

Academic Background



Pegah Soleimani Dinani



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Research Interests

- Carbon Capture and Storage (CCS)
- Carbon Capture Technologies
- Modeling of CO₂ Storage
- Environmental Studies
- CCUS
- BECCS
- Greenhouse Gas emission
- Global Warming
- Climate change

Technical Skills

- Eclipse (E300, E100)
- Petrel
- Minitab
- Python
- Rubis (KAPPA)

2nd Level Master

2019-2020

Sapienza University – Zagreb University
Enabling Onshore CO₂ Storage in Europe (ENOS Project)

Geological Storage of Carbon Dioxide

The program covers all aspects of the geological storage of CO₂ and understanding the work of all specialists who will be involved in CCS projects such as reservoir engineers, geologists, geophysicists, geochemical modelers, etc.

Graduation Date: Nov 02, 2020

Supervisor: Prof. Anton Shchipanov NORCE (Norwegian Research Center)

Thesis: “Simulation of Fluid Flow in a Shallow Reservoir with Faults and Fractures on the base of Sulcis Fault Lab Data” (Final score 110/110)

- Simulation of CO₂ injection in Sulcis Fault lab.
- Evaluation of pressure response to fault leakage.
- Evaluation of boundary condition impact on pressure response
- Evaluation of perm-poro impact on pressure response

M.Sc.

2014-2016

Shahrood University of Technology – Mining and exploration Department

Petroleum engineering (Exploration specialization)

Graduation Date: June 21, 2016

Supervisors: Prof. B. Tokhmechi & Prof. S. A. Moallemi

Thesis: “Ranking of Anticlines in order to storage of Carbon Dioxide (CO₂) in The West of Iran”

- Investigating CO₂ Emission Effects on Climate Change.
- Determining Suitable Candidate for Storing Carbon Dioxide (CO₂).
- Evaluating the Necessary Criteria for CO₂ Storage.
- Ranking imperative Criteria for CO₂ Storage.
- Estimation of Capacity Storage of anticlines of Iran.
- Ranking suitable storage sites for CO₂ Storage in west of Iran.

B.Sc.

2010-2014

Amirkabir University of Technology, Petroleum Engineering Department

Petroleum Engineering

Graduation Date: September 21, 2014

Supervisor: Prof. M. Ghavidel.

Thesis: “Investigating palynomorphs compounds based on their components”.

Bahar Elmamouzan

Mathematics and physical Science, GPA:19.97/20

Language Skills

- Persian (Native)
- English (Fluent)
- German (Good)

Soft Skills

- Punctuality
- Timekeeping
- Well-organized
- Self-motivated
- Team-minded

Certificates

- Training Certificates of “HSE Management Systems” from TÜV Academy Rheinland, 16 hours, November 2011.
- Participation Certificates of “Geophysics” from Amirkabir university of Technology, October 2013.

Internship

- Internship in Research Institute of petroleum industry, NIOC, Tehran, Iran, summer 2013.

Honor and Awards

Ranked 1st	2016
Among 10 students in petroleum engineering in M.Sc.	
Ranked 1st	2015
Among students in Geochemistry course in M.Sc.	
Ranked 1st	2015
Among students in Petrophysics course in M.Sc.	
Selected as a player	2017
Basketball player in international student’s tournament in Belgium	

Work Experience

Business Development specialist	October 2019 – Jan 2020
Abdal industrial project management Co (MAPSA)	
Project Planning Manager	Feb 2019 – August 2019
Texoped Parsian Kish (PEDEM Parsian Kish Holding)	
Lab scientist	October 2016- Jan 2019
Kimia Shangarf pars (KSP)	

Publication

“**Introducing Algorithm for Depleted Reservoir Ranking in order to Underground Gas Storage**”, P. Soleimani, B. Tokhmechi, S. A. Moallemi. The Third International Conference on Oil, Gas, Refining and Petrochemical with focus Relationship between Government, university and Industry, Tehran, Iran, 2016.

“**Introducing Scientific Approach to Identify suitable Anticlines in order to Carbon Dioxide (CO2) Storage**”, p. Soleimani, B. Tokhmechi, S. A. Moallemi, The Third International Conference on Oil, Gas, Refining and Petrochemical with focus Relationship between Government, university and Industry, Tehran, Iran, 2016.

Selected project and academic works

Evaluation of gas Saturation (based on modeling) to understand whether the site is secure for storing CO₂ or not
part of ENOS Project 2020

Evaluating shale gas in Sichuan Basin, Geochemistry
Shahrood University of Technology Fall 2015

Mechanical Design of Separator
Surface Facility, Amirkabir University of Technology Spring 2014

Eclipse Project
Reservoir Simulation, Amirkabir University of Technology Fall 2013

EOR in Fractured Reservoir by Using Nanotechnology

Fractured Reservoir course, AUT Spring 2013

Petrel Project

Amirkabir University of Technology Fall 2011

Microbial Enhanced Oil Recovery's Applications

Reservoir Rock Properties, Amirkabir University of Technology 2011

References

Prof. B. Tokhmechi, Associate Professor, University of Tehran

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Prof. S. A. Moallemi, Assistant Professor, Enhanced Oil Recovery Institute of National Iranian Oil Company

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