

# Curriculum Vitae

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Khalid A. Almuteri

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## Education

**PhD in Geophysics, Colorado School of Mines** Aug. 2019 - Present

*Advisor:* Dr. Paul Sava

**MSc in Geophysics, University of Calgary** Sep. 2015 - Jun. 2017

*Thesis title:* "Evaluating the potential of reflection-based waveform inversion"

*Advisor:* Dr. Kristopher Innanen

**BS in Geophysics, University of Houston, *cum laude*** Aug. 2008 - Sep. 2012

with minor in Mathematics

## Employment

**Saudi Aramco - Geophysical Data Processing** Jul. 2017 - Aug. 2019

Working on new technologies implementation, testing, and deployment for near-surface velocity model inversion.

**Saudi Aramco - Professional Development Program** Oct. 2012 - Aug. 2015

An extended on-boarding program for new geoscientists beginning a career in the Exploration Organization.

- Reservoir Characterization Department 5 months  
Worked on building 3D static reservoir models.
- Area Exploration Department 13 months  
Worked on seismic interpretation, seismic attributes analysis, and prospect generation for onshore and offshore areas in Saudi Arabia.
- Regional Resources Assessment Department 5 months  
Worked on regional-scale seismic interpretation, 1-D basin modeling, gross depositional environment mapping, and common risk segment mapping.

- Geophysical Technical Services Department 2 months  
Worked on rock physics modeling, seismic inversion, zero offset VSP processing, and seismic imaging.
- Geophysical Data Processing Department 7 months  
Processed land seismic data from SEG D to pre-stack time migration.
- Aramco's on-boarding multidisciplinary program 3 months  
Worked with a multidisciplinary team, including reservoir engineers, drilling engineers, and production engineers on an oil and gas exploration and production simulation.

## Computer Skills

Geophysical software:

- Echos
- GeoTomo
- Petrel
- Madagascar

Programming:

- Python
- Matlab

General:

- MS Office
- Latex

## Research Interests

- Seismic imaging
- Seismic inversion
- Signal processing
- Wave propagation
- Machine learning

## Conference Abstracts

- [1] **Almuteri, K.**, 2018, Time-domain reflection-based waveform inversion: 88th Annual International Meeting, SEG, Expanded Abstracts, 1273–1277.
- [2] **Almuteri, K.**, K. Innanen, and Y. Geng, 2017, Evaluating the potential of reflection-based waveform inversion: GeoConvention, Expanded Abstracts.