

Alina JAISON GEORGE

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Education

09/2022 – present
Lausanne, Switzerland

MSc Chemical Engineering and Biotechnology
École polytechnique fédérale de Lausanne, EPFL

09/2019 – 06/2022
Bremen, Germany

BSc Chemistry
Jacobs University Bremen
Minor: Biochemistry and Cell Biology

Work Experience

02/2024 – present
Sion, Switzerland

Semester Project at Industrial Process and Energy Systems Engineering (IPESE)
EPFL

Modeling and optimization of Vacuum Pressure Swing Adsorption (VPSA) based medical oxygen concentrator device.

Skills: Aspen Adsorption V14, MATLAB, Python

10/2023 – 01/2024
Sion, Switzerland

Student Research Assistant at Laboratory of Functional Materials (LFIM)
EPFL

Synthesis, characterization, and scale-up of water adsorption materials for production of off-grid mobile refrigerator.

Skills: H-NMR, TGA, FTIR, Adsorption isotherm, PXRD, BET

07/2023 – 08/2023
Kochi, India

Quality Control Intern
Synthite Industries Pvt. Ltd.

- Analysis of spice samples from manufacturing plants.
- Pesticide residue analysis and preparation of standards.

Skills: UV/Vis spectrophotometry, HPLC, GC

09/2020 – 06/2022
Bremen, Germany

Undergraduate Research assistant
Prof. U. Kortz research group (Polyoxometalate Lab)

Assisted Ph.D. and Post-doctoral candidates with their research experiments. Projects involved in:

- Synthesis of novel cationic palladium metal-oxo clusters.
- Synthesis and characterization of Lanthanide-centered-polyoxopalladate-Metal Organic Framework (Ln-POP-MOF).

Skills: FTIR, SC-XRD, TGA

Technical Skills

Aspen Plus V14

MATLAB

Python

OriginPro

Aspen Adsorption V11

Microsoft office

Language

English
PROFESSIONAL (C2)

German
INTERMEDIATE (B2)

French
ELEMENTARY (A1)