

Volodymyr Tesko

Ukrainian: **Володимир Теско**

CPF 238.916.478-16
RNM G283342-Q
E-mail tesko.math@gmail.com
Web-page imath.kiev.ua/~tesko
Curriculo [Lattes \(Brasil\)](#), [LinkedIn](#)



Research Interests

Infinite-dimensional and Stochastic Analysis, Functional Analysis and Probability Theory.

Degrees and Education

2006 *PhD in Mathematics*
Institute of Mathematics NAS of Ukraine, Kyiv, Ukraine
Thesis Advisor: [Yurij M. Berezansky](#)

2000 *MSc in Mathematics*
Taras Shevchenko National University "Chernihiv College",
Chernihiv, Ukraine

Positions

2016-2020 *Visiting Professor*
Center for Mathematics, Computation and Cognition,
[Federal University of ABC](#), Santo André, SP, Brasil

2004-2016 *Research Fellow, Senior Research Fellow*
Department of Functional Analysis,
[Institute of Mathematics NAS of Ukraine](#), Kyiv, Ukraine

2016-2016 *Senior Research Fellow*
Interdisciplinary Research Center of Complex Systems,
National Pedagogical Dragomanov University, Kyiv, Ukraine

2012-2014 *Visiting Professor*
Department of Mathematics and Physics, Taras Shevchenko
National University "Chernihiv College", Chernihiv, Ukraine

Grants, Scholarships and Research Visits

Norway	<i>Participation in program "International Research Staff Exchange Scheme (IRSES), FP7-People-2011-IRSES Project number 295164", University of Oslo</i>	2014 (3 months)
Germany	<i>DAAD Scholarship, University of Bielefeld (collaboration with Prof. Yuri Kondratiev)</i>	2011 (2 months)
Ukraine	<i>Scholarship of the Ukraine President for young scientists</i>	2009-2010 (24 months)
Ukraine	<i>Grant of the Ukrainian National Academy of Sciences for young scientists (with Kostiantyn Iusenko)</i>	2009-2010 (24 months)
Ukraine	<i>"The Talent, Inspiration, Work" award of the Ukrainian National Academy of Sciences for young scientists</i>	2009
Ukraine	<i>Scholarship of the Ukrainian National Academy of Sciences for young scientists</i>	2007-2008 (24 months)
Germany	<i>Research visit to Prof. Sergio Albeverio, "DFG Project 436 UKR 113/78/0-1", University of Bonn</i>	2005-2007 (4 months)

Participation in Committees (PhD Dissertations)

V. Statkevych, *Essentially infinite-dimensional differential equations*, PhD Thesis, National Technical University of Ukraine, Kyiv Polytechnic Institute, Kyiv, Ukraine, 2012.

Z. Mozhyrovska, *Spectral properties and hypercyclicity of composition operators on spaces of analytic functions on Banach space*, PhD Thesis, Pidstryhach Institute for Applied Problems of Mechanics and Mathematics, Lviv, Ukraine, 2008.

Publications

Articles

Yu. M. Berezansky and V. A. Tesko, *The investigation of Bogoliubov functionals by operator methods of moment problem*, Methods Funct. Anal. Topology **22** (2016), no. 1, 1-47.

V. Tesko, *The integration of operator-valued functions with respect to vector-valued measures*, Methods Funct. Anal. Topology **18** (2012), no. 3, 288-304.

V. Tesko, *One generalization of the classical moment problem*, Methods Funct. Anal. Topology **17** (2011), no. 4, 356-380.

V. Tesko, *Hilbert space-valued integral of operator-valued functions*, Confluentes Mathematici **2** (2010), no. 1, 135-157.

N. A. Kachanovsky and V. A. Tesko, *Stochastic integral of Hitsuda-Skorohod type on the extended Fock space*, Ukrainian Math. J. **61** (2009), no. 6, 873-907.

Yu. M. Berezansky and V. A. Tesko, *An approach to a generalization of white noise analysis*, Operator Theory: Advances and Application **190** (2009), 123-139.

V. Tesko, *A stochastic integral of operator-valued functions*, Methods Funct. Anal. Topology **14** (2008), no. 2, 132-141.

S. Albeverio, Yu. M. Berezansky, and V. Tesko, *A generalization of an extended stochastic integral*, Ukrainian Math. J. **59** (2007), no. 5, 645-677.

Yu. M. Berezansky and V. A. Tesko, *Orthogonal approach to the construction of the theory of generalized functions of infinitely many variables and the Poisson analysis of white noise*, Ukrainian Math. J. **56** (2004), no. 12, 1885-1914.

V. A. Tesko, *A construction of generalized translation operators*, Methods Funct. Anal. Topology **10** (2004), no. 4, 86-92.

V. A. Tesko, *Spaces appearing in the construction of infinite-dimensional analysis according to the biorthogonal scheme*, Ukrainian Math. J. **56** (2004), no. 7, 1166-1181.

Yu. M. Berezansky and V. A. Tesko, *Spaces of test and generalized functions related to generalized translation operators*, Ukrainian Math. J. **55** (2003), no. 12, 1907-1979.

Preprintes and Manuscripts

V. A. Tesko, *Spaces of test and generalized functions in Problems of Infinite Dimensional Analysis*, PhD Thesis, Institute of Mathematics NAS of Ukraine, Kyiv, 2005, 121 p. (in Ukrainian).

