

Tugrul KONUK

tugrulkonuk@mines.edu

WORK EXPERIENCE

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| <i>Current</i>
JAN 2018 | Research Assistant at COLORADO SCHOOL OF MINES, Golden, CO, US
<i>Center for Wave Phenomena</i>
Current research includes mimetic finite difference modeling of time-varying sea surface effects on seismic data, rough sea effects on deghosting, demultiple, and time-lapse (4D) seismic. |
| 2018
2012 | Geophysicist at PETRONAS, Kuala Lumpur, Malaysia
Participated in multiple research and development projects as the lead researcher, including full waveform inversion, reverse time migration, full wavefield migration, and joint migration inversion. Actively contributed to seismic data processing, velocity model building, and depth imaging projects. |
| 2008 | Summer Intern at GENERAL DIRECTORATE OF MINERAL RESEARCH AND EXPLORATION, Turkey
Participated in a controlled source audio magnetotellurics survey for geothermal exploration in Aydin, Turkey. |

EDUCATION

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| <i>Current</i>
JAN 2018 | PhD in GEOPHYSICS, Colorado School of Mines, Golden, CO, US
Compressive sensing for seismic data reconstruction Advisor: Dr. Jeffrey SHRAGGE |
| 2012
2009 | M.Sc. in GEOPHYSICS, Canakkale Onsekiz Mart University, Canakkale, Turkey
Thesis: "Two-dimensional inversion of marine magnetotellurics data using cross-gradients method" |
| JUN 2011
JAN 2011 | EU Exchange Student, Comenius University in Bratislava, Slovakia |
| 2009
2005 | B.Sc. in GEOPHYSICS, Canakkale Onsekiz Mart University, Turkey
Thesis: "Three dimensional inversion of magnetic anomalies: a comparison of individual and hybrid use of exact and approximate equations" |

PROFESSIONAL ACTIVITIES

Technical Committee Member, SEG Full Waveform Inversion Workshop, Bahrain, 2017.

Session Chair of Seismic Processing and Imaging, Asia Petroleum Geoscience Conference and Exhibition (APGCE) 2017, Kuala Lumpur, Malaysia.

PROFESSIONAL TRAINING

SEG Distinguished Instructor Short Course, Presented by Paul Hatchell, Getting more for less: Frequent low-cost seismic monitoring solutions for offshore fields, Kuala Lumpur, Malaysia, 2017.

SEG Distinguished Instructor Short Course, Presented by James Gaiser, 3C Seismic and VSP: Converted Waves and Vector Wavefield Applications, Kuala Lumpur, Malaysia, 2016.

EAGE Education Tour (EET) 10: Kuala Lumpur, Full Waveform Inversion: Where are the Anisotropic Parameters hiding?, Presented by Tariq Alkhalifah, Kuala Lumpur, Malaysia, 2015.

SEG Distinguished Instructor Short Course, Presented by Gerard T. Schuster, Seismic Interferometry and Beyond – Harvesting Signal from Coherent Noise, Kuala Lumpur, Malaysia, 2013

SEG Distinguished Instructor Short Course, Presented by David Johnston, Making Difference with 4D: Practical Applications of Time-Lapse Seismic Data, Kuala Lumpur, Malaysia, 2013.

HR Software Suite and Seismic Interpretation Course, Kuala Lumpur, Malaysia, 2013.

New Expansion in Engineering Researches and Development (NERD 08), Society of Exploration geophysicists (SEG) Workshop, Canakkale, Turkey, 2008.

SKILLS

Geophysical Software: Omega, Petrel, Promax, HR Software Suite, Seismic Unix
Programming: C/C++, Fortran, Java, Python, Matlab, MPI, OpenMP, Cuda
Workstation: Experienced user of MS Windows and Linux environments
Language: English(Fluent), Turkish(native)

PUBLICATIONS

Konuk, T., El Kady, N., Bourdon, L. M., Ghazali A.R., Hardy, R. J. J., Rahim, M. F. A., Maitra, S., Imaging through gas clouds in the presence of strong azimuthal anisotropy, Asia Petroleum Geoscience Conference and Exhibition (APCGE) 2017, Kuala Lumpur, Malaysia, November 20-21 2017.

Ghazali, A. R., Hardy, R. J. J, **Konuk, T.**, Masiman R. I., Xin, K., Mad Zahir M. H., Abd Rahim, M. F., Velocity model building and imaging in the presence in shallow gas, First Break, Vol 34, No 10, October 2016 pp. 79-84.

Mokhtar, M. A., Mahmoud, S. L., **Konuk, T.**, Ghazali, A. R., Pre-carbonate velocity seismic modelling and imaging for seismic wave scattering study, Sarawak, Malaysia, EAGE Workshop on Velocities: Reducing Uncertainties in Depth, Kuala Lumpur, Malaysia, April 25-27 2016.

Hardy, R., Masiman, R., Xin, K., **Konuk, T.**, Ghazali, A. R., Ishak, M. A., Velocity model building in the presence of shallow gas, EAGE Workshop on Velocities: Reducing Uncertainties in Depth, Kuala Lumpur, Malaysia, April 25-27 2016.

Konuk, T., Ghazali, A. R., Focusing inversion based spectral analysis for reservoir characterization, Seismic Driven Reservoir Characterization and Production Management, Kuala Lumpur, Malaysia, April 20-23 2015.

Rahim, M. F. A. , Ulugergerli, E. U., **Konuk, T.**, Ghazali, A.R., Characterization of gas clouds using non-linear full waveform inversion, EAGE Seismic Attenuation Workshop 2013, Singapore, October 28-30 2013.

Konuk, T., Two dimensional full waveform inversion in frequency domain, International Geophysical Conference and Oil & Gas Exhibition, Istanbul, Turkey, September 17-19 2012.

Sezer F, Ozbilen A., Gunes S., Ozcan N., Ture D., **Konuk, T.**, Identification of microRNA genes preserved in Linen (*Linum usitatissimum*) EST databases and target genes with using bioinformatics methods, 21st International Biology Congress, Izmir, Turkey, September 3-7 2012.

Konuk, T., Uluggergerli, E. U., Two dimensional modelling of marine magnetotellurics data using finite-differences, 20th Electromagnetic Induction Workshop, Giza, Egypt, September 18-24 2010.

Konuk, T., Two dimensional modelling of marine magnetotellurics data using finite-differences, 3rd Geoelectrical Workshop 2010, Ankara, Turkey, May 24-26 2010.

Konuk, T., Ekinci, Y. L., Three dimensional inversion of magnetic anomalies: a comparison of individual and hybrid use of exact and approximate equations, International Earthquake Symposium 2009, Izmit, Turkey, August 17-19 2009.