Curriculum Vitae

Iksanov O.

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Gender: male *Born: 17.03.1972* *Citizenship: Ukrainian*

Scientific degree	*Doctor with habilitation in Physics and Mathematics*
Teaching degree	*Professor*
Position	*Head of Department*
Department	*Operations research*
Faculty	*Faculty of Computer Science and Cybernetics*
Part-time extra job	*Head of the project "Asymptotic properties of branching and evolution processes"*

Delivered classes:

This year	1. *Applications of Renewal Theory, bachelor, 4th year, lectures.* 2. *Elements of Renewal Theory, bachelor, 3rd year, lectures.* 3. *Operations research, bachelor, 2nd year, tutorials.*
In the past	1. *Discrete-time martingales, bachelor, 4th year, lectures.* 2. *Introduction to Theory of characteristic functions and Theory of infinitely divisible distributions, bachelor 3rd year, lectures.* 3. *Characteristic functions, bachelor, 4th year, lectures.* 4. *Positive class L distributions, bachelor and master, 4th and 5th years, lectures.* 5. *Infinitely divisible distributions, bachelor, 4th year, lectures.*

	6. *Basic notions of Stochastic Processes Theory, bachelor, 3rd and 4th years, lectures.* 7. *Statistics of shot noise processes with exponential response function, bachelor, 3rd and 4th years, lectures.* 8. *Integral transforms, master, 5th year (Technical University of Kyiv), lectures and tutorials.* 9. *Theory of Stochastic Processes, master, 5th year (Technical University of Kyiv), lectures and tutorials.* 10. *Statistics of autoregressive processes, bachelor, 3rd and 4th years, students seminar.* 11. *Majorization theory with a view towards Probability Theory, 4th year, students seminar.* 12. *Curious examples of stochastic processes, bachelor, 4th year, students seminar.* 13. *Linear algebra and analytical geometry, bachelor, 1st year, tutorials.* 14. *Calculus, bachelor, 1st year (Military institute), tutorials.*

Teaching and scientific experience:

Period	Description
01.2014-present	*Head of Operations Research Department, Faculty of Computer Science and Cybernetics*
	Taras Shevchenko National University of Kyiv
	Teaching, scientific and administrative work
12.2008- 01.2014	*Professor of Operations Research Department, Faculty of Cybernetics (became a full professor in 2011)*
	Taras Shevchenko National University of Kyiv
	Teaching and scientific work
11.2002-12.2008	*Associate Professor of Operations Research Department, Faculty of Cybernetics (obtained an Associate Professor degree in 2003.)*
	Taras Shevchenko National University of Kyiv
	Teaching and scientific work
	Сектор Освіта/Наука
09.1997-11.2002	*Teaching assistant of Operations Research Department, Faculty of Cybernetics (09.1997- 05.1998- quarter time job; 09.1998- 05.1999- half time job; 09.1999-11.2002- full time)*
	Taras Shevchenko National University of Kyiv
	Teaching and scientific work

Education and post-doctoral training:

2007	*Obtained habilitation in Physics and Mathematics (specialization*

	01.01.05-Probability Theory and Mathematical Statistics)
	Taras Shevchenko National University of Kyiv
	Habilitation thesis "Fixed points of inhomogeneous smoothing transforms" (adviser-Prof. O. Zakysylo)
1997-2000	*PhD study (completed in time)*
	Taras Shevchenko National University of Kyiv
	Obtained PhD degree with the thesis "Statistical problems related to the radioactive contamination process" (supervisor-Prof. O. Zakusylo)
1990-1995	*Specialist in Applied Mathematics degree (with honours)*
	Faculty of Cybernetics, Taras Shevchenko National University of Kyiv
	Diploma paper"Method of resolving functions" (adviser – Prof. A. Chykrii)

Personal skills:

Naming	Description
Mother tongue	*Ukrainian, Russian*
Other languages	*English-fluent*
Communication skills	*25-years long experience of teaching in Ukrainian. Delivered mathematical lectures in English (Poland, China). Presented yearly several talks at various conferences abroad. Haven't observed own communication issues for a long time.*
Organizational/ Administrative skills	*2002-2004- Deputy Head of selection board in Mathematics.* *2004-2005- Deputy Dean responsible for teaching* *Since 2012- I am organizing the seminar «Stochastics and its Applications».* *Since 2014- Head of Department .*
Digital skills	*Regularly work with TeX/LaTeX, occasionally with Microsoft Word.*
Areas of professional interests	*Probability Theory, Theory of Stochastic Processes, Analysis*

Additional info:

Naming	Description
10 main publications	1. *Renewal theory for perturbed random walks and similar processes. Probability and its Applications, Birkhauser, 2016 (monograph).* 2. *Perpetuities, branching random walk and selfdecomposability (in Ukrainian). KTI-PRINT: Kyiv, 2007 (monograph).* 3. *On a skew stable Lévy process (with A. Pilipenko), Stochastic*

