

Catarina Paschoalini Lehman

EDUCATION

UNIVERSITY OF STRASBOURG - ED182

2024 - present, PhD | Strasbourg, France

1st year PhD student on a CIFRE agreement between the Institut de Chimie et Procédés pour l'Energie, l'Environnement et la Santé (ICPEES) and Michelin. Production of electrospun membranes for hydrogen fuel cells applications.

FEDERAL UNIVERSITY OF MINAS GERAIS

2018 - 2023, Metallurgical Engineering | Belo Horizonte, Brazil

Metallurgical Engineering student with a complementary education in Materials Engineering.

EXCHANGE AT ÉCOLE NATIONALE SUPÉRIEURE DE CHIMIE DE LILLE - CENTRALE LILLE

2022 - 2023, Chemical Engineering | Lille, France

Student in 3rd year (Bac + 5) of the Engineering Cycle - Focus on Materials Optimization and Reliability as part of the BRAFITEC Program.

PROFESSIONAL EXPERIENCES

RESEARCH PROJECT

12/2019 - 08/2022, Laboratório de Engenharia de Polímeros e Compósitos (LEPCom|UFMG)
Surfaces modified by hydrogels for agricultural applications. Project supported by CNPq, Brazil.

CROSS-DISCIPLINARY PROJECT

12/2022 - 02/2023, Unité Matériaux et Transformations (UMET|ENSCL) and ArcelorMittal
Evaluation of the effects of deformation on the microstructure of Q&P1180 steels by advanced analysis and characterization.

FINAL YEAR INTERNSHIP

03/2023 - 07/2023, Institut de Chimie et Procédés pour l'Energie, l'Environnement et la Santé (ICPEES) and ARKEMA
PVDF electrospinning; green solvents and scale-up.

COMMUNICATION

CONFERENCE

10/2021, 16th Brazilian Polymer Conference (CBPol)

Lehman, C.P., Souza, S.O.L., Oliveira, S.M., Silva, L.M., Oréfice, R.L. Incorporation of electrospun nanofiber mats to improve mechanical properties of hydrogels based on methacryloyl gelatin. In: 16° Congresso Brasileiro de Polímeros, 2021, Ouro Preto.

PUBLICATION

Souza, S. O. L., Oliveira, S. M., Lehman, C. P., Silva, M. C., Silva, L. M., & Oréfice, R. L. (2023). Tuning the structure and properties of cell-embedded gelatin hydrogels for tumor organoids. *Polímeros: Ciência e Tecnologia*, 33(2), e20230014. <https://doi.org/10.1590/0104-1428.20220024>



CONTACT

Brazilian, 25 years old
(14/09/1999)



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SKILLS

LANGUAGE

Portuguese: mother tongue
French: Intermediate - B1 (DELF)
English: Intermediate - B2 (FCE)

COMPUTER

Pack Office: Intermediate
Origin: Elementary
ImageJ: Elementary

TECHNIQUES

Electrospinning
SEM
FTIR
Contact angle
Surface tension
Mechanical testing
3D printer