



ADAM ABOU-DAHR

PHD STUDENT
SPECIALIZED IN POLYMER
CHEMISTRY,
PHOTOPOLYMERIZATION,
RECYCLING PROCESSES
AND ECO-CONCEPTION

PROFILE

Graduated from the European school of Chemistry, Polymer, Materials (ECPM) in 2022 as a chemical engineer specialized in polymers.

I had several experiences in the polymer industry on various topics: Recyclability of composites, eco-conception with vitrimers, plastic processing. I have decided to deepen my knowledge in chemistry by doing a PhD in polymer chemistry. A PhD focused on synthesis of latexes by photopolymerization emulsion.

SKILLS

- Polymer chemistry
- Emulsion and photoinitiation
- Writing of scientific reports
- Project Management
- Knowledge of composite materials
- Knowledge of recycling processes
- Knowledge of LCA
- Managerial skills
- Autonomous and proactive
- Excellent communication skills in French and English

LANGUAGES

- French: Mother tongue
- English: C1 TOEIC (960/990)
- Spanish : B1

CONTACT INFORMATION

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EMPLOYMENT HISTORY

Regional Product Technical Specialist Zytel® for EMEA

DuPont - Celanese | Oct 2022 - Sept 2023

- Data generation and critical view on rheological (VN, MV,...), microscopy (SEM, TEM), X-ray (SAXS, Tomography), spectroscopy (FTIR, UV), calorimetry (DSC, TGA) and mechanical analysis (tensile, fatigue, DMA).
- Supporting new project opportunities via data generation (Technical data sheets, injection data sheets, data packages, etc) and technical support to R&D, sales and application development teams in EMEA

R&D intern- Recycling of ballistic products

DuPont | Feb 2022 - Aug 2022

- Recycling of composites made of Kevlar and thermoplastic or thermoset resins.
- Setting up the value chain.
- Contact with industrialists to set up recycling processes on an industrial scale.
- Solvolysis / Pyrolysis / Mechanical recycling
- Market study.

R&D Sustainable Chemistry Intern

Teijin Aramid | Sept 2020 - May 2021

- Elaboration of paper and fabric composite for an application in the aeronautical field.
- Comparison of new recyclable resins (vitrimers) with a thermoset used in industry.
- Development of a recycling process for paper composites

Project Leader - Partnership BASF - ECPM

BASF | Sep 2019 - Apr 2020

- Find gentle optimal conditions for chemical recycling of nylon from carpets based on green chemistry.
- Lead a group of 6 students. Distribute tasks, organize the team and communicate with the company

EDUCATION

PhD in Polymer Chemistry - Synthesis of latexes by photopolymerization emulsion

University of Lyon 1 in partnership with Arkema |
2023 - 2026

- Photoinitiate a polymerization reaction in mild conditions
- Synthesize latexes without surfactant

Engineer Diploma & Master's degree of chemistry, major in polymers

University of Strasbourg, ECPM | 2018 - 2022

- General knowledge in inorganic chemistry, analytical chemistry and organic chemistry.
- Formulation and characterization of polymers, rheology, biopolymers, process engineering.
- one to two weeks of lab work per month for 2 years. (organic chemistry, polymer chemistry, analytical chemistry, material chemistry)
- Member, Engineer without borders

Integrative Preparatory Class

University of Lille, ENSCL | 2016 - 2018

- General knowledge in Chemistry, Mathematics and physics.
- Physic and chemistry lab work 4 hours per week
- Vice President, Student Council