

Emilie MIROIR



Lyon, France



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Emilie Miroir



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Driving license and a vehicle



31/01/2000

MY PROFILE

PhD student at the laboratory of Catalysis, Polymerization, Processes and Materials (CP2M)

Extensive knowledge of materials chemistry and macromolecular synthesis

- Autonomous
- Proactive
- Curious and rigorous

SOFTWARE

- Origin
- Chemdraw
- Inkscape
- Python/ Matlab (basis)
- Microsoft Office pack
- Google tools

LANGUAGES

- French (native)
- English (C1 in CAE)
- Italian (B2)

HOBBIES

- Classical and contemporary dance (regional and international competitions)
- Reading
- Cooking

EDUCATION

Universite Claude Bernard Lyon 1

Lyon, FRANCE | 2023 -2024

Materials and Sustainable Development Master (MSD)

Ecoconception, conception and selection of materials and processes, viscoelasticity of polymers, structural and chemical characterisation, biomaterials, micro and nanostructuration of polymers

ESCPE Lyon

Lyon, FRANCE | 2020 - 2024

Admission through a competitive exam

Organic and inorganic chemistry, analytical sciences and processes

Options: advanced organic chemistry and stereoselectivity, formulation and macromolecular synthesis

Specialization in materials chemistry

Preparatory Class for the Grandes Écoles

Marseille, FRANCE | 2018 - 2020

PCSI (Physics, Chemistry and Engineering Sciences) PC (Physics Chemistry), Lycée Thiers

PROFESSIONAL EXPERIENCE

PhD at CP2M Laboratory

Lyon, FRANCE | October 2025 till now

Polymerization-induced self-assembly (PISA) for the design of functionalized polymer particles. Application to continuous-flow micellar catalysis

RAFT solution and emulsion polymerization, amphiphilic block copolymer synthesis by PISA, hydrogenation of styrene

Responsible of a SEC and training of students

Master's Thesis Project at CP2M Laboratory

Lyon, FRANCE | February 2024- August 2024 (6 months)

Structural analysis of PVC resins within a national PVC recycling project, using techniques such as DSC, SEC, IR, intrinsic viscosity measurements and NMR

Interhship at R&D TRINSEO DEUTSCHLAND

Rheinmunster, GERMANY | September 2022- August 2023 (12 months)

Emulsion polymerization, development of new formulations and optimization of existing recipes, synthesis on reactors (automatic and manual), characterization and scale-up of new latexes at the plant

Analysis: DSC, SEC, surface tension, viscosity, solids content, pH, SEM, acid titration, swelling test

Internship at ARKEMA

Marseille (Saint-Menet), FRANCE | August 2021 (1 month)

QUALIFICATIONS

ESCPE engineer degree in chemistry and process engineering

Lyon, FRANCE | 2024

Cambridge Assessment English (CAE)

Lyon, FRANCE | 12/2023

C1 level

Bachelor degree

Lyon, FRANCE | 2020

Organic chemistry, analytical sciences and process engineering

French Baccalauréat

Aubagne, FRANCE | 2018

Scientific (physics-chemistry speciality) | european Italian section | with highest honors| Lycée Joliot Curie

ASSOCIATIVE EXPERIENCE

Graduate research seminar (GRS) prior to the International Polymer Colloids Group (IPCG)

Sète, FRANCE | 2025 | committee member

Organization of a 2 days seminar for PhD students working in polymer colloids prior to the IPCG

Schedule organization, social activities, lecturer management and budgeting, communication

Careers day, CPE Lyon

Lyon, FRANCE | 2023

Communication, budget management, team work