

Son Dang Thai Phan

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WORK EXPERIENCE

Current: PhD Graduate Research Assistant at The Institute for Geophysics, The University of Texas at Austin (since Jan, 2018)

Supervisor: Prof. Mrinal K. Sen

Expected Graduation: Dec, 2022

Research topics: Quantitative Methods in Reservoir Characterizations: Seismic Inversion, Rock Physics Modeling, Multi-attribute Analysis, Sensitivity and Uncertainty Analysis; Seismic Wave Propagations;

Programming language: Fortran (mostly), Matlab (for Visualizations)

Geophysicist at Bien Dong Petroleum Operating Company (Nov, 2011-Dec, 2017)

Exploration work:

Prospect Identifications, Interpretations and Ranking in Block 05-2/10 and 05-3/11 in Nam Con Son Basin; Advanced Studies for Reservoir Characterizations using Geostatistical Seismic Inversion, AVO Attributes and Analysis; Rock Physics Modeling, Sensitivity and Uncertainty Analysis; Supervise Seismic Processing Projects; QC seismic and petrophysical data;

Development work:

Highly Deviational/Near Horizontal Well-path Location Optimizations and Design (Exploration and Development Wells); geological risks evaluation and estimation; Drilling Progress Real-time Monitoring and Real-time interpretations.

Supervising work:

Prepare Annual Reserve Calculations and Interpretation reports;
Present/defense geological targets for wells to partners and share-holders;
Prepare and present at the monthly operator scout meeting with other operators in Vietnam;
Plan, design and supervise geophysical services on reservoir characterizations;
Create and Plan Annual Work Program and Budgets for Geophysical Team Activities;
Cooperate with other teams (RE, Drilling) on the joint projects;
Mentor Internships and Junior Colleagues;

May 2009- Sep 2011: Graduate Research Assistant, The University of Texas at Austin

Research in Seismic Inversion, Reservoir Modeling and Characterizations

Feb 2009-May 2009: Student Internship at SEG Headquarter in Tulsa, Oklahoma

Catalogue Geophysical Artifacts to prepare for a Digital Library of the SEG Society

May 2008-August 2008: Geophysicist Intern at Continental Resources Inc. in Enid, Oklahoma

Well log and Seismic Interpretations for Development Wells on Bakken Shale

EDUCATION

August 2011: Master of Science in Geological Sciences, The University of Texas at Austin, USA

Thesis: Pre-injection Reservoir Evaluation at Dickman Field, Kansas

GPA: 3.7233/4.0000

Advisor: Professor Mrinal K. Sen

May 2009: Bachelor of Sciences, The University of Tulsa, Oklahoma, USA

GPA: 3.906/4.000

Major: Geosciences

Advisor: Professor Kumar Ramachandran/Bryan Tapp

GPA: 3.906/4.000

Major: Mathematics

Advisor: William Hammil

SCHOLARSHIP AND CERTIFICATE

2010: Chevron Texaco Fellowship

2009: A.N.Murray Award Certificate for Outstanding Academic Achievement in Geosciences

Ralph W.Veatch Award Certificate for Outstanding Academic Achievement in Mathematics

2007: Member of the Honor Society of Phi-Kappa-Phi for academic Excellences

STUDY

2014-2016: Applications of Extended Elastic Impedances in Reservoir Qualitative Characterizations in Hai Thach Field, Nam Con Son Basin

2011-2014: Applications of Stochastic Seismic Inversion in Quantitative Evaluations of Reservoir Quality in Moc Tinh-Hai Thach Fields, Nam Con Son Basin

2011: Seismic Inversion on Tuscaloosa Reservoir at CranField, Mississippi for Carbon Sequestration Reservoir Evaluations at Dickman Field, Kansas

Estimating reservoir parameters in Anadarko Field using seismic Inversion

2010: Multiple Suppression using Combinations of False NMO velocity and FK Transform on TAIGER05 Data

2009: Applied Geophysics Field Work using GPR to study causations of sink holes in Tulsa, Oklahoma

SKILL

Languages: Mother-tongue in Vietnamese, Fluent in English

Programing: Fortran Advanced Programming, Matlab, Java

Personal Owned Software: Direct Inversion for Reservoir Propertoes (Sw, Vshale, Porosity) written in Fortran

Software: Petrel Geophysics, SMT Kingdom, Hampson-Russell, Rokdoc, Vista, IP 3.5, Techlog, Focus, ArcGIS

PUBLICATION

Phan, S; Hoang, H.M; Tran, N.H, '*Application of Extended Elastic Impedance for Gas Indicator and Sand Outlining at Nam con son Basin, Offshore Vietnam*', 2016, International Geophysical Conference, Beijing, <https://doi.org/10.1190/IGCBeijing2016-047>

Phan, S; Hoang, H.M; Tran, N.H, '*Direct Gas Sand Quality Estimation from Seismic Inversion, a successful story from Hai Thach Field, Nam Con Son Basin, Vietnam*', 2016, International Conference and Exhibition, Barcelona, Pg. 301-301, <https://doi.org/10.1190/ice2016-6257002.1>

Zhang, R; Sen, M; **Phan, S;** Srinivasan, S, '*Stochastic and Deterministic Seismic Inversion Methods for Thin-bed Resolutions*', Journal of Geophysics and Engineering, Vol. 9, Issue 5, Pg. 611

Phan, S and Sen, M, '*Porosity estimation from Seismic Data at Dickman Field, Kansas for Carbon Sequestration*', SEG Annual Meeting, Denver 2010, oral presentation

Phan, S and Sen, M, '*Reservoir Evaluation for Carbon Sequestration at Dickman Field, Kansas*', SEG Annual Meeting, San Antonio 2011, poster presentation

Phan, S and Sen, M, '*Pre-Injection Reservoir Evaluation at Dickman Field, Kansas: Stochastic Pre-stack Inversion and Flow Modeling*', SEG Summer Workshop: Inverting The Reservoir, Quebec June 26-30, 2011

REFERENCE

Dr Mrinal K. Sen

Professor at UT Austin

Associate Director at UTIG

Email: mrinal@utexas.edu

Dr Tung Vu Tran

Subsurface Deputy Manager

Bien Dong Petroleum Operating Company

Email: tungtv@biendongpoc.vn