polymer degradation, additive content) using chemometric tools.

Applied process engineering to streamline the entire polymer lifecycle

Supervision of an engineering intern, providing guidance on project tasks.

Successfully elevated the international presence of the company through impactful seminars

09/2021 – 09/2022 - Solaize, France

Apprentice, Industrial Analysis Engineer



Axel'One Analysis

Participation in various projects around spectral (SRS-NIR, SRS-UV-Vis) and separative (HPLC, (micro-)GC-MS) techniques.

Responsible of laboratory equipment (maintenance and metrology).

03/2021 – 04/2021 - Solaize, France

Intern, Analytical chemist



Axel'One Analysis

Evaluation of a new micro-GC-MS injection method for online analysis

03/2020 – 04/2020 - Mulhouse, France

Research Intern



Institut de Sciences des Matériaux de Mulhouse (IS2M)

Study of the stability of microporous materials (zeolites) and modeling of their adsorption properties using quantum simulations

EDUCATION AND TRAINING

2022 – 2025 - Lyon, France

Doctoral Degree in Chemistry



Ecole doctorale de Chimie de Lyon

Title: Spectral methods for the *in-situ* monitoring of solvent-based polyolefins recycling processes

2020 – 2022 - Lyon, France

Master Degree in Analytical Chemistry - Industrial Analysis specialization



Université Claude Bernard Lyon 1

2017 – 2020 - Mulhouse, France

Bachelor Degree in Physics and Chemistry

Université de Haute-Alsace

