

TAYEB A. TAFTI

Mork Family Department of Chemical Engineering and Materials Science
University of Southern California
925 Bloom Walk, HED 309
Los Angeles, CA 90089-1211
E-mail: ayatolla@usc.edu
☎: 213-440-3223

EDUCATION

- PhD, Petroleum Engineering, University of Southern California (Jan. 2009 to Present)
 - Cumulative GPA: 3.97
- Certificate in Smart Oilfield Technologies, University of Southern California (2009 to 2010)
- M.Sc., Petroleum Engineering, University of Southern California (2009 to 2010)
- M.Sc., Civil Engineering (Offshore Engineering), Sharif University of Technology, Iran (2006 to 2008)
- B.Sc., Petroleum Engineering, Sharif University of Technology, Iran (2003 to 2007)
- B.Sc., Civil Engineering, Sharif University of Technology, Iran (2002 to 2006)

WORK EXPERIENCE

- University of Southern California**, Research Assistant, Los Angeles, CA May 2009 – Present
- Led a group of graduate students in a project to detect gas prospects in Gulf of Mexico by integrating seismic attribute analysis and neural network technique to increase the production in Grand Bay field.
 - Worked in a team of Electrical and Petroleum Engineers Mapped the high contrast permeability structures using injection/production data, 3-D waterflood tomography to better characterize oil reservoirs. This research is ongoing project at Center for Interactive Smart Oilfield Technologies (Cisoft).
 - Worked in fracture network characterization project team on “The Geysers” geothermal field using micro-seismic data, soft computing techniques, fractal, and shear wave anisotropy analysis to develop a new Enhanced Geothermal System for electricity production.
 - Developed fuzzy clustering method of micro-seismic events to identify the potential wells for Enhanced Geothermal Systems (EGS).
- University of Southern California**, Teaching Assistant, Los Angeles, CA May 2009 – Present
- Held discussion sessions and tutor students in graduate courses of petroleum engineering department: Engineering and Economic Evaluation of Subsurface Reservoirs, Simulation of Subsurface Flow and Transport Processes, and Testing of Wells and Aquifers
- Marine Systems Technologists (MST) Ltd.**, Consultant Engineer, Iran January 2007 – August 2007
- Performed in-place, seismic and fatigue analysis of the existing offshore platform in Persian Gulf
 - Designed welded connections of new topside for the same platform in Persian Gulf
- Iranian Offshore Oil Company (IOOC)**, Reservoir Engineering Intern, Iran May 2006 - August 2006
- Investigated offshore wells productivity improvement in Salman oil field at Persian Gulf

HONORS

- Received the Viterbi Doctoral Fellowship 2008-2012
- Received the George V. Chilingar Petroleum engineering Award 2010
- Awarded the Graduate scholarship, SPE LA basin section 2009-2010
- Exempted from M.Sc. program entrance exam as an "Exceptional Talented" student 2006
- Received a scholarship to study in “Dual Degree Program”, Civil and Petroleum Engineering 2003-2007
- Titled as "Brilliant and gifted student", Iran Graduation and Admission Office 2002

SKILLS

- Petroleum Engineering : Eclipse, CMG, Gslib, F.A.S.T, Weka
- Geophysics : OpendTect, SMT, Zmap
- Civil Engineering: SACS, SAP, ETABS,SAFE, CADAM, FRAC-DAM
- Programming Languages: MATLAB , Visual Basic, Pascal, Unix
- Applications: Microsoft Office, Adobe

Leadership Experience

- President of the SEG student Chapter at University of Southern California 2010 - present
- Senator of Mork Family Department in Viterbi Graduate Student Association (VGSA) 2009-2010
- Chairman of Executive Committee of Iranian Scientific Organization of Civil Engineering Students 2004-2006
- Vice-Chairman of Executive Affairs Committee of First National Congress on Civil Engineering 2005-2006
- Editor, Civil Engineering Magazine, Sharif University of Technology (ISSN 1023-7437) 2003-2006
- Elected member of the Civil Engineering Department Student Council 2002-2004