



CARLOS RUFINO JUAREZ DE LEON

GEOCHEMICAL RESEARCH SCIENTIST

CONTACT

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EDUCATION

- 2022 - 2024
SORBONNE UNIVERSITÉ
 - Diplôme Universitaire
- 2014 - 2016
UNIVERSITY OF BRITISH COLUMBIA
 - Master of Engineering
(Geological Engineering)
- 2007 - 2012
UNAM - FACULTY OF ENGINEERING
 - Bachelor of Engineering
(Geological Engineering)

SKILLS

- Geochemical Analysis (PHREEQCi, Rock-Eval, Picarro)
- 3D Geological Modelling (Petrel)
- Field Research (Gas, soil, and water samples)
- Data Analysis (Python, QGIS, Surfer)
- Critical Thinking (Analytical problem-solving)
- Teamwork

LANGUAGES

- English (Fluent)
- French (Fluent)
- German (Basics)
- Spanish (Native)

PROFILE

Experienced Environmental Geochemist with a strong background in hydrogeology and geological engineering. Adept at geochemical analysis using advanced tools such as PHREEQCi and Rock-Eval. Proven expertise in conducting field research, analyzing complex data, and developing 3D geological models. Capable in managing research projects and interpreting results to drive innovative solutions. Fluent in English, Spanish, and proficient in French, with strong critical thinking and analytical skills. Passionate about advancing the understanding and applications of geochemical processes.

WORK EXPERIENCE

- IFP Energies Nouvelles** 2022 - PRÉSENT
Researcher
 - Conducted advanced research on permafrost soils, utilizing Rock-Eval, Flair Box, and Picarro instruments to analyze soil and gas samples.
 - Analyzed data and interpreted results to understand the impact of permafrost thaw and the exchanges mechanisms between soils and the atmosphere.
 - Gained valuable experience in project management, experimental design, and scientific communication.
- Mexican Petroleum Institute** 2016 - 2022
Researcher
 - Developed multiple geochemical simulations to analyze the water/rock interactions, for understanding the subsurface geochemical processes.
 - Performed data analysis and conducted detailed geological characterizations.
 - Collaborated with multidisciplinary teams to integrate geochemical, geological, and reservoir engineering data, leading to more effective project outcomes.
- UNAM - Hydrogeology Group** 2012 - 2014
Hydrogeologist Intern and Professor Assistant
 - Collected and analyzed water samples for groundwater quality and contamination assessment.
 - Developed vulnerability maps using the DRASTIC methodology for groundwater strategies.
 - Collaborated with senior researchers to integrate field data into hydrogeologic models.
 - Assisted in the preparation and delivery of hydrogeology sessions to undergraduate students.