
Personal

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- Military service status: Iran, finished at army military police
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- 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](#)**® (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)

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- 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

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|---------------------------|---|
| Prof. Saeid Jamshidi | Associate Professor at the Sharif University of Technology,
Chairman of Department of Chemical and Petroleum Engineering,
Tehran, Iran
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| 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 Qaemshahr Branch,
Department of Mining and Geology,
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