



Mykola Vovchanskii

Researcher at the Department of the theory of stochastic processes,
Freelancer (Data Science)

Date of birth, place of birth:

26/02/1988, Rivne, Ukraine

Education

- 2011-2014 Post graduate course at the Institute of Mathematics of the NAS of Ukraine
- 2006-2011 Master degree in Informatics, Bachelor degree in Applied Mathematics, Physical Technical Institute, National Technical University of Ukraine 'Kyiv Polytechnic Institute'

Employment

- November 2014 – October 2015, since October 2018 Researcher at the Department of the theory of stochastic processes, Institute of Mathematics, National Academy of Sciences of Ukraine
- since 2011 Freelancer (Data Science, Natural Language Processing, Statistics)
- February 2014 – August 2017 Mathematician and Operations Analyst at Jooble
- September 2012 – December 2013 Tutor at National Technical University of Ukraine 'Kyiv Polytechnic Institute'
- October 2011 – December 2011 Tutor, Visiting Researcher at Utrecht University, Netherlands

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Current scientific interests

Stochastic flows of Brownian particles, stochastic differential equations, natural language processing

Publications

1. On continual trees arising as trajectories of systems of coalescing diffusion particles, with V.Kliuchnikov, *Mathematics today*, Issue 14, 2008
2. Iterated logarithm law for sizes of clusters in Arratia flow, with A.A.Dorogovtsev, A.Gnedin, *Theory of Stochastic Processes* 18(2), 2013
3. Diet-induced changes in brain structure and behavior in old gerbils, with K.Goncharova, G.Skibo, (...), S.G.Pierzynowski, *Nutrition and Diabetes*, 5(6):e163, 2015
4. Arratia flow with drift and Trotter formula for Brownian web, with A.A.Dorogovtsev, 'Communications on Stochastic Analysis', Volume 12, № 1, 2018.
5. Convergence of solution of SDEs to Harris flows, submitted to *Theory of Stochastic Processes*

Participation in conferences

1. 19-th International Conference of Young Scientists "Lomonosov", Moscow, Russian Federation, April 9-13, 2012
2. National Scientific Conference "Modern Problems of Probability Theory and Analysis, Vorokhta, Ukraine, February 25 – March 3, 2013
3. 20-th International Conference of Young Scientists "Lomonosov", Moscow, Russian Federation, April 8-13, 2013
4. International Mathematical Conference "Bogolyubov Readings-2013. Differential Equations, Theory of Functions, and Their Applications", Sevastopol, Ukraine, June 23-30, 2013
5. 11th International Vilnius Conference on Probability Theory and Mathematical Statistics, Vilnius, Lithuania, June 30 – July 4, 2014
6. Yu.V.Linnik Centennial Conference "Analytical Methods in Number Theory, Probability Theory and Mathematical Statistics", St.Petesburg, Russian Federation, September 14-18, 2015
7. International Conference "Stochastic Equations, Limit Theorems and Statistics of Stochastic Processes", dedicated to the 100th Anniversary of I.I.Gikhman, Kyiv, Ukraine, September 17-22, 2018