

Curriculum Vitae

Baban Mustafa Yousef
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EDUCATION

- 2012-2016 University of Leeds, UK
PhD Geophysics
- 2006-2009 University of Tehran, Iran (Accredited by the institute of Geophysics)
MSc Geophysics (Exploration Seismology)
- 2001-2005 University of Qom, Iran
BSc Physics
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RELEVANT WORK EXPERIENCE

Geophysicist:

- July 2011- September 2011 Land 3D seismic data acquisition and processing**
General Exploration Partners (GEP) Company, Atrush Block-Duhok-Iraqi Kurdistan
- The work was including participation and primarily was focused on doing processing of 3D reflection seismic data using Vista software.
 - **Key Projects:**
 - accordance with the survey design performing the operation which its S/N ratio was acceptable.
 - Conducting a refraction test to evaluate the LVL in order to drill the holes of dynamite source.
 - Implementing both vibroseis and dynamite source depend on the complexity to carry driller or being close to the residential region.

- January 2008- February 2008 Land 3D Seismic Data Acquisition**
Oil Exploration Operation Company, Participate in on the Pazanan block - Ahwaz, Iran
- The work was my MSc internship, which I initiated observation the job of all crews such as survey, drilling, HSE and QC.

Teaching: Assistant Lecturer (University of Salahaddin, Erbil-Iraqi Kurdistan Region) Geophysics (December 2009 – January 2012):

- Delivering lectures in 3rd year practical geophysics module. This role involved setting and marking of exam questions.
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Skills Profile

Contribute to a good working environment

- As part of my MSc study, I supervised a group of students carrying out a small scale data refraction acquisition to extract the campus' underground layers and their properties.
- Being Captain of my handball team at Institute of Geophysics of University of Tehran has honed my leadership and team engagement skills which has seen my team go through the season and winning our second trophy against other departments.

Strong communication and ability to work with different cultures

- Working with other crews at GEP company with different culture, I ensured we worked harmoniously as a team, conducting operation on that short time bas on report of head team manager.
- Conducting a series of seminars in my PhD study, requiring communication and inviting researchers to show their final results. That brought lots of insights into current executing research with addition of making new scientific/industrial connections.

Analytical and Strategic mind

As PhD student during the last three years, I needed to have a great plan including all parts of my PhD in detail and update each three-month based on my progress. Following the time-scale make my progress more efficient.

In addition, I needed to debug my research codes by looking inside the code precisely and go step by step ahead. Changing the coordinate or adjusting the scale of input parameters resolved it.

SOFTWARE SKILLS

- Familiar with both PC and Macintosh environments
- Programming: MATLAB®, Fortran
- Geophysical Software/Packages: VISTA®, Hampson-Russell®, PickWin®, WAVE, Sheba (Shear-wave splitting), Matisse (seismic Anisotropy Tomography)

CERTIFICATES

- 2015 Understanding Seismic Anisotropy in Exploration and Exploitation: Hands On
Dr. Leon Thomsen (Delta Geophysics)
EAGE (European Association of Geoscientists and Engineering)
31May -1 June 2015- Madrid, Spain.
- 2015 Seismic Imaging: A Review of the Techniques, their Principles, Merits and Limitations
Mr Etienne Robein, ERT - Pau, France
EAGE (European Association of Geoscientists and Engineering)
2-3 March 2015- London, UK.
- 2014 Full Waveform Inversion: Where are the Anisotropic Parameters hiding?
EAGE (European Association of Geoscientists and Engineering)
June 2014- London, UK.
- 2013 Seismic Fracture Characterization: concepts and Practical applications (EET 8)
EAGE (European Association of Geoscientists and Engineering)
June 2013- London, UK.
- 2009 Land Data Acquisition and Processing
EAGE (European Association of Geoscientists and Engineering)
May 2009-Shiraz, Iran.

PUBLICATIONS AND PRESENTATIONS

Yousef, B.M., Almarzooq, H., Angus, D.A. & Hildyard, M.W. (2017). Fracture parameter inversion from passive seismic shear-wave splitting: A validation study using full-waveform numerical synthetics, Tectonophysics ([10.1016/j.tecto.2017.06.034](https://doi.org/10.1016/j.tecto.2017.06.034)).

Yousef, B. M., and Angus, D. A. (2017). Analysis of fracture induced scattering of microseismic shear-waves. *Studia Geophysica et Geodaetica*, 61, 1-26.

Yousef, B., and Angus, D. (2016). When do fractured media become seismically anisotropic? some implications on quantifying fracture properties. *Earth and Planetary Science Letters*, 444, 150–159.

Yousef, B.M., Angus, D.A., Hildyard, M.W., Verdon, J.P., Perry, M., 2014. “Measuring shear-wave splitting using seismic anisotropy”. 76th EAGE, 16-19 June, Amsterdam, Netherlands.

Yousef, B., Angus, D., Hildyard, M., Verdon, J. and Perry, M. 2013. “Full waveform model validation of microseismic shear-wave splitting fracture parameter inversion”. In: Second EAGE Workshop on Naturally Fractured Reservoirs.

Yousef, B. M., Javaherian, A., Shini Kimassi, H. and Moslemi, A., 2009, “Application of nonstretch NMO in seismic reflection data processing”, EAGE Shiraz, May 4-6, Iran.

Yousef, B. M., Javaherian, A. and Shini Kimasi, H., 2008, “Nonstretch NMO correction in seismic processing”, SEGJ 119th Meeting, Invitation, Tokyo, September, Japan.

LANGUAGES

- Mother tongue: Kurdish
- Other Languages: English and Persian

RESEARCH INTERESTS

- Seismic data processing
- Modelling discrete fractured medium
- Inverting fracture properties of fractured media
- Study transition behaviour between scattering and effective medium of fractured media

ORGANAZATION AFFILIATIONS

2006-present Society of Exploration Geophysicist: SEG

2006-present European Association of Geoscientists & Engineers: EAGE

2006-present American Association of Petroleum Geologists: AAPG

REFERENCES

Dr. Doug Angus (PhD Supervisor)

Associate Professor: Seismic Geomechanics; Director Institute for Applied Geosciences, University of Leeds, Leeds, UK.

Email: d.angus@leeds.ac.uk

<http://www.see.leeds.ac.uk/people/d.angus>

Prof. Abdolrahim Javaherian (MSc Supervisor)

Full Professor of Geophysics, Institute of Geophysics, University of Tehran, Tehran, Iran.

Email: javaherian@aut.ac.ir

Dr. Ehsan Zabihi Naeini

Senior Research Advisor -Ikon Science

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