



LINA MELAZ

PROFIL

Doctoral researcher in physical chemistry with a strong focus on sustainable processes for industrial decarbonization. my PhD investigates the stability mechanisms of water-in-water Pickering emulsions for catalytic applications. The goal is to develop innovative continuous biphasic liquid/liquid catalytic processes, suitable for enzymatic reactions and sugar chemistry.

CONTACT



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Le Port-Marly 78560 - France

Permis B / Algerian

TECHNICAL SKILLS

- Reading, Plotting, and Interpreting Phase Diagrams
- Formulation and characterization of Water-in-Water Pickering Emulsions
- characterization of solide particles, such as silica and clay particles
- instruments: Turbiscan AGS, Optical Microscope with Fluorescence, Karl Fischer Titrator, DHR3 Rheometer, Densimeter, Viscometer, Refractometer, Laser Granulometer, Tensiometer, and Zetasizer

LANGUAGES

- English: Full Professional Proficiency
- French: Full Professional Proficiency
- Kabyle / Arabic: Native / Bilingual

PERSONAL INTERESETS

- Dance: Salsa, Bachata, oriental
- Gym
- Reading
- Travelling (Esperanto Compiègne)

WORK EXPERIENCE

PhD Researcher - IFP Energies nouvelles (IFPEN)

Reuil-Malmaison / Nov 2023 - Present

Thesis title: Comprehension of the stability mechanisms of water-in-water Pickering emulsions for catalytic applications

- Presented a poster on preliminary results at the Graduate Research Seminar (GRS) and the IPCG (International Polymer Colloid Group) Conference in Sète, France (July 2025).

Engineering Apprentice - IFP Energies nouvelles (IFPEN)

Reuil-Malmaison / Aug 2022 - Sep 2023

Bibliographic and experimental study of Pickering water-in-water emulsions and factors influencing their stability.

M1 internship - University of Technology of Compiègne

Compiègne / Jan 2022 - Feb 2022

Study of the stabilizing effect of an adjuvant applied to the solubilization of model molecules (dyes).

Internship - CPC Conserverie

Algiers / Jun 2021

Quality Control and Production Intern. Oversaw product inspection, compliance with quality standards, and production process optimization.

FORMATIONS

Master's Degree in Chemistry - Formulated Products

Engineering Sep 2021 / Sep 2023

University of Technology of Compiègne (UTC)

University of Picardie Jules Verne (UPJV) - Amiens

Master's Degree in Food Development and Quality Sep 2020 /

Jul 2021 - Higher National School of Agronomy -Algiers

State Engineer – Food Industry Technology Sep 2018 / Jul 2021

Higher National School of Agronomy -Algiers

Project on optimizing processed cheese formulation using Response Surface Methodology (RSM)