



CORENTIN ARCHIMBAUD

Solid background in green organic chemistry and polymer science, with a PhD focus on the kinetics and optimization of chemical recycling processes. Experienced in polymer degradation and advanced characterization techniques. Eager to contribute to cutting-edge research in green polymer synthesis and circular economy solutions.

PERSONAL DETAILS

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Oullins, 69600 🏠

Driver license & personal vehicle 🚗

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LANGUAGES

French (Native)

English (TOEIC 930 points)

German (B2 level)

ASSOCIATIONS

President IFPEN PhD students' association (IFPEN, 2025)

Co-Treasurer of the student council of ESCOM (ESCOM, 2021-2022)

Co-President of the "Bureau du carbon", chemistry association to vulgarize science (ESCOM, 2020-2022)

HOBBIES

Music: Guitar, violin (beginner)

Sports: Sailing, golf, climbing

PAPERS

ACS Sustainable Chem. Eng. 2025, 13
2nd author
doi: 10.1021/acssuschemeng.5c02120

ChemSusChem 2024, 17
4th author
doi: 10.1002/cssc.202301828

REFERENCES

Dr. Damien HUDEBINE
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Dr. Adrien MEKKI-BERRADA
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Dr. Sami FADLALLAH
sami.fadlallah@agroparistech.fr
Dr. Florent ALLAIS
florent.allais@agroparistech.fr

WORK EXPERIENCE

PhD at IFPEN (Solaize, France, 3 years)

Study of the catalytic activity of the inherited species in the chemical recycling process of polyester (PET)

Master Internship at URD ABI (Reims, France, 6 months)

Synthesis and polymerization of functional monomers from LGO derivatives

Internship at U-Hasselt (Hasselt, Belgium, 4 months)

Synthesis and characterisation of novel Hybrid Organic-Inorganic Perovskites materials (HOIP)

EDUCATION AND FORMATION

PhD on the activity of inherited species in the PET waste to build a predictive kinetic model

IFPEN, 2023-2026

Master's in Sustainable Organic Chemistry

UPJV, 2022-2023

Engineering school specialized in chemistry

ESCOM, 2018-2022

TECHNICAL & PROFESSIONAL SKILLS

Organic synthesis and subsequent steps

Organic molecules for inorganic materials (HOIP)
Monomer synthesis via LGO-derived platform molecules
Polymer synthesis (CROP, ADMET, enzymatic, polycondensation)
Air-sensitive & advanced techniques for polymerization
Characterisation & purification (RMN, TGA, DSC, IR, LC-UV, XAFS, HRMS)

Data treatment and scientific methods

Design of Experiment for kinetic data acquisition and synthesis optimization
Kinetic modeling of polymer chemical recycling and catalyst oxidation
Advanced structure elucidation of organic molecules and metallic complexes
Assistance in master intern mentoring and supervision
Cross-functionnal collaboration between pluri-disciplinar departement

COMMUNICATIONS

3rd Bordeaux Polymer Conference (Oral, Bordeaux)

16th European Congress on Catalysis (Poster, Trondheim)

18th International Congress on Catalysis (Poster, Lyon)