



Dr. Aamir Ali

Contact Information:

Assistant Professor
Department of Earth Sciences
Quaid-I-Azam University
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Personal Information:

Date of Birth: 02-04-1982
Place of Birth: Pakistan
Citizenship: Pakistani
Gender: Male
Marital Status: single

Areas of Interest:

- Seismic anisotropy of fractured reservoirs; Seismic anisotropy of shales
- AVO analysis in unconventional reservoirs; Reservoir characterization
- Rock physics based seismic inversion; Seismic processing and interpretation.

Work Experience:

- Permanent lecturer at the Department of Earth Sciences, the Quaid-I-Azam University, Islamabad, Pakistan (28-03-2005 to 16-01-2008).
- PhD candidate at Department of Earth Science University of Bergen, Norway (16-01-2011 to 31-09-2011).
- Three months internship at CGGVeritas Massy office Paris, typically designed for working with characterization of fractured reservoirs using seismic AVAZ data (03-05-2009 to 03-08-2011).
- Two months research project at STATOIL Norway in rock physics of heavy oil (21-06-2011 to 21-08-2011).
- Assistant Professor at the Department of Earth Sciences, the Quaid-I-Azam University, Islamabad, Pakistan (since 03-10-2011).

Education:

PhD in Petroleum Geosciences Jan 2008 – Aug 2011
University of Bergen, Norway

Thesis Title: Correlations between the effective permeability and seismic anisotropy of fractured reservoirs.

Master of Philosophy in Geophysics Jan 2004 – Jan 2006
Quaid-I-Azam University, Islamabad, Pakistan

Thesis Title: Structural interpretation of seismic profiles integrated with reservoir characteristics of the Qadirpur Area, Sind Pakistan.
Average Grade: A

Master in Earth Sciences Geophysics Feb 2002 - Jan 2004
Quaid-I-Azam University Islamabad, Pakistan

Thesis title: Fault Plane Solutions in a part of Upper Indus Basin (Kohat Plateau), Pakistan for events occurring till 2002.
Average Grade: B

Bachelors of Science (Double maths, physics) Jan 1999 – Jan 2001
University of Azad Kashmir, Pakistan

Average Grade: B

Computer Skills and Software's Handling:

Professional Certificate course (six months) from Computer center Quaid-I-Azam University, Islamabad Pakistan, 2004.

Major Subjects:

- Electronic Data processing
- System Analysis and Design
- Application Packages
- Oracle 7.0
- C- Language
- Matlab

Knowledge of Software's

GEOCLUSTER (Seismic processing)	NORSAR 3D (Seismic modeling)
SEISROX (4D seismic)	WINPICS (Seismic Interpretation)
PRKBAS (Hydrogeology)	KONIK (Hydrogeology)
FINEL (Hydrogeology)	SURFER 08
GRAVITY MODELING	AZMTAK (Seismology)
PETREL (Seismic interpretation)	PMAN (Seismology)

Awards:

- Throughout first class academic career.
- First position in professional certificate computer course.
- Certificate of honor in M.Phil Geophysics.
- Merit scholarship holder from Quaid-I-Azam University Islamabad, Pakistan and Higher Education Commission Pakistan in M.Phil.
- Fully funded PhD scholarship Holder from Higher Education Commission, Pakistan at University of Bergen, Norway.

Seminars, Conferences, Workshops:

- 73rd EAGE Conference and Exhibition, Vienna, Austria 2011
- Lofoten Geophysics seminar, Lofoten Norway 2010
- 72nd EAGE Conference and Exhibition, Barcelona, Spain 2010
- 71st EAGE Conference and Exhibition, Amsterdam 2009
- 13th Seismic anisotropy Workshop, Colorado USA 2008
- 70th EAGE Conference and Exhibition, Rome 2008
- Lofoten Geophysics seminar. Lofoten Norway 2008
- Seminar on Environmental challenges in Pakistan, 2006
- Seminar on Water crisis in Pakistan; Concerns and Challenges, 2006

Published Papers:

- **Ali, A.,** Ahmad, Z., & Akhtar, G. (2005): Structural interpretation of seismic profiles integrated with reservoir characteristics of Qadirpur area, *Pakistan Journal of Hydrocarbon Research*, 15, 25-34.
- Shahraini, A., **Ali, A.,** & Jakobsen, M. (2011): Seismic history matching in fractured reservoirs using a consistent stiffness-permeability model: Focus on the effects of fracture aperture, *Geophysical Prospecting*, 59, 492-505.
- **Ali, A.** & Jakobsen, M. (2011): Improved characterization of fault zones by quantitative integration of seismic and production data, *Journal of Geophysics and Engineering*, 8, 259-274.
- **Ali, A.** & Jakobsen, M. (2011): On the accuracy of Rüger's approximation for reflection coefficients in HTI media: Implications for the determination of fracture density and orientation from seismic AVAZ data, *Journal of Geophysics and Engineering*, 8, 372-393.
- **Ali, A.** & Jakobsen, M. (2011): Seismic characterization of reservoirs with multiple fracture sets using velocity and attenuation anisotropy data, *Journal of Applied Geophysics*, 75, 590-602.

Submitted Papers:

- **Ali, A.** & Jakobsen, M. (2011): Anisotropic permeability in fractured reservoirs from frequency-dependent seismic AVAZ data, *Geophysical prospecting*, Under review.

Extended Abstracts:

- **Extended Abstract 1:** Ali, A., Shahraini, A., and Jakobsen, M. (2009): 'Improved characterization of fault zones by quantitative integration of seismic and production data', 6129, EAGE Annual Meeting Amsterdam.
- **Extended Abstract 2:** Ali, A., and Jakobsen, M. (2010): 'On the accuracy of Rüger's Approximations for PP Reflection Coefficients in HTI Media', 8334, EAGE Annual Meeting Barcelona.
- **Extended Abstract 3:** Shahraini, A., and Jakobsen, M., and Ali. A. (2010): 'Seismic History Matching in Fractured Reservoirs Using a Consistent Stiffness-permeability Model - Focus on the Aperture', K035, EAGE Annual Meeting Barcelona.
- **Extended Abstract 4:** Ali, A., and Jakobsen, M. (2011): 'On the Relative Importance of Global and Squirt Flow in Cracked Porous Media', 10981, EAGE Annual Meeting Vienna.
- **Extended Abstract 5:** Ali, A., and Jakobsen, M. (2011): 'Seismic characterization of reservoirs with multiple fracture sets using velocity and attenuation anisotropy data', 10650, EAGE Annual Meeting Vienna.

Professional Memberships

- Global member of Society of Exploration Geophysicists (SEG)
- Member of European Association of Geoscientists and Engineers (EAGE)

Languages

- **Mother Tongue:** Urdu, Fluent in oral and written.
- **English Ability:** Fluent in oral and written.

Interests

- A very skillful player of Hockey, Volleyball and Table tennis.
- Like to read and write poetry.

References:

1) Morten Jakobsen (Main Supervisor for the PhD)

Associate Professor
Department of Earth Sciences
University of Bergen, Norway
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Morten.Jakobsen@geo.uib.no

2) Bent Ole Ruud (Co-Supervisor for the PhD)

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Center of Integrated Petroleum Research
University of Bergen, Norway
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