

Sharif Morshed

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Summary: A geophysics doctoral student with 2+ years of industry experiences. Key areas- rock physics, quantitative seismic interpretation and petrophysics. Skilled in programming as well as industry software.

EDUCATION

University of Houston, Earth and Atmospheric Sciences Department **Dec 2018**

Ph.D. candidate, Geophysics

Dissertation: Effective elastic properties due to interactions of ellipsoidal inclusions in a random medium with stress, Advisor: Dr. Evgeny Chesnokov CGPA: 3.9/4.0

The University of Texas at Austin, Jackson school of Geosciences **Dec 2013**

Master of Science, Geophysics

Thesis: Seismic sensitivity to variations of rock properties in the productive zone of the Marcellus Shale, WV
Advisor: Dr. Robert Tatham

University of Dhaka, Bangladesh **Aug 2010**

B.Sc.(Hons.), and M.Sc., Petroleum Geology and Geophysics

Thesis: Seismic interpretation and modeling of Rashidpur gas field for deciphering structure, tectonics and hydrocarbon potentiality, CGPA: First Class 3rd position (4.0/4.0)

PROFESSIONAL EXPERIENCE

University of Houston, Teaching Assistant (Physical Geology Lab) **Aug 2016- present**

- Educated and assisted students with physical geology lab exercises such as rocks, topographic maps, geologic structures and interpreting geologic history

Lumina Reservoir Solutions Inc., Reservoir Geophysicist, Houston, TX **Jun 2015-Aug 2016**

- Co-authored technical reports about evaluating a prospect
- Audited and interpreted wireline data such as gamma ray, neutron, density, sonic, shear, PEF and resistivity from 170 wells of Eagle Ford shale
- Analyzed detail mineralogical composition and facies distribution, TOC, pyrolysis, fluid, porosity, permeability, saturation, rock physics and geomechanical properties of core measured data of 26 wells of Eagle Ford Shale and calibrated these analyses with wireline logging data
- Prepared 2D and 3D structural and contour maps with interpreted rock, TOC and fluid properties

Task Fronterra Geosciences, Geologist, Houston, TX **May 2014-Jan 2015**

- Evaluated geomechanical properties from drilling and image log data for two projects (clastic)
- Processed, assessed and interpreted FMI and OBMI image data for two projects (carbonate)
- Explored geological structures and fractures from borehole image log data
- Composed technical reports and illustrated structural summary plots (fracture and dip analysis)

The University of Texas at Austin, Teaching Assistant (Seismic Lithology) **Jan 2012- May 2012**

- Conducted lab exercises to interpret porosity, pore fluid, saturation, overpressure etc.
- Implemented exercises for interpretation tools such as AVO, fluid substitution and multicomponent seismic (P-wave and S-wave seismic sections)

The University of Texas at Austin, Graduate Research Assistant, Austin, TX **Aug 2010-Jul 2013**

- Simulated and examined full-waveform seismograms of anisotropic rock for AVO analysis
- Investigated rock physics and petrophysics properties of the Marcellus shale

Petrobangla, Research Student, Dhaka, Bangladesh **Jun 2009- Jul 2010**

- Prepared structural map of a gas field from 2D seismic data and geophysical well log data

Institute of Water Modeling, Research Assistant, Dhaka, Bangladesh **Jan 2009-May 2009**

- Acquired and interpreted seismic refraction and resistivity data to explore shallow aquifers

SKILLS

- Geoscience key areas: Rock physics, petrophysics, reservoir characterization, seismic interpretation, AVO, inversion, geomechanics
- Professional software: Hampson-Russell, Petrel, GeoGraphix, Terra station, Kingdom, Transform
- Programming: MATLAB (7+ years), Fortran (3+ years)
- Proficient with Microsoft office applications, Photoshop, Corel draw

HONORS AND AWARDS

EAS Scholarship (Dobrin / Shell)	2017,2016, 2015, 2014
SEG Scholarship and SEG Foundation Travel Grant	2016 and 2008
UH Energy Ambassador	2016
NSM Alumni Scholarship	2016,2015
Schlumberger ocean academic competition finalist (Software development competition)	2015
Second Place, SEG Challenge Bowl, Gulf Coast Region	2012
Shahidullah Hall Scholarship (Best Geology Student)	2009, 2010

TRAINING AND CERTIFICATE

Microseismic monitoring (SEG -2014), Full waveform inversion (SEG - 2011), Petrel (Schlumberger-2009)

LEADERSHIP AND PROFESSIONAL SOCIETY MEMBERSHIP

Phi Kappa Phi	2016- current
Secretary, SEG Wavelets, University of Houston	2015-16
Secretary, University of Dhaka Geophysical Society	2007-08
Member, SEG, SPE, AAPG	2006-current
Member, Geophysical Society of Houston	2013- current

TECHNICAL PAPERS AND ABSTRACTS

- Morshed, S.**, E. M. Chesnokov, 2017, Comparison of effective medium schemes for crack interactions, Geophysics, (Under review)
- Morshed, S.**, E. M. Chesnokov, 2017, Comparison of anisotropic effective medium schemes for isolated ellipsoidal inclusions, EAS research day, University of Houston
- Morshed, S.**, E. M. Chesnokov, 2016, Stress dependent grain contact theory for seismic velocities in multiphase media, poster presentation, Sheriff Lecture Series, University of Houston
- Morshed, S.**, E. M. Chesnokov, 2015, Anisotropic effective medium modeling to microstructural properties of gas shale, poster, EAS research day, University of Houston
- Morshed, S.**, R. H. Tatham, 2014, Seismic sensitivity to variations of rock properties in the productive zone of the Marcellus Shale, 84th Annual Meeting, SEG, Expanded abstracts, 1950-1954
- Morshed, S.**, R. H. Tatham, 2013, Rock physics modeling to constrain petrophysical properties in the productive zone of the Marcellus Shale, WV from wireline log data, MR11A-2209, AGU, San Francisco, CA
- Morshed, S.**, A.S.M Woobaidullah, I. Jahan, M. Rahman, 2013, A rock physics based seismic interpretation for a deltaic shaly sand reservoir from surface seismic and wireline log data, NS33B-02, AGU, San Francisco, CA.
- Morshed, S.**, 2013, Rock physics modeling to constrain petrophysical properties of the productive zone of the Marcellus Shale, WV from wireline log data, 2013, EDGER Forum, Austin, TX
- Morshed, S.**, 2013, Rock physics modeling to constrain petrophysical properties of the productive zone of the Marcellus Shale, WV, EDGER Forum, Austin, TX
- Morshed, S.**, 2012, Seismic anisotropy of the Marcellus Shale, EDGER Forum, Austin, TX
- Morshed, S.**, 2011, Seismic responses to anisotropic variations in Lower Marcellus Shale, EDGER, Austin, TX

COMMUNITY AND VOLUNTEER ACTIVITIES

Various events arranged by UH Energy and SEG Wavelets	2017, 2016, 2015
Technical session monitor, Society of Exploration Geophysicists Annual Meeting	2016,2015
Team projects judge / Judge, Science & Engineering fair of Houston	2016,2015
Judge / Guide /Mentor, Mars Rover Celebration/ Research Day/ Geosociety, UH	2016,2015,2014

EXTRACURRICULAR INTERESTS

Camping	Hiking	Badminton
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