

---

**Personal**

---

- E-mails: sajadimousa@gmail.com
- Cell Phone: +989129339688
- Military service status: Iran, finished at army military police
- Linkedin: [Seyed Mousa Sajadi](#)
- Github: [YasharSajadi](#)
- Youtube: [YasharSajadi](#)
- Website: [YasharSajadi](#)

---

**Highlight of Skills**

---

- +9 years of experience in fast-paced, client- and quality-focused atmosphere in programming.
- Designing and solving simulation in porous media.
- Creating model and simulation physical phenomena as numerical and analytical solution.
- Implementing image processing and analyzing multi-dimension images.
- Programming and optimization problems with artificial intelligence, machine learning, and system control.

---

**Education**

---

**M.Sc. Petroleum Engineering – Hydrocarbon Reservoir**

Islamic Azad University, Science and Research Branch, Department of Petroleum Engineering (Sep 2016 – Sep 2020) |

**GPA:** [17.45](#) out of 20

**Thesis Title:** Surfactant injection simulation in porous medium and investigation on surfactant concentration in residual oil remained in isolated pores

**Supervisor:** Dr. Saeid Jamshidi (Associate Professor)

**B.Sc. Petroleum Engineering – Exploration Engineering**

Islamic Azad University, Science and Research Branch, Department of Petroleum Engineering (Sep 2013 – Sep 2016) |

**GPA:** [16.17](#) out of 20

**Supervisor:** Dr. Seyed Mohsen Aleali (Assistant Professor)

---

**Publications**

---

- 1- Shafiabadi, M., Kamkar-Rouhani, A. & **Sajadi, S.M.**, Identification of the fractures of carbonate reservoirs and determination of their dips from FMI image logs using Hough transform algorithm. *Oil Gas Sci. Technol. – Rev. IFP Energies Nouvelles*, 76 (2021) 37. ([here](#))
- 2- **Sajadi, S.M.**, Jamshidi, S. & Kamalipoor, M. Simulation of two-phase flow by injecting water and surfactant into porous media containing oil and investigation of trapped oil areas. *J Petrol Explor Prod Technol* 11, 1353–1362 (2021). ([here](#))
- 3- Sanei M., Shafiabadi M., Hekmatnejad A. & **Sajadi S.M.**, Presentation of representative shape parameters of porous media based on mathematical computation on images. (Submission in Acta Geotechnica)
- 4- New software to determine the characteristics of a shape and create a 2D random porous media using similar shapes (RPMG2D-software). (In Progress)
- 5- A new software to determine complex fractures in FMI logs using Radon and Hough transform to detection and using graph theory to determine their complexity relationship. (In Progress)

---

## Technical and Software Skills

---

<b>Computer skills &amp; software:</b>	MSOffice (+VB and Macros), GWA (Sheets, Docs, Sliders, Forms). OS Command: Batch, Bash, PS. IDE: Visual Studio Code (VSCode).
<b>Engineering software:</b>	<b>Monster:</b> Eclipse (Schlumberger), COMSOL Multiphysics. <b>Familiar:</b> Petrel & Techlog (Schlumberger), CMG (Computer Modelling Group), F.A.S.T. (Fekete), Ecrin (Saphir, Topaze, Diamant), Emeraude, PDSView, Geolog(Paradigm), PanSystem, ArcGIS, Surfer.
<b>Programming language:</b>	<b>Monster:</b> MATLAB, GNU Octave, Python, JavaScript, Batch, Bash, Powershell, Maple. <b>Understanding syntax:</b> C#, Ruby, C++, C-Object, Java, Kotlin, Scala, Rust, Solidity, Dart and Flutter.
<b>Other extension files:</b>	Interactive Python Notebook (.ipynb), .dxf, .json, .bin, .raw, .exe, Pine Script.
<b>3D software:</b>	Rhinoceros (+Grasshopper), ParaView.

---

## Programming Experience & Software

---

- Implementation of [shape analysis](#) algorithms ([RPMG2D](#)).
- [Couple Eclipse](#) software with other programming languages.
- Creating software with [Python](#) ([KuCoin-API-Machine](#)).
- Some tricks in working with [Python](#).
- Importing 2D and 3D models in [COMSOL](#).
- Creating a Python package(pip) to transfer data and programs without special access ([Rentry-Lab](#)).
- Building software based on GNU Octave to separate grains in images ([Grain-Selector](#)).
- Create software to analyze shapes and create random porous media ([RPMG2D](#)).

---

## Relevant Work Experience

---

### Developer Engineer

- **R&D AcidPro®**(MAPSA, Tehran, Iran | July 2023 – Present)
- **R&D PoreStudio®**(Tehran, Iran | June 2021 – June 2022)
- **Chairman of the Board in Irsa Modern Espad Co.** (Tehran, Iran | Nov 2017 – April 2021)
- **Pipe Line Supervisor in Exir Novin Farayand Asia Co.** (Tehran, Iran | Aug 2013 – Mar 2014)

### Training

- Training MATLAB Course in [Youtube](#) (40 hours | Dec 2022)
- Training [MATLAB](#) Course in [DabirBartar](#) (30 hours | July 2019)
- Training [MATLAB](#) Course in [Irsa Modern Espad Co.](#) (30 hours | Nov 2018)

---

## Workshops & Courses

---

- Certification of OOPs in [Python](#) online course (2023)
- Certification of Projects in [JavaScript](#) online course (2023)
- Certification of Onramp [MATLAB](#) online course (2018)

- 
- Certification Simulation of Hydrocarbon Reservoir in [Eclipse](#) (2017)  
Attended a workshop at "Negareh Institute".
  - Certification of [PVTi](#) Workshop (2017)  
Attended a workshop at "Islamic Azad University, Science and Research Branch".

---

## Language

- 
- English (IELTS Candidate/General)
  - Persian (Native)

---

## Reference

- 
- |                           |   |
|---------------------------|---|
| Prof. Saeid Jamshidi      | Associate Professor at the Sharif University of Technology,<br>Chairman of Department of Chemical and Petroleum Engineering,<br>Tehran, Iran<br><a href="mailto:jamshidi@sharif.edu">jamshidi@sharif.edu</a>    |
| Prof. Majid Bagheri       | Associate Professor at the University of Tehran,<br>Head of Exploration Seismology Research Section Institute of Geophysics<br>Tehran, Iran<br><a href="mailto:majidbagheri@ut.ac.ir">majidbagheri@ut.ac.ir</a> |
| Prof. Arash Ebrahim Abadi | Associate Professor at the Islamic Azad University Qaemshahr Branch,<br>Department of Mining and Geology,<br>Qaemshahr, Iran<br><a href="mailto:mabadi@Qaemiau.ac.ir">mabadi@Qaemiau.ac.ir</a>                  |