

---

## Objective

To acquire a full-time research position in the oil and gas industry in the field of exploration geophysics.

---

## Education

Graduation **PhD in Geophysics**, Colorado School of Mines, Golden, CO, USA.

-May 2018 (expected) *Joint wavefield tomography of P-wave surface reflection and VSP data in transversely isotropic (TI) media*

Sep 2008–June 2010 **MSc in Exploration Geophysics**, Moscow State University, Moscow, Russia, GPA 4.90/5.

*Feasibility of using ultra-shallow multicomponent reflection data in engineer seismology*

Sep 2004–June 2008 **BSc in Exploration Geophysics**, Moscow State University, Moscow, Russia, GPA 4.75/5.

*Application of the attribute analysis to the ultra-shallow seismic reflections*

---

## Experience

Aug. 2012–Present **Research Assistant**, Center for Wave Phenomena, Colorado School of Mines.

*Conducting research with Dr. Ilya Tsvankin on wave-equation based migration velocity analysis and full-waveform inversion in TI media*

Aug. – Dec. 2017 **Teaching Assistant**, Center for Wave Phenomena, Colorado School of Mines.

*My role involves correcting the homework as well as providing help to the students regarding the theoretical and implementation aspects. I will also give a set of lectures as a part of the Seismic Data Processing course (topics are to be determined)*

Jun. – Aug. 2016 **Intern**, Total, Pau, France.

*Methodology and software development for Q-estimation from P-wave surface reflection data*

Aug. 2015 **Visiting Researcher**, Tongji University, Shanghai, China.

*Elastic wavefield extrapolation, mode separation, full-waveform inversion*

Jan. – May. 2014 **Teaching Assistant**, Center for Wave Phenomena, Colorado School of Mines.

*My role involved correcting the homework as well as providing help to the students. I also taught a part of the Seismology-II course for five weeks (Integral solutions for scattering at a plane boundary, stationary-phase and saddle-point methods for reflected wavefields, basics of complex analysis)*

Aug. 2008 – Dec. 2011 **Senior Geophysicist, team leader**, LLC Deco-Geophysics, Moscow, Russia.

*QC, processing, and interpretation of GPR and seismic data for subsurface model building*

Jul. 2007–Apr. 2009 **Research Assistant**, Geophysics Department, Moscow State University, Moscow, Russia.

*Acquisition, processing, and interpretation of shallow seismic data and laboratory measurements*

---

## Languages (ILR scale)

English **Full professional proficiency, level 4**

French **Limited working proficiency, level 2**

Russian **Native proficiency, level 5**

---

## Computational Skills

Software    Madagascar, Mines Java Toolkit, SU, Matlab.  
Programing    C, Java, Fortran90, Python, Jython.

---

## Publications

**Li, V.**, Tsvankin, I., and Alkhalifah, T., 2016, Analysis of extended images for VTI media: *Geophysics*, Vol. 81 (3), S139-S150.

**Li, V.**, Wang, H., Tsvankin, I., Díaz, E., and Alkhalifah, T., 2017, Inversion gradients for acoustic VTI wavefield tomography: *Geophysics*, Vol. 82 (4), WA55-WA65.

---

## Conference Abstracts

**V.Li**, I.Tsvankin, and T.Alkhalifah, 2015, Analysis of RTM extended images for VTI media: SEG Technical Program Expanded Abstracts: pp. 519-524.

**V.Li**, I.Tsvankin, and T.Alkhalifah, 2016 Anisotropy Signature in P-wave Extended Images for VTI Media: 78th EAGE Conference and Exhibition (marked as one of the top 30 presentations).

**V.Li**, H.Wang, I.Tsvankin, E.Díaz, and T.Alkhalifah, 2016 Gradient computation for VTI acoustic wavefield tomography: SEG Technical Program Expanded Abstracts: pp. 419-424 (Award of Merit for Best Student Poster Paper).

**V.Li**, H.Wang, I.Tsvankin, E.Díaz, and T.Alkhalifah, 2016 Gradient computation for VTI acoustic wavefield tomography: 17th International Workshop on Seismic Anisotropy: pp. 63-65

**V.Li**, I.Tsvankin, T.Alkhalifah, and A.Guitton, 2017 Acoustic VTI wavefield tomography of P-wave surface and VSP data: SEG Technical Program Expanded Abstracts: pp. 421-425 (to be presented).

---

## Research Interests

- Anisotropic wavefield extrapolation
- Image-domain wavefield tomography
- Full-waveform inversion
- Least-squares RTM
- Inversion algorithms
- High-performance computing

---

## AWARDS

- 2017    **Award of Merit for Best Student Poster Paper Presented at the 2016 SEG Annual Meeting.**
- 2013-2014    **John Anderson's Exxon Mobil Scholarship.**
- 2009-2010    **Rudyak's Fund Individual Scholarship.**
- 2007-2008    **ConocoPhillips Excellence in Education Award.**

---

## Interests

- 1995-2012    **Chess.**
  - International FIDE rating 2284
  - Moscow State University Team Champion in 2006
  - Bronze medal in Moscow Youth U-16 Championship in 2003
  - Bronze medal in Moscow Youth U-14 Championship in 2001