

Ali Sufali – Résumé

Address	Institute of Petroleum Engineering (IPE), University of Tehran, Tehran, Iran	Mobile Phone	+98 (918) 488 9034
Date of Birth	2 nd September 1996	Email	ali.sufali@ut.ac.ir
Nationality	Persian	LinkedIn	ali sufali

Personal Profile

Reservoir engineer, PVT Specialist and Programmer with 3+ years of experience in PVT simulations and Computational Fluid Dynamics (CFD) and 5+ years of experience in writing scientific programs, Looking to use my skills and experiences in developing and building accurate, robust and efficient simulation codes.

Education

2020-Now	PhD. in Reservoir Engineering - University of Tehran, Tehran Straight Student (Using Educational Background) <i>Average Score</i> 18.70 / 20
2018-2020	M.Sc. in Reservoir Engineering - University of Tehran, Tehran Straight Student (Using Educational Background) <i>Average Score</i> 17.92 / 20
2014-2018	B.Sc. in Reservoir Engineering - Shiraz University, Shiraz Third Position in The Class (Among 69 Students) <i>Average Score</i> 18.12 / 20

Researches and Experiences

Project	Molecular Dynamics Simulation of Oil Detachment from Calcite Surface As My M.Sc. Thesis Used Gaussian and GROMACS for simulations and Python Scripts to analyze and visualize outputs. A.Sufali, S.Riahi, M.Vaezalaei November 2019 - September 2020
Project	Developing streamline simulator with GUI. Supporting incompressible flow for water/oil 2-phase calculations. M.Siavashi, A.Sufali, M.Hosseini, M.Tahmasebi, S.Roshandel, S.Hosseini, M.Sharifi, H.Khoshtarash, H.Mohammadiha November 2020 - September 2021
Project	Writing a PVT flash calculation program for simulating 2-phase equilibrium problem. Phase Equilibrium Flash Calculations (2-Phase) using PR and SRK EOS with the ability to draw Phase Envelope Based on the Successive Substitution (S.S.) method A.Sufali June 2019 Link
Paper	Exploring pH dependent delivery of 5-fluorouracil from functionalized multi-walled carbon nanotubes. Journal of Colloids and Surfaces B: Biointerfaces (Impact Factor: 4.389),

A.Solhjoo, Z.Sobhani, A.Sufali, Z.Rezaei, S.Khabnadideh, A.Sakhteman,
September 2021
[Link](#)

Paper Natural Fracture Description using Mud-Loss Data - ...
Scientific- Propagative Journal of Oil and Gas Exploration and Production,
M.Ghaedi, A.Sufali, M.Massah,
April 2020
[Link](#)

Patent Gas/Water Production Prevention Valve (RCP Valve).
A bottom hole valve which works mechanically and prevents (or lowers) water and gas production,
P.Talkab, A.Sufali, A.Ghamartale, M.Massah, H.Yavari, M.Eschrochi, M.Riazi,
Patent Code: ir 139650140003007630,
August 2017
[Link](#)

Project Design and manufacture of Automated Intelligence Control Valve to decrease producing gas oil ratio.
Design and manufacture of an AICV to control gas flow,
With the Support of Premier Idea Support Center of Shiraz University.,
P.Talkab, A.Sufali, A.Ghamartale, M.Massah, H.Yavari, M.Eschrochi, M.Riazi,
August 2017

Software Skills

■ Computational Chemistry Skills

GROMACS, LAMMPS, OPENMM - Molecular Dynamics Simulators
Gaussian, Quantum-Espresso - Quantum Mechanics Simulators
PyMol, VMD - Molecular Visualization Softwares

■ Programming Skills

Python, C/C++, Fortran, MATLAB - Programming Languages
PyQt5, Qt5, Kivy, Tkinter - Graphical User Interface (GUI) Frameworks
Git - Source Version Control (SVC)
CMD and Bash Scripting - OS Scripting

■ Simulation Skills

Ansys Fluent, COMSOL Multiphysics - Computational Fluid Dynamics Simulators
Schlumberger Eclipse - Reservoir Simulator
Schlumberger Pipesim and OLGA - Well Multiphase Flow Simulator

■ Miscellaneous

Microsoft Windows, Linux Ubuntu - Operating Systems
Microsoft Office, L^AT_EX - Typescripting and Office

Language Skills

- **Persian:** Native, Professional
- **English:** Professional

Interests

- **Molecular Dynamics Simulation**
- **Quantum Calculations**
- **Computational Fluid Dynamics**
- **Multiphase Flow in Porous Media and Well**

- **Reservoir Simulation**
- **PVT and Phase Equilibria Simulation**
- **Well Flow Control Devices**

Honors and Awards

May 2018 2nd Rank in Team Theoretical Petroleum Engineering Olympiad
Sharif University of Technology (Oilympic)

May 2017 6th Rank in Team Theoretical Petroleum Engineering Olympiad
Sharif University of Technology (Oilympic)