

Oleg Ovcharenko

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INTERESTS	Seismic wave simulation, full-waveform inversion, natural stress state reconstruction, HPC, machine learning	
EDUCATION	King Abdullah University of Science and Technologies, KSA PhD student at Seismic Modeling and Inversion group, 2016 - now Affiliated to Earth Science and Engineering department (ErSE) and Extreme Computing Research Center (ECRC) Advisor: Prof. Daniel Peter GPA: 3.67/4.00 Paris VII, Diderot, Institut de Physique du Globe de Paris, France M.Sc., Exploration geophysics, 2014 - 2015 Thesis: An accurate finite difference operator for synthetic seismogram calculation for 2D transversely isotropic elastic media with regular meshing Advisors: Prof. Nobuaki Fuji and Dr. Roland Martin GPA: 14.15/20.00 (Magna Cum Laude), Ranked #1 Master thesis Lomonosov Moscow State University, Russia M.Sc., Physics, 2009 - 2014 Thesis: Analytical solution for viscous flow in the lithosphere subject to exogenous processes and isostasy. Advisor: Dr. Yuriy L. Rebetskiy GPA: 4.0/5.0	
LANGUAGES	Russian Native English Fluent French Intermediate	
PROGRAMMING	Python, Matlab, C/C++, Fortran	
LIBRARIES AND FRAMEWORKS	Tensorflow, Keras, PyTorch, Pandas, PETSc	
ONLINE COURSES	Reservoir Geomechanics by Dr. Mark D. Zoback Machine Learning by Andrew Ng Microsoft: DAT203.1x Data Science Essentials	

FIELD EXPERIENCE	<p>GeophysicsI field training in Chambon la Foret with GPX of IPGP Oct 2014</p> <p>Seismic data acquisition using industry geophones and software Final report: Green's Function Retrieval Using Active Interferometry</p> <p>Geological-geophysical expedition to North Caucasus, IPE RAS Jun - Sept 2013</p> <p>Collecting rock samples Measuring tectonophysical features with geological compass</p>	
RESEARCH EXPERIENCE	<p>Engineer Jul 2013 - Jul 2014</p> <p>Laboratory of Tectonophysics, The Schmidt Institute of Physics of the Earth of the Russian Academy of Sciences (IPE RAS) Supervisor: Dr. Yuriy L. Rebetskiy, Head of lab.</p>	
TEACHING EXPERIENCE	<p>Tutor 2010 - 2016</p> <p>Physics, math, informatics and chemistry for high-school</p>	
CONFERENCE AND JOURNAL ARTICLES	<ol style="list-style-type: none"> 1. Variance-based salt body reconstruction for improved full-waveform inversion O Ovcharenko, V Kazei, D Peter, T Alkhalifah <i>In submission to Geophysics</i> 2. Neural Network Based Low-Frequency Data Extrapolation 2017 O Ovcharenko, V Kazei, D Peter, T Alkhalifah SEG FWI Workshop, Manama, Bahrain, 2017 3. A robust neural network-based approach for microseismic event detection 2017 J Akram, O Ovcharenko, D Peter SEG Technical Program Expanded Abstracts 2017, 2929-2933 4. Variance-based Salt Body Reconstruction 2016 O Ovcharenko, VV Kazei, D Peter, T Alkhalifah 79th EAGE Conference and Exhibition 2017 5. Simple and accurate operators based on Taylor expansion for 2D elastic seismogram calculation under geological discontinuities with regular Cartesian grids 2016 N Fuji, O Ovcharenko, R Martin, C Cuvilliez 78th EAGE Conference and Exhibition 2016-Workshops 6. Present stress field of the crust in South-West Europe and Mediterranean Sea 2014 Rebetskiy, Yu., Ovcharenko, O., Savvichev, P. Bulletin of Kamchatka Regional Association "Educational-Scientific Center". Earth Sciences, No. 2(24), 2014. 	
REFERENCES	Available upon request	