

## Abdulgader A. Alalli

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### Education

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#### Stanford University – Stanford, California

*PhD Candidate, Geophysics*

Stanford, CA  
2014-Present

#### Stanford University – Stanford, California

*Master of Science, Geophysics*

Stanford, CA  
2011-2013

#### Texas A&M University – College Station, Texas

*B.S. Geophysics, Minor in Geology, Mathematics*

College Station, Texas  
2003 – 2007

### Experience

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#### STANFORD UNIVERSITY

Dhahran, Saudi Arabia

*PhD research focus*

2014 – Present

- “Investigation of the relationship between pore size distribution and permeability in unconventional gas shale reservoirs” in more general terms, provide insight into why certain ultra-low porosity gas shales with varying mineralogical compositions can have significant permeability variations, which can therefore impact recovery factors

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*Masters of Science research focus*

2011 – 2013

- “Quantitative Analysis of Stacked Borehole Seismic Reflection Imaging” in more general terms improving the fidelity of seismic images to improve success of drilling well placement

#### SAUDI ARAMCO

Dhahran, Saudi Arabia

National Oil Company of Saudi Arabia responsible for oil resource management from exploration to refinement

*Internal Geophysicist*

2009 – 2011

- Created high resolution subsurface images for interpreting reserve estimates and to determine future well placements, essentially the primary input for the company’s exploration budget
- Provided technical client services to help refine imaging agenda for clients to more efficiently allocate geophysicist resources
- Trained six new employees in fundamentals of geophysics for oil applications, department overview, and then provided ongoing support
- Led exploration recruitment efforts for Exploration Business Line by creating speaker series to high school students and new college students

*Well Site Field Geologist*

2008 – 2009

- Ensured no loss time in drilling environment by providing live geological guidance – daily loss time costs range from \$200,000 to \$1 million

*Geophysical Data Acquisition Division*

2007 – 2008

- Managed a crew of 300 to develop underground images to explore size of potential oil reservoirs and reserves – these images were the basis for future drilling activities in the company
- Responsible for interfacing with contractor, ensuring contract delivery, and quality assurance for data

### Additional

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- Proficient in geophysical software applications (e.g. CGG Hampson-Russell Workbench, GMI, etc.), and other software (e.g. MATLAB, Fortran)
- Language: Arabic (Native), English (Native)
- Racing Team Member for Stanford Cycling Club