



SEEKING A RESEARCH SCIENTIST JOB

FRENCH CHEMIST ENGINEER IN MATERIALS CHEMISTRY AND PHD CANDIDATE IN POLYMER'S MATERIALS

FLORIAN MARTI

CONTACT INFORMATION

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LANGUAGES

- French : mother tongue
- Anglais : TOEIC (2022) 925 points , B2 level
- Spanish : begginer
- German : begginer
- Polish : begginer

PERSONAL EXPERIENCES

Vice président of "Bureau des arts" of ECPM

MAY 2021- MAY 2022

- Scheduling social events on cultural topics for students : barathon, trip to amusement park ...

Member of the association "Ingénieur Sans Frontières"

MAY 2021- MAY 2022

- Helping high school teenager with scholar difficulties at the Sophie Germain high school in Strasbourg.

PERSONAL INTERESTS



- Baseball (supporting the Blue Jays of Toronto)
- Theater
- Fencing
- Chess and board games
- Charity (member of the association "Ingénieur Sans Frontières")

STUDIES



- **2023-2026 : PHD candidate in polymers' chemistry**
CP2M & Arkema



- 2022-2023 : **Master's degree in nanomaterials' chemistry and materials' characterizations techniques.**
Sherbrooke's University



- 2020-2023 : **Chemical engineer specialized in polymers' Engineering.**
Université de Strasbourg



- 2018-2020 : **Undergraduate degree in chemistry.**
Université Paris Saclay

PROFESSIONAL EXPERIENCES



CP2M public laboratory in collaboration with Arkema, PHD thesis

OCTOBER 2023 - OCTOBER 2026

- Design of new architectural macromolecules for the synthesis of polymers SPE used in the production of Lithium-ion batteries.
- Synthesis and characterization of polyelectrolytes (GPC, RMN, DSC, DMA, DRX) at the CP2M laboratory, and formulation and characterization of Lithium-batteries at Arkema's production site in Pierre-Bénite. (France)



Université de Sherbrooke, R&D internship

JANUARY 2023- AUGUST 2023

- Synthesis of new hybrid solid poly-electrolytes (SPE) used in the production of lithium-ions batteries. Depositing a **patent** about our discoveries on this competitive field.
- Production of the lithium-ion solide state battery. Characterization of the polyelectrolytes (GPC, NMR H¹ and C¹³ IG, DSC, DMA, XRD) and the battery (SEM, Cyclic/pulsed voltametry)



Resicare (Michelin's affiliate), R&D intership

APRIL 2022- AUGUST 2022

- Studying adhesives decays by ozone for adhesives used in the production of tires.
- Elaborating protocols and in charge of subcontracting tests for my samples in extern laboratories.
- Experiencing decaying tests on adhesives applicated between different rubber layers. Characterization of the decay by multiple analysis (IRTF, tensile strenght test, MEB-EDX, contact angle).



Institut Charles Sadron, R&D internship

JANUARY 2022- FEBRUARY 2022

- Synthesis and surface modification of polymers microfibers by MST (Microfluidic Spinning Technic).



SKILLS

- Polymers' synthesis in suspension, emulsion (RAFT-PISA) and mass
- Characterization technics of mecanicals properties of polymers : Charpy's test, Tensile strength test, durometry, rheometers
- Processing of polymers : Extrusion, injection
- XRD, DSC, TGA, DMA, XPS, SEM-EDX, TEM, AFM, and contact angle analysis
- GC, HPLC, HPIC, GPC chromatography
- Electrochemicals' characterization technics : Cyclic and Pulse voltammetry , chronoamperometry, EIS
- IRTF spectroscopy, UV, Raman, RMN, Mass spectrometer (SIMS-TOF, IE)