FARNAM FIROUZBEHI

Reservoir Engineer

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Rome, Italy

Work Experiences

Research Associate
08/2023 - present

University of Rome Sapienza

- Discrete Fracture Network (DFN) Modeling of an Italian geothermal site using dfnWorks software

Guest researcher
08/2023 - 11/2023

GEUS Denmark

- conducting Simulation based research for assessing the feasibility of combining geothermal water production with CCS as a novel method for reducing the risks associated with CO_2 storage in a Danish reservoir using Eclipse and Petrel.
- A python code was developed for facilitating the sensitivity analysis on well placement effect on pressure distribution and postprocessing the results
- A validation of effect of wettability on CO_2 dissolution was done in the field scale model using previously developed pore-scale models

Reservoir engineer
09/2019 - 5/2022

CAPE Group

- Assist in reservoir simulation and history matching of oil and gas production and water injection projects
- Member of classical reservoir engineering team, responsible for aquifer modeling and mass balance calculation of multiple reservoirs in Parsi, Maroon and Forouzan fields
- Building the well models for 32 oil wells in the North Azadegan and Parsi oil fields by importing the well schematic data in the Prosper software, match the fluid flow model and integrating models with Petrel
- Building the production data bank using Microsoft access and well, reservoir and field performance analysis and decline curve analysis using OFM software

Teaching assistant
09/2020 - 09/2021

Semnan University

- Reservoir simulation at Master's level
- Reservoir simulation with CMG software (ISTU University) at Master's level
- Fluid flow in porous medium at Master's level
- Application of programming for petroleum engineers at Bachelor's level

Reservoir and production engineering trainee
August 2017 & 2018

Iranian Offshore Oil Company (IOOC)

Education

MSc in CO_2 Geological Storage 2023 - 2023
Sapienza university

MSc in Reservoir Engineering 2019 - 2023
Semnan university

BSc in Reservoir Engineering 2015 - 2019
Garmsar university

Research and Presentations

. Conference Presentation :

1. **F. Firouzbehi**, F. Hormozi, M. Riazi, S.M. Hoseini Nasab, Pore-scale investigation of wettability effect on CO_2 dissolution in brine at different pressures, and salinities, EAGE Asia Pacific Work-shop on CO_2 Geological Storage, Perth, Australia, August 2022

• Theses :

1. Synergy in combining CCS and Geothermal water production, a simulation study/ Secondary master of CO_2 geological storage/ supervisor : Carsten M. Nielsen

2. Pore-scale simulation of CO_2-brine two-phase flow and mass transfer inside the porous medium / Master of reservoir engineering / supervisor : Dr.Faramarz Hormozi and Dr.Masoud Riazi

Technical Skills

- **Reservoir simulation (Eclipse, Petrel, CMG, OPM)**
- **Pore-scale multiphase flow modelling**
- **DFN modeling (dfnWorks)**
- **Optimization**
- **PVTi, MBAL, DCA, dfnWorks,**
- **Uncertainty Analysis**
- **Reservoir Engineering and Characterization**
- **Python**

Inter personal Skills

- **Communication**
- **Self Management**
- **Hardworking**
- **Problem-solving**
- **Adaptability**

Languages

English	**Professional**
Italian	**Intermediate**
Farsi	**Native**

Honors and Rewards

- 1st rank student in MSc of CO2 geological storage at Sapienza university
- Finalist of " Minus CO2 Challenge (2022) " of EAGE as a member of the Giant Sequoia Team
- Achieved the 3rd rank in the 4th Iranian Petroleum Engineering Olympia ("Oilympic") (2020) (Team leader)
- 1st rank student in MSc of Reservoir Engineering at Semnan University

Voluntary activities

Member of EAGE Technical Committee on Carbon Capture Storage **05/2024 - Present**

EAGE

Chairman of the board **11/2020 - 10/2022**

Student branch of Gas Engineering Association

References

Sabina Bigi Professor, Sapienza University
Sabina.Bigi@uniroma1.it

Carsten M. Nielsen Reservoir Engineer, Geological Survey of Denmark and Greenland (GEUS)
cmn@GEUS.dk