

Yara Layssi Stouhi

Beirut, Lebanon | +961 76817667 | yarastouhi@gmail.com | Linkedin : [Yara Layssi Stouhi](#)

EDUCATION

Lebanese American University (LAU) - Byblos, Lebanon

BE in Petroleum Engineering

Sep. 2020 – May 2025

Lycée Abdel Kader - Beirut, Lebanon

Scientific French Baccalaureate – Specialization in Physics and Chemistry

Sep. 2005 – June 2020

EXPERIENCE

Intern at UniGaz - Beirut, Lebanon

Sep. 2025 – Current

- Rotation within the QHSE department, gaining knowledge of safety standards applied to gas terminals as well as quality and safety control of gas installations, complemented by site visits.
- Experience within the Installations department, learning the design of gas facilities (filling stations, residential installations, and restaurants), also accompanied by site visits.

Intern at UNITERMINALS S.A.L - Beirut, Lebanon

June 2024 – Aug. 2024

- Learning about the import and storage of refined petroleum products
- Visiting a vessel on the Lebanese shore and learning about the unloading process
- Presenting a project on implementing a ‘boom’ system to increase the safety of the unloading process

Research Student: Renewable Energy Hub

Jan. 2024 – Dec 2024

- Researching CO₂ methanation and carbon capture utilization and storage (CCUS) to develop decarbonization strategies aimed at achieving net-zero emissions.
- Exploring solutions for transforming CO₂ into synthetic natural gas, contributing to the advancement of green gases and sustainable energy systems with a specific focus on implementing these technologies in Lebanon to address electricity challenges and support the country's energy transition.
- Working on reactor design and configuration to increase the efficiency of the CO₂ methanation process.

PROJECTS

CO₂ – Enhanced Gas Recovery in Marcellus Shale

- Simulating CO₂-assisted enhanced gas recovery on a real shale field with the MATLAB Reservoir Simulation Toolbox (MRST)
- Calibrating rock-fluid properties to match history and demonstrating higher ultimate recovery while permanently storing the injected CO₂, achieving a dual energy and environmental benefit

Reduction of Greenhouse Gas Emissions Through Carbon Capture and Storage

- Modeling different reactor configurations to optimize CO₂ conversion via methanation
- Improving CCUS process efficiency by minimizing energy input while maximizing methane yield

SKILLS

Computer skills: MS Word, Excel, PowerPoint, Prosper – Petroleum Experts¹, MATLAB², SOLIDWORKS³, AspenPlus⁴, C++, Polymath

1. Inflow and Outflow Modelling, Reservoir Simulation for Optimization, Nodal Analysis
2. Sensitivity Analysis on Oil and Gas Projects, Oil and Gas reservoir simulation for Enhanced Gas Recovery Project (MRST)
3. 3D Modeling of Petroleum Equipment
4. Modeling and Simulating a CO₂ methanation process

Languages: Fluent in English, French and Arabic

EXTRACURRICULAR ACTIVITIES

2024 LAU Innovation Spark Competition

Mar. 2024 – July 2024

Vice President of the Society of Petroleum Engineers - LAU Chapter

Sep. 2024 – June 2025

Member of the Student Council at the Lycée Abdel Kader

Sep. 2020 – June 2020

Table Tennis Lebanese National Team