	Processes and their Applications, 156 (2023), 44-68. 4. *On the derivative martingale in a branching random walk (with D. Buraczewski and B. Mallein), Annals of Probability, 49, no. 3 (2021), 1164-1204.* 5. *On nested infinite occupancy scheme in random environment (with A. Gnedin), Probability Theory and Related Fields, 177, no. 3-4 (2020), 855-890.* 6. *Functional limit theorems for renewal shot noise processes with increasing response functions. Stochastic Processes and their Applications. 123, no. 6 (2013), 1987-2010.* 7. *On distributional properties of perpetuities (with G. Alsmeyer and U. Roesler), Journal of Theoretical Probability. 22, no. 3 (2009), 666-682.* 8. *The Bernoulli sieve revisited (with A. Gnedin, U. Roesler and P. Negadailov), Annals of Applied Probability. 19, no. 4 (2009), 1634-1655.* 9. *A probabilistic proof of a weak limit law for the number of cuts needed to isolate the root of a random recursive tree (with M. Moehle), Electronic Communications in Probability. 12 (2007), 28-35.* 10. *Elementary fixed points of the BRW smoothing transforms with infinite number of summands, Stochastic Processes and their Applications. 114, no. 1 (2004), 27-50.*
Selected presentations	1. *Nested occupancy schemes in random environments. Workshop on Branching-Type Structures, Zurich, Switzerland, 2018 and Conference "Probability and Analysis 2022", Wroclaw, Poland, 2022.* 2. *Functional limit theorems for the profile of random recursive trees. Conference "Branching in Innsbruck", Innsbruck, Austria, 2019.* 3. *Functional limit theorems for divergent perpetuities and Galton-Watson processes with very active immigration. Conference "Journees MathSTIC 2019", Paris, France, 2019.* 4. *Perpetuities and beyond. Workshop "Recursive(ly defined) Stochastic Processes", Muenster, Germany, 2017.* 5. *On the rate of convergence of the Biggins martingale in supercritical branching random walks. Conference "Probability and Analysis", Bedlewo, Poland, 2017.* 6. *Fractionally integrated inverse stable subordinators. Seminars at Institute of Mathematics, University of Innsbruck (Innsbruck, Austria) and Laboratory of Mathematics, University of South Brittany (Vannes, France), 2017.* 7. *Functional limit theorems for the number of occupied boxes in the Bernoulli sieve. Conference "Probabilistic Aspects of Harmonic Analysis", Bedlewo, Poland, 2016.*

	8. *Invited open interdisciplinary lecture "Perpetuities in simple terms and examples" at Institute of Mathematics, University of Wroclaw, Wroclaw, Poland, 2015.*
Advisees	*Defended PhD students Negadailov P. (2010), Polotsky S. (2011), Marynych O. (2017), Rashytov B. (2022). Present PhD student Braganetz O. (started in 2021). I have served an advisor for O. Marynych habilitation thesis (2017).*
Grants and awards	1. *Ito prize for the best paper published in Stochastic Processes and their applications in 2021-2022 , 2023.* 2. *Appreciation note of the Rector of Taras Shevchenko National University of Kyiv, 2022.* 3. *Certificate of Merit given by Deputy Rector of Taras Shevchenko National University of Kyiv for essential personal contribution towards tutoring scientific youth, 2022.* 4. *Personal research grant by UC Berkeley Economics/Haas in the framework of U4U programme, 2022.* 5. *Appreciation note of the Rector of Taras Shevchenko National University of Kyiv, 2020.* 6. *Personal research grant funded by Ulam programme, Poland, 2019-2020.* 7. *Breastplate 'For the excellence in education' awarded by the Ministry of Education and Science of Ukraine, 2019.* 8. *Certificate of Merit given by the Ministry of Education and Science of Ukraine, 2017.* 9. *Appreciation note of the Ministry of Education and Science of Ukraine, 2016.* 10. *Taras Shevchenko Prize, 2014.* 11. *Certificate of Merit given by Taras Shevchenko National University of Kyiv for excellence in teaching and scientific work, 2014.* 12. *Personal research grant awarded by the President of Ukraine, 2012.* 13. *M. M. Bogolyubov's medal "For high level of scientific results in mathematics", 2009.* 14. *The best teacher of Faculty of Cybernetics, 2005.* 15. *Since 2003 yearly fellowship grants from European universities (Austria, France, Germany, Great Britain, Lithuania, the Netherlands, Lithuania, Poland) and Xidian University (China).*
Refereeing and reviewing duties	*I have been an Associate Editor of "The Scientific World Journal" (2012) and "Theory of Stochastic Processes" (2014-2022). I am an Associate Editor of "Theory of Probability and Mathematical Statistics" (https://www.ams.org/publications/journals/journalsframework/tpmsedit) and reviewer for Zentralblatt and AMS Mathematical reviews. I have refereed for a number of international journals. I have been a referee for*

	mathematical projects for Scientific Foundations of Chile, Poland and France.