V. A. Tesko, *Spaces of test and generalized functions in Problems of Infinite Dimensional Analysis*, PhD Thesis abstract (summary), Institute of Mathematics NAS of Ukraine, Kyiv, 2005, 16 p. (in Ukrainian).

Yu. M. Berezansky and V. A. Tesko, *One generalization of an extended stochastic integral*, Preprint, Institute of Mathematics NAS of Ukraine, Kyiv, 2005, 34 p. (in Ukrainian).

Activities

Conferences and Schools

Vorokhta Ukraine	The conference "Modern problems of probability theory and mathematical analysis"	Feb 24-27 2016
Chernihiv Ukraine	The conference dedicated to 90-th anniversary of Yakov A. Roitberg	Sep 25 2015
Odessa Ukraine	The 10th Summer Schools "Algebra, Topology, Functional and Stochastic Analysis"	Aug 03-15 2015
Lviv Ukraine	International Conference dedicated to 120-th anniversary of Stefan Banach	Sep 17-21 2012
Kharkiv Ukraine	International Conference "Spectral Theory and Differential Equations" (Conference in honor of Vladimir A. Marchenko's 90th birthday)	Aug 20-24 2012
Laspi Ukraine	21st Crimean Autumn Mathematical School-Symposium. Kromsh-2010	Sep 18-29 2010
Kyiv Ukraine	Humboldt Kolleg "Mathematics and life sciences: possibilities, interacements and limits"	Aug 5-8 2010
Berlin Germany	VW Summer School 2010 "Infinite Dimensional Operator Matrices Theory and Applications"	Jul 5-9 2010

Kyiv Ukraine	Ukrainian Mathematical Congress – 2009 (dedicated to Nikolai N. Bogoliubov)	Aug 27-29 2009
Ivano-Frankivsk Ukraine	International Scientific Conference "Infinite Dimensional Analysis and Topology"	May 27 - Jun 1 2009
Timisoara Romania	22nd Conference in Operator Theory	Jul 3-7 2008
Lviv-Kozyova Ukraine	The Fifth Summer Schools "Algebra, Topology, Functional and Stochastic Analysis"	Aug 6-18 2007
Odessa Ukraine	International Conference "Modern Analysis and Application" (dedicated to Mark Krein)	May 27 - Jun 1 2007
Lviv-Kozyova Ukraine	The Fourth Summer Schools "Algebra, Topology, Functional and Stochastic Analysis"	Jul 17-29 2006
Kyiv Ukraine	International Conference "Modern Stochastics: Theory and Applications"	Jun 19-23 2006
Kyiv Ukraine	Bunyakovsky International Conference	Aug 16-21 2004

Organizing Committee Member

4th AMMODIT Conference "*Approximation Methods for Molecular Modelling and Diagnosis Tools*", Lviv, Ukraine, 2018.

International Conference of Young Mathematicians dedicated to the 100th Anniversary of Yu. O. Mitropolskiy, Kyiv, Ukraine, 2017.

Humboldt Kolleg "*The Education and Science and their Role in Social and Industrial Progress of Society*", Kyiv, Ukraine, 2014.

Humboldt Kolleg "*Mathematics and life sciences: possibilities, interlacements and limits*", Kyiv, Ukraine, 2010.

The International Conference "*Infinite Dimensional Analysis and Topology*", Ivano-Frankivsk, Ucrânia, 2009.

Editor of Books

Yu. M. Berezansky, Z. G. Sheftel, and G. F. Us, *Functional analysis*, Vol. I, 3rd Edition, Institute of Mathematics NAS of Ukraine, Kyiv, 2010, 512 pp.

Yu. M. Berezansky, Z. G. Sheftel, and G. F. Us, *Functional analysis*, Vol. II, 3rd Edition, Institute of Mathematics NAS of Ukraine, Kyiv, 2010, 372 pp.

Teaching Practice

Regular Courses taught at Federal University of ABC (2017-2020)

- [Functions of Several Variables](#) (1° Quadrimestre, 2020)
- [Functions of One Variable](#) (3° Quadrimestre, 2019)
- [Introduction to Ordinary Differential Equations](#) (2° Quadrimestre, 2019)
- [Linear Algebra](#) (3° Quadrimestre, 2018)
- [Functions of Several Variables](#) (2° Quadrimestre, 2018)
- [Introduction to Ordinary Differential Equations](#) (2° Quadrimestre, 2017)
- [Functions of One Variable](#) (1° Quadrimestre, 2017)

Regular Course taught at Taras Shevchenko National University "Chernihiv College"

- [Mathematical Analysis](#) (2001)

Special Courses taught at Taras Shevchenko National University "Chernihiv College"

- [Introduction to Functional Analysis](#) (2013-2014)
- [Introduction to Lebesgue Integration](#) (2012)

Supervision of Students (MSc Thesis)

Taras Shevchenko National University "Chernihiv College"

MSc: [Artur Mudritsky](#), [Ann Dobrycheva](#) (2014); [Dmitri Poryadin](#) (2013)

Editorial Board Member

Journal: [Methods of Functional Analysis and Topology](#)

Role: Executive Assistants

Software Skills

- Internet Technologies: HTML, CSS, PHP, MySQL, JavaScript
- TeX-world: LaTeX, BibTeX, most common packages
- Operating systems: Microsoft Windows family, Ubuntu, Android, IOS