

Curriculum Vitae

Dr. Pavlo Kuzmenko

Personal data:

Date & place of birth: September 12th 1983, Grebenka, Ukraine

Position: Associate professor in Seismic methods, Geophysical Department

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Education and professional experience:

Since 01.09.2015: Associate Professor at Taras Shevchenko National University of Kyiv, Institute of Geology, Department of Geophysics;

01.09.2009-31.08.2015: Assistant of Professor at Taras Shevchenko National University of Kyiv, Institute of Geology (Faculty of Geology), Department of Geophysics;

01.11.2006-31.08.2009: PhD student at Taras Shevchenko National University of Kyiv, Faculty of Geology, Department of Geophysics. The title of PhD thesis: “The method of special processing-interpretation of seismic data with AVO-analysis and inversion application (on the example of oil and gas exploration tasks)”;

01.09.2004 – 31.06.2006: Ms.Sc student at Taras Shevchenko National University of Kyiv, Faculty of Geology, Department of Geophysics. The title of Masterwork thesis: “Development and Application of the Optimal Technique of Multiples Attenuation (on the example of the Black Sea Seismic Data)”;

Since 2007: Geoscientist at Scientific Research Institute “Naukanaftogaz”. Seismic methods application for hydrocarbon exploration;

During 2003: Young researcher at The Institute of Geophysics (IGP) of the National Academy of Sciences of Ukraine. Electrical properties investigation of rocks;

2002-2004: First State Courses of Foreign Languages (English);

2000 – 2004: BSc degree in Geology, Faculty of Geology.

Teaching experience:

1. Basics of Seismic theory and methods
2. Seismic data processing
3. Seismic acoustic
4. Scientific-research practice, Seismic Inversion and AVO-analysis

5. Geophysical methods
6. Near Surface Geophysics
7. Geological interpretation of geophysical data (seismic data interpretation)
8. Field practice of Geophysical methods (seismic acquisition)
9. Special practical (seismic methods)
10. Students and young professionals mentoring

Professional Courses:

- Schlumberger – Theory and practice of reservoir properties modeling with full suite application of data: well logs, core data, seismic, gravity data, magnetic data, production data. – 2008.
- AAPG - Participant of Imperial Barrel Award Program -2009
- Technology seminar of Paradigm Geophysical - 2009
- Tutkovsky institute: Application of Seismic Anisotropy in the Oil and Gas Industry – 2010.
- Tutkovsky institute: Seismic processing and imaging – 2010.
- Tutkovsky institute: Well seismic, the current state, perspectives and direction of development – 2011.
- Technology seminars of LandMark 2007, 2011.

Software skills

- ProMax2D-3D/SeisSpace (LandMark) – Seismic processing software;
- Focus, Echos, GeoDepth (Paradigm Geophysical) – 2D/3D seismic processing and velocity modeling software, Pre-Stack Time/Depth Migration;
- Petrel (Schlumberger) – Seismic interpretation and modeling software;
- Hampson-Russell (CGG Veritas) – AVO/AVA/AFI –Seismic Inversion software;
- Tesseral 2D – Full wave seismic modeling software;

Society Membership

- European Association of Geophysics and Engineers
- American Association of Petroleum Engineers
- Society of Exploration Geophysicist
- Correspondent member of Ukrainian Oil and Gas Academy.

Publications: 55+ publications available in Ukrainian, Russian, Polish, EAGE and AAPG scientific papers.

Some selected papers:

- Kuzmenko P., Prodayvoda G., Tyshchenko A. “Specialized inversion of integrated geological-geophysical data” Extended abstract of the 72nd EAGE Conference & Exhibition , Barcelona - 2010.
- Kuzmenko P., Gryshchuk P., Tyshchenko A., Arkhipova S. “Isostatic gravitational modeling and seismic interpretation for the Kerch part of the Black Sea”. AAPG European Region Annual Conference, October 17-19, 2010 Kiev, Ukraine.

- Kuzmenko P., Tyshchenko A., Dovzhok T., Vakarchuk S. “Seismic inversion for lithology and reservoir properties prediction of lower-Maykopian sediments within Subbotina field”. 73rd EAGE Conference & Exhibition. Extended abstract, Vienna 2011.
- Tyshchenko A., Kuzmenko P. “Determination the seismic data processing features of the Kerch Shelf (the Ukrainian Black Sea) for AVO-analysis application.” 73rd EAGE Conference & Exhibition. Extended abstract, Vienna 2011.
- Vyzhva S., Prodaivoda G., Kuzmenko P., Kozionova O. “AVO-analysis of seismic data of crystalline basement deconsolidation zone (results of mathematical modeling)”. [GeoInformatics, Kiev 2012](#).
- Tsybulskiy V., Kuzmenko P. “Development of initial geological model verification technique” 75th EAGE Conference & Exhibition, London 2013
- Kuzmenko P., Tyshchenko A., Dovzhok T., Vakarchuk S., Tsybulskiy V. “Simultaneous inversion and AVO-analysis for hydrocarbons prediction in middle-Maykopian sediments within Subbotina field”. 75th EAGE Conference & Exhibition, London 2013.
- Guravska K., Kuzmenko P. “Preparation of well-logging data before seismic inversion application”. 75th EAGE Conference & Exhibition, London 2013.
- Prodayvoda, G., Kuzmenko, P., Vyzhva, A. “Elastic symmetry and parameters of azimuthal anisotropy of seismic waves in sedimentary strata based on vertical seismic profiling data”. Reports of National Academy of Science of Ukraine, 2014, №11. (In Ukrainian)
- Prodayvoda, G., Kuzmenko, P., Vyzhva, A. “Numerical calculation of elastic constants for sedimentary strata in triclinic approximation based on vertical seismic profiling data”. Geophysical Journal, 2014. №3, Vol. 37.
- Kuzmenko P.M., Tyshchenko A.P., Sklyarov S.O., Kuzmenko T.M., Vyzhva S.A. A new algorithm of migration velocity computation and testing in a complex geological area. NAFTA-GAZ, ROK LXXII, Nr 3 / 2016, p.15-19. Poland