

# Oleg Ovcharenko

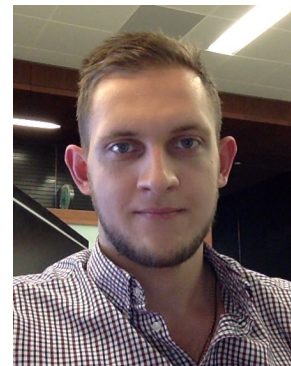
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## CONTACT INFORMATION

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Reside in: KAUST, Thuwal, Saudi Arabia  
Citizenship: Russian Federation  
Marital status: married



## RESEARCH INTERESTS

Numerical modeling, inverse problems, machine learning, stress state reconstruction

## EDUCATION

### KAUST

**King Abdullah University of Science and Technologies**, Thuwal, Saudi Arabia

PhD student at Seismic Modeling and Inversion group, Feb 2016 - now

- Affiliated to Earth Science and Engineering department (ErSE) and Extreme Computing Research Center (ECRC)
- Advisor: Prof. Daniel Peter

**Selected coursework:** Introduction to HPC (AMCS312 by Prof. David Keyes), Technology Innovation and Entrepreneurship (EID210 by Gordon McConnell), Computational Geophysics (ErSE390C by Prof. Daniel Peter), Inverse Problems (ErSE213 by Prof. Ibrahim Hoteit)

Grade: 3.67/4.00

### Paris VII, Diderot

**Institut de Physique du Globe de Paris**, Paris, France

M.Sc., Exploration geophysics, Sep 2014 - Jun 2015

- Thesis topic: *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

**Selected coursework:** advanced electromagnetic methods, rock physics, information theory and signal processing, seismic wave propagation, advanced numerical modelling, long wavelength velocity estimation, fine-scale elastic parameter estimation, quantitative seismology

Grade: 14.15/20.00 (*grade Magna Cum Laude*), Ranked #1 Master thesis

### MSU

**Moscow State University by Lomonosov**, Moscow, Russia

M.Sc., Physics of the Earth, Sept 2009 - Feb 2015

- Thesis topic: *Analytical solutions of the task on a viscous flow in a lithosphere with the accounting of superficial exogenous processes and an isostasy*
- Advisor: Dr. Yuriy L. Rebetskiy, Head of lab of tectonophysics at IPE RAS

Grade: 4.0/5.0

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CONFERENCE  
TALKS

- |  |           |
|--|-----------|
| Oral report, Tectonophysical conference at IPE, Moscow   | Oct 2013  |
| <i>Tectonophysical reconstruction of stress field in crust of Western Europe by seismological data of EMMA database.</i>                             |           |
| Oral report, Tectonophysical conference at IPE, Moscow   | Apr 2014  |
| <i>Analytical solution for viscous flows in the crust beneath caves and uplifts.</i>   |           |
| Oral report, Tectonophysical conference at IPE, Moscow   | Oct 2015  |
| <i>An accurate finite difference operator for synthetic seismogram calculation for 2D transversely isotropic elastic media with regular meshing.</i> |           |
| Oral report, EAGE 2017, Paris  | June 2017 |
| <i>Variance-based salt body inversion.</i>   |           |

TEACHING  
EXPERIENCE

- |  |             |
|--|-------------|
| <b>Tutor</b>   | 2010 - 2016 |
| Physics, math, informatics and chemistry for high-school |             |

WORK  
EXPERIENCE

- |   |             |
|---|-------------|
| MSU union committee of students   | 2009 – 2013 |
| <b>Coordinator of Transport Card department</b>   |             |
| <ul style="list-style-type: none"> <li>• Communicated with Moscow metropolitan</li> <li>• Work planning, schedules etc.</li> </ul>  |             |
| <b>Event manager</b>  |             |
| <ul style="list-style-type: none"> <li>• Organized Bowling Cup for Physics Department at MSU</li> <li>• Arranged meetings of students with outstanding individuals</li> </ul> |             |

REFERENCES

*Available upon request*