

Joana Martins

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Education

IFP Energies Nouvelles - Lyon 1 Université Claude Bernard

Doctoral Thesis

2025 – Present

Porous inorganic microreactors for homogeneous two-phase catalysis: a mass transfer study for their implementation in fluidized beds.

Instituto Superior Técnico - U. Lisboa

Master's Degree in Chemical Engineering

2023 – 2025

- Focused on advanced process engineering, reaction systems, and industrial applications.

Final Project: Design of a PET Depolymerization plant.

Master Thesis: Porous inorganic microreactors for homogeneous two-phase catalysis: synthesis, characterization and catalytic tests.

Faculty of Sciences - U. Lisboa

Bachelor's Degree in Biochemistry

2020 – 2023

- Solid multidisciplinary training in Life Sciences with strong lab focus.
- Covered core areas of Biochemistry, Chemistry, Biology, and Bioinformatics. Gained skills in R&D project execution and biochemical analysis, with specialization options in fields like Immunology, Enzymology, and Proteomics and Metabolomics in Biomedicine.

Third-year Project: Analysis of Negative Feedback in the NF- κ B Signaling Pathway: The Role of I κ B α

Experience

Intern - IFP Energies nouvelles

02/2025 - 07/2025

Porous inorganic microreactors for homogeneous two-phase catalysis: synthesis, characterization and catalytic tests.

Volunteer - Centro social e Paroquial, Campo Grande

02/2023 - 05/2023

Delivery of meals through the home support service, promoting the quality of life for senior citizens; as well as accompanying users of the day center.

Workshop Nonverbal Language in Persuasion - *Speak and Lead*

05/2022

Languages

- Portuguese - native
- English - C1
- Spanish - B1

Interests

Cinema, Photography,
Baking, Reading

Skills

Laboratory work (Sol-gel Synthesis, Pickering Emulsions, Western Blotting, PCR, SDS-PAGE)

Characterization techniques (Nitrogen Physisorption, Optical Microscopy, Confocal Microscopy, X-ray diffraction, Mass Spectrometry, FTIR, HPLC)

Computer skills (Microsoft Packages, Python, R Studio, Aspen Plus, GAMS)

Soft Skills (Communication, Problem solving, Teamwork Mindset)