

# Volodymyr Tesko



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## 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, Kiev, Ukraine  
*Thesis Advisor: Prof. Dr. Yuriy M. Berezansky*

2000                    *MSc in Mathematics*  
T.H. Shevchenko Chernihiv State Pedagogical University,  
Chernihiv, Ukraine

## Current Position

2016-Present        *Visiting professor*  
Center for Mathematics, Computation and Cognition,  
Federal University of ABC, Santo André - SP - Brasil

## Previous Positions

2004-2016            *Senior Research Fellow*  
Department of Functional Analysis, Institute of Mathematics NAS  
of Ukraine, Kiev, Ukraine

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

2012-2014,  
2001                    *Associate Professor*  
Department of Mathematics and Physics, T.H. Shevchenko  
Chernihiv State Pedagogical University, Chernihiv, Ukraine

## Grants and Awards

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Norway	<i>Member of the IRSES project number 295164,</i> <i>University of Oslo</i>	Jul-Oct 2014
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Germany	<i>DAAD Scholarship, University of Bielefeld</i>	Nov-Dec 2011
Ukraine	<i>Scholarship of the Ukraine President for young scientists</i>	2009-2010
Ukraine	<i>Grant of the Ukrainian National Academy of Sciences for young scientists (with Kostyantyn Yusenko)</i>	2009-2010
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
Germany	<i>Member of the DFG Project 436 UKR 113/78/0-1, University of Bonn</i>	2005-2007

## 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.

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

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

Volodymyr 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.

Volodymyr 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

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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

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Laspi Ukraine	21st Crimean Autumn Mathematical School-Symposium. Kromsh-2010	Sep 18-29 2010
Kyiv Ukraine	Humboldt Kolleg "Mathematics and life sciences: possibilities, interlacements 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 Conference "*Approximation Methods for Molecular Modelling and Diagnosis Tools*", Lviv, Ukraine, 2018

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

## Teaching Practice

Regular Courses taught at Federal University of ABC

- [Introdução às Equações Diferenciais Ordinárias](#)
- [Funções de uma Variável](#)

Regular Course taught at T.H. Shevchenko Chernihiv State Pedagogical University

- Mathematical Analysis (Calculus 1)

Special Courses taught at T.H. Shevchenko Chernihiv State Pedagogical University

- Introduction to Functional Analysis
- Introduction to Lebesgue Integration

## Student supervision

T.H. Shevchenko Chernihiv State Pedagogical University

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

## Professional Memberships

Kiev Mathematical Society

## Editorial board member

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

Role: Executive Assistants

## Software Skills

- Internet Technologies: HTML, CSS, PHP, MySQL, JavaScript
- TEX-world: (LA)TEX, BibTEX, most common packages
- Operating systems: Microsoft Windows family, Ubuntu, Android, IOS