

CONTACT	+933 53 273 9032	oleg.ovcharenko@kaust.edu.sa
INTERESTS	Seismic wave simulation, full-waveform inversion, natural stress state reconstruction, HPC, machine learning	
EDUCATION	<b>King Abdullah University of Science and Technologies, KSA</b> 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 <b>Paris VII, Diderot, Institut de Physique du Globe de Paris, France</b> 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 <b>Lomonosov Moscow State University, Russia</b> 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	<b>Russian</b> Native <b>English</b> Fluent <b>French</b> Intermediate	
PROGRAMMING	Python, Matlab, C/C++, Fortran	
LIBRARIES AND FRAMEWORKS	Tensorflow, Keras, PyTorch, Pandas, PETSc, etc.	
SELECTED COURSEWORK	<b>Computational Geophysics</b> (ErSE390C, Prof. Daniel Peter), <b>Introduction to HPC</b> (AMCS312, Prof. David Keyes), <b>Inverse Problems</b> (ErSE213, Prof. Ibrahim Hoteit), <b>Machine Learning</b> ( <i>in progress</i> CS 229, Prof. XiangLiang Zhang), <b>Technology Innovation and Entrepreneurship</b> (EID210, Gordon McConnell)	

FIELD EXPERIENCE	GeophysicsI <b>field training</b> in Chambon la Foret with GPX of IPGP Seismic data acquisition using industry geophones and software Final report: Green's Function Retrieval Using Active Interferometry Oct 2014
	Geological-geophysical <b>expedition</b> to North Caucasus, IPE RAS Collecting rock samples Measuring tectonophysical features with geological compass Jun 2013
RESEARCH EXPERIENCE	<b>Engineer</b> 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. 2013 - 2014
TEACHING EXPERIENCE	<b>Tutor</b> Physics, math, informatics and chemistry for high-school 2010 - 2016
HONORS AND AWARDS	<b>KAUST PhD Fellowship</b> , Saudi Arabia 2016 - 2020
	<b>GPX scholarship</b> for the International Master of Research in Exploration Geophysics at IPGP and MINES ParisTech, France 2014 - 2015
CONFERENCE AND JOURNAL ARTICLES	<ol style="list-style-type: none"> <li>1. Variance-based salt body reconstruction for improved full-waveform inversion <u>O Ovcharenko</u>, V Kazei, D Peter, T Alkhalifah <i>Under review for publication in Geophysics</i></li> <li>2. Neural Network Based Low-Frequency Data Extrapolation <u>O Ovcharenko</u>, V Kazei, D Peter, T Alkhalifah SEG FWI Workshop, Manama, Bahrain, 2017 2017</li> <li>3. A robust neural network-based approach for microseismic event detection J Akram, <u>O Ovcharenko</u>, D Peter SEG Technical Program Expanded Abstracts 2017, 2929-2933 2017</li> <li>4. Variance-based Salt Body Reconstruction <u>O Ovcharenko</u>, VV Kazei, D Peter, T Alkhalifah 79th EAGE Conference and Exhibition 2017 2016</li> <li>5. Simple and accurate operators based on Taylor expansion for 2D elastic seismogram calculation under geological discontinuities with regular Cartesian grids N Fuji, <u>O Ovcharenko</u>, R Martin, C Cuvilliez 78th EAGE Conference and Exhibition 2016-Workshops 2016</li> <li>6. Present stress field of the crust in South-West Europe and Mediterranean Sea 2014 Rebetskiy, Yu., <u>Ovcharenko, O.</u>, Savvichev, P. Bulletin of Kamchatka Regional Association "Educational-Scientific Center". Earth Sciences, No. 2(24), 2014.</li> </ol>

## REFERENCES

*Available upon request*