Inéam Ouarag (She/her)

Chemistry PhD Student at IFP Energies Nouvelles • Solaize, France • ineam.ouarag@gmail.com

Education

IFP School — Rueil-Malmaison, France
Specialized Engineering Graduate Degree: Energy and Processes — 2024-2025

Ecole Polytechnique — Palaiseau, France
Engineering Degree in Chemistry — 2021-2024

Classe préparatoire PC/PC* — Paris, France
Lycée Janson de Sailly and Lycée Pasteur — 2019-2021

Experience

IFP Energies Nouvelles, Supervisor: Alain Méthivier — Solaize, France
Chemistry PhD Student — started in December, 2025

- Investigating the adsorption of perfluoroalkyl substances (PFAS) within the porosity of fluorinated silica-based materials
- Elaborating new adsorbent materials
- Assessing the quantification method of PFAS to monitor water treatment performance

Technip Energies — Nanterre, France
Process Engineer Apprentice — 2024-2025

- Delivered equipment specification and process simulation for an ethane cracker project in Nigeria

Milliron Group, UT Austin — Austin, Texas
Research Intern — April 2024 – August 2024

- Synthesized and characterized thin films of electrochromic nanocrystals for smart window applications
- Engineered and assessed performances of a full electrochromic device

Saint-Gobain, Abrasiv plant — Conflans-Saint-Honorine, France
Intern — June 2023 - August 2023

- Developed resin formulation for abrasive product
- Studied the feasibility of the formulas at an industrial scale

Skills

Technical: Fluent in Python, Intermediate in Aspen HYSYS and ProII
Language: Native in French, fluent in English, intermediate in German and Italian
Laboratory: Skilled in FT-IR and UV-visible spectroscopy, NMR and TEM/SEM microscopy

Scientific contribution

- Zhang, W., Tafoya, R., Ouarag, I., Hsu, C.-H., Zhang, Z., Milliron, D.J., 2026. Composite Anodes with Dual-Stage Charging for Efficient Dual-Band Electrochromic Devices. ACS Energy Lett. 11, 3818–3825.