Curriculum Vitae

O. Marynych

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Gender: male *Born: 04.08.1986* *Citizenship: Ukrainian*

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

Delivered classes:

This year	1. *Algebra and geometry, bachelors, 1-st year, lectures.* 2. *Algebraic structures, cryptography and data security, bachelors, 3-rd year, lectures.* 3. *Algebraic structures, cryptography and data security, bachelors, 3-rd year, tutorials.* 4. *Probabilistic analysis of algorithms, bachelors, 4-th year, lectures.*
In the past	1. *Algebra and geometry, bachelors, 1-st year, tuturials.* 2. *Elements of renewal theory, bachelors, 3-rd year, tutorials.*

Teaching and scientific experience:

Period	Description
10.2020 – present	*Professor of Operations Research Department, Faculty of Computer Science and Cybernetics (became a full professor in 2022)*
	Taras Shevchenko National University of Kyiv
	Teaching and scientific work
09.2017 - 09.2020	*Associate Professor of Operations Research Department, Faculty of Computer Science and Cybernetics (obtained an Associate Professor degree in 2017)*
	Taras Shevchenko National University of Kyiv
	Teaching and scientific work
06.2015 - 05.2017	*Alexander von Humboldt Fellowship*
	Westfälische Wilhelms Universität Münster (Germany)
	Scientific work
12.2014 - 08.2017	*Doctoral studies*
	Taras Shevchenko National University of Kyiv
	Scientific work
12.2013 - 11.2014	*Associate Professor of Operations Research Department, Faculty of Computer Science and Cybernetics*
	Taras Shevchenko National University of Kyiv
	Teaching and scientific work
01.2013 - 11.2013	*Assistant Professor of Operations Research Department, Faculty of Computer Science and Cybernetics*
	Taras Shevchenko National University of Kyiv
	Teaching and scientific work
01.2012 - 12.2012	*Postdoc*
	Technical University of Eindhoven
	Scientific work
09.2008 - 12.2011	*Teaching assistant at Operations Research Department, Faculty of Computer Science and Cybernetics*
	Taras Shevchenko National University of Kyiv
	Teaching and scientific work

Education and post-doctoral training:

05.2018 - 07.2018	*Guest Professorship*
	University of Innsbruck (Austria)
2017	*Obtained habilitation in Physics and Mathematics (specialization 01.01.05-Probability Theory and Mathematical Statistics)*
	Taras Shevchenko National University of Kyiv
	Habilitation thesis "Limit theorems for random processes with regeneration" (Adviser Prof. O. Iksanov)
2008 - 2011	*PhD study (completed in time)*
	Taras Shevchenko National University of Kyiv
	Obtained PhD degree with the thesis "Random recursive sequences" (supervisor Prof. O. Iksanov)
З 2003 по 2008	*Specialist in Applied Mathematics degree (cum laude)*
	Faculty of Cybernetics, Taras Shevchenko National University of Kyiv
	Diploma thesis "On the number of collisions in beta(2,b)-coalescents" (supervisor Prof. O. Iksanov)

Personal skills:

Naming	Description
Mother tongue	*Ukrainian, Russian*
Other languages	*English (fluent), German (moderate)*
Communication skills	*15-years long experience of teaching in Ukrainian. Delivered mathematical lectures in English (Austria, Poland, China, the Netherlands). Presented yearly several talks at various conferences abroad.*
Organizational/ Administrative skills	*Principal investigator in the scientific project "Asymptotic analysis of self-similar stochastic structures" (2017)*
Digital skills	*Regularly work with TeX/LaTeX, occasionally with Microsoft Word; I created and maintain several web-pages (Operations Research Department, Young Scientists Council (2014 - 2019 pp.)); programming skills in C++ and Python; work with Maple.*
Areas of professional interests	*Probability theory, theory of stochastic processes, convex and stochastic geometry, number theory*

Additional info:

Naming	Descritpion
10 main publications	1. *Generalised convexity with respect to families of affine maps (with Z. Kabluchko and I. Molchanov), Israel Journal of Mathematics, 2023.* 2. *Facial structure of strongly convex sets generated by random samples (with I. Molchanov), Advances in Mathematics, 395, 108086, 2022.* 3. *Lah distribution: Stirling numbers, records on compositions, and convex hulls of high-dimensional random walks (with Z. Kabluchko), Probability Theory and Related Fields, 184, no. 3-4, 969–1028, 2022.* 4. *Cones generated by random points on half-spheres and convex hulls of Poisson point processes (with Z. Kabluchko, D. Temesvari and C. Thäle), Probability Theory and Related Fields, 170, no. 3, 1021-1061, 2019.* 5. *Limit theorems for the least common multiple of a random set of integers (with G. Alsmeyer and Z. Kabluchko), Transactions of the American Mathematical Society, 372, no. 7, 4585–4603, 2019.* 6. *The collision spectrum of Lambda-coalescents (with A.Gnedin, A. Iksanov and M. Moehle), Annals of Applied Probability, 28, no. 6, 3857-3883, 2018.* 7. *A leader-election procedure using records (with G. Alsmeyer and Z. Kabluchko), Annals of Probability, 45, no, 6B, 4348-4388, 2017.* 8. *Asymptotics of random processes with immigration I: scaling limits (with A. Iksanov and M. Meiners), Bernoulli, 23, no. 2, 1233-1278, 2017.* 9. *Limit theorems for renewal shot noise processes with eventually decreasing response functions (with A. Iksanov and M. Meiners), Stochastic Processes and their Applications, 124, no.6, 2132-2170, 2014.* 10. *A Generalization of the Erdős–Turán Law for the Order of Random Permutation (with A. Gnedin and A. Iksanov), Combinatorics, Probability and Computing, 21, no. 5, 715-733, 2012.*
Selected presentations	1. *Scaling limits for random processes with immigration. International conference "Stochastic Processes in Abstract Spaces", Kyiv, Ukraine, 2015.* 2. *A leader-election procedure using records. International conference "12th Germany Probability and Statistics Days", Bochum, Germany, 2016.*

	3. *General Edgeworth expansions with applications to profiles of random trees. Spring school "Probability in mathematics and physics", Darmstadt, Germany, 2017.* 4. *Limit theorems for the least common multiple of a random set of integers. International Conference "Probabilistic Aspects of Harmonic Analysis", Bedlewo, Poland, 2018.* 5. *Sieving random iterative function systems. Spring school "Stochastic Geometry", Darmstadt, Germany, 2019.* 6. *Probabilistic solution of kinetic-type equations. International Conference "Branching in Inns- bruck", Innsbruck, Austria, 2019.* 7. *Lah distributions: properties and applications. International conference "Modern Stochastics: Theory and Applications V", Kyiv, Ukraine, 2021.* 8. *Generalised convexity and related limit theorems. International Conference "21st Workshop on Stochastic Geometry, Stereology and Image Analysis, Nesuchynene, Czech Republic, 2022.*
Advisees	*Defended PhD students: Verovkin G. (2021), Bohun V. (2022).*
Grants and awards	1. *Personal research grant by UC Berkeley Economics/Haas in the framework of U4U programme, 2022.* 2. *Gold Medal and Award of Ukraine Mathematics Competition 2020 for the best young Ukrainian mathematicians sponsored by The Shevchenko Scientific Society (USA) and The U.S.-Ukraine Foundation, 2020.* 3. *Scholarship of the Verkhovna Rada of Ukraine for young doctors of sciences, 2020.* 4. *The Ulam Stipend, Polish National Agency for Academic Exchange, 2020.* 5. *Prize of the President of Ukraine for young scientists, 2018.* 6. *LFUI Guest professorship at Faculty of Mathematics, Informatics and Physics, Leopold-Franzens- Universit ̈at Innsbruck (Austria), 2018.* 7. *Alexander von Humboldt Foundation (Germany), return fellowship, 2017–2018.* 8. *Grant of the President of Ukraine for young scientists, 2017.* 9. *Alexander von Humboldt Foundation (Germany), postdoctoral research fellowship, 2015–2017.* 10. *Taras Shevchenko National University of Kyiv, prize for the series of papers "Limit theorems for random discrete structures" (jointly with A. Iksanov), 2014.* 11. *National Academy of Sciences of Ukraine, award for young scientists for the series of papers "Limit theorems for regenerative random structures", 2014.*

	12. *National Academy of Sciences of Ukraine, award for the best student paper "On the number of collisions in beta(2,b)-coalescents", 2008*
Refereeing and reviewing duties	*I am and Associate Editor in "Theory of Probability and Mathematical Statistics" and "Modern Stochastics: Theory and Applications" and reviewer for AMS Mathematical reviews. I have refereed for a number of international journals.*