Personal

- E-mails: sajadimousa@gmail.com
- Cell Phone: +989129339688
- Military service status: Finished at Central Provost of Islamic Republic of Iran Army
- 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
Thesis Title: Sedimentary environments and oil shale formation beds
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

Computer skills & software:	Common: MSOffice, and VB(Macros), GWA (Sheets, Docs, Sliders, Forms). OS language: Batch, PowerShell, Bash. IDE: Visual Studio Code (VSCode) and VS.
Engineering software:	**Monster:** Eclipse (Schlumberger), COMSOL Multiphysics. **Familiar:** Petrel & Techlog (Schlumberger), CMG (Computer Modelling Group), F.A.S.T. (Fekete), Ecrin (Saphir, Topaze, Diamant), Emeraude, PDSView, Geolog(Paradigm), PanSystem, ArcGIS, Surfer.
Programming language:	**Monster**: MATLAB, GNU Octave, Python, JavaScript, C#(+WPF), and Maple. **Understanding syntax:** Ruby, Julia, Dart (Flutter), C++, Objective-C, Swift, Java, Kotlin, Scala, Rust, Solidity.
Other extension files:	Interactive Python Notebook (.ipynb), .dxf, .json, .bin, .raw, .exe, Pine Script.
3D software:	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©** (FreeLancer, Tehran, Iran | June 2021 – June 2022)
- **Chairman of the Board** (Irsa Modern Espad Co., Tehran, Iran | Nov 2017 – Present)
- **Pipe Line Supervisor** (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, Chairman of Department of Chemical and Petroleum Engineering, Tehran, Iran jamshidi@sharif.edu
Prof. Majid Bagheri	Associate Professor at the University of Tehran, Head of Exploration Seismology Research Section Institute of Geophysics Tehran, Iran majidbagheri@ut.ac.ir
Prof. Arash Ebrahim Abadi	Associate Professor at the Islamic Azad University, Central Tehran Branch, Department of Petroleum, Mining and Materials Engineering, Tehran, Iran a.ebrahimabadi@iauctb.ac.ir