

# Curriculum Vita

**Name:** Javad Ghiasi-Freez  
**Address:** No. 7 - Sajad 39 - Sajad Blv. - Birjand- Iran  
**Postcode:** 97189-46117  
**Cell Phone:** (+98) 915 160 5121  
**Email:** [javadghiasi86@gmail.com](mailto:javadghiasi86@gmail.com)  
**Military Service:** Completed



## Education

|           |   |
|-----------|---|
| 2013-Now  | Ph.D. Candidate, Mining Exploration Engineering, Shahrood University.   |
| 2008-2010 | Master of Science, Petroleum Exploration Engineering, Shahrood University of Technology, Iran, GPA (18.12 out of 20). <b>M.Sc. Thesis:</b> Prediction of Reservoir Rock Petrophysical Properties Using Intelligent Soft Computational Systems     |
| 2004-2008 | Bachelor of Science, Petroleum Exploration Engineering, Petroleum University of Technology (P.U.T), Iran, GPA (16.41 out of 20)<br><b>B.Sc. project:</b> Analysis of Reservoir Rock Fractures with FMI Images in One of the SW Reservoirs of Iran |

## Honors and Awards

- Research grant awarded by Pars Oil and Gas Company (P.O.G.C) of Iran for supporting M.Sc. thesis, 2009
- Ranked 6th among 41 BSc Students of Petroleum Exploration Engineering at Petroleum University of Technology
- Ranked First among 6 MSc students of Shahrood University of Technology
- Awarded as an “Exceptional Talent Student” by National Organization of Elites
- Technical and specialized reviewer of several ISI journals (Journal of Petroleum science and Engineering, journal of Rock Mechanics and Rock Engineering, Journal of Energy Sources: Part A, Journal of World Applied Sciences, Journal of Petroleum science and technology.

## ISI Papers and Publications

- 1- **Javad Ghiasi-Freez**, Ali Kadkhodaie-Ilkhachi, Mansur Ziiai, 2012. Improving the Flow Unit Prediction Accuracy through Two Committee Machine Models: an Example from the South Pars gas field, Iran. Journal of Computers & Geosciences 46, 10-23.
- 2- **Javad Ghiasi-Freez**, Iman Soleymanpour, Ali Kadkhodaie-Ilkhachi, Mansur Ziiai, Mahdi Sedighi, Amir Hatampour, 2012. Automated Porosity Identification from Thin Section Images Using Image Analysis and Intelligent Discriminant Classifiers. Journal of Computers & Geosciences 45, 36-45.
- 3- **Javad Ghiasi-Freez**, Ali Kadkhodaie-Ilkhachi, Mansur Ziiai, 2012. The application of committee machine with intelligent systems to the prediction of permeability from petrographic image analysis and well logs data: a case study from the South of Iran, Journal of Petroleum Science and Technology 30, pp. 2122-2136.
- 4- Amir Hatampour, **Javad Ghiasi-Freez**, Iman Soleimanpour, 2013. Prediction of Flow Units in Heterogeneous Carbonate Reservoirs Using Intelligently Derived Formula: Case Study in an Iranian Reservoir. Arabian Journal of Science and Engineering. DOI 10.1007/s13369-013-0825-5. Available Online.
- 5- Amir Hatampour, **Javad Ghiasi-Freez**, 2013. A Fuzzy Logic Model for Predicting Dipole Shear Sonic Imager Parameters from Conventional Well Logs, Journal of Petroleum Science and Technology 31:2557–2568.
- 6- **Javad Ghiasi-Freez**, Soodabeh Honarmand-fard, Mansur Ziiai, 2014. Automated Dunham Classification of Carbonate Rocks through Image Processing and Intelligent model. Journal of petroleum science and technology 32:100-107.

7- **Javad Ghiasi-Freez**, Mansur Ziiai, Ali Kadkhodaie-Ilkhachi, Javad Honarmand, 2014. Reservoir Rock Porosity Estimation through Image Analysis and Fuzzy Logic Techniques. Journal of Energy Sources, Part A: Recovery, Utilization, and Environmental effects, 36:1276–1284.

8- Amir Negahdari, Mansour Ziiai, **Javad Ghiasi-Freez**, 2014. Application of Discriminant Analysis for Studying the Source Rock Potential of Probable Formations in the Lorestan Basin, Iran. International Journal of Mining and geo-engineering, 48: 31-54.

#### **Conference participations**

---

1- MohammadReza Adelzadeh, **Javad Ghiasi-Freez**, Amir Hatampour, 2012, The Application of Committee Fuzzy Inference System to Improve Results of Fuzzy Model in Flow Units Prediction of Petroleum Reservoirs, International Conference on Computer and Information Science, Universiti Teknologi PETRONAS, Malaysia.

2- Amir Hatampour, **Javad Ghiasi-Freez**, MohammadReza Adelzadeh, 2012, Using Committee Machine with Intelligent Systems for Permeability Prediction: A Case Study from the South Pars Gas Field, International Conference on Computer and Information Science, Universiti Teknologi PETRONAS, Malaysia.

#### **Research Interests**

---

- Reservoir Characterization and Geological Modelling
- Evaluation of Petrophysical Characteristics of carbonate reservoir rocks
- Source Rock Evaluation and Thermal Modelling
- Characterization of shale gas reservoir (unconventional reservoirs)
- Applications of intelligent systems, image analysis, pattern recognition and signal processing in petroleum engineering and geosciences

#### **Practical Internship**

---

**Summer 2006** Job training at N.I.S.O.C. (National Iranian South Oil Company), Department of Geology, Acquaintance with the Main Topics of Reservoir and Drilling Engineering.

**Summer 2007** Job Training at N.I.S.O.C. (National Iranian South Oil Company), Rig #57 in the Ahwaz oil field and Rig #44 in Marun oil Field.

**2012-2013** Job Experience at Pars Oil and Gas Company (Development of phases 22-24)

#### **Technical Workshops**

---

Participation in TOTAL Company's Workshops (2008) at Petroleum University of Technology:

- "Well Log Analysis" presented by **Mr. M. Mille** (TOTAL Professor Associates)
- "Petroleum Geosciences" presented by **Mr. Ch. Chomate** and **Mr. J. Mouillac**

#### **Computer Skills**

---

- Matlab programming and its toolboxes (neural network, fuzzy logic, optimization algorithms, wavelet transform)
  - Basic Computer Literacy (Word, Excel, Power point)
  - Skilled at Petroleum Engineering Software programs; GeoLog, PetroMod
  - **Language Proficiency**
- 

English; Fluent (All the courses of BSc were Instructed and Examined in English)

Tolimo Examination Score: 540