Aleksandr Zimin

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D.O.B. August 24, 1997

Education

2021–now	**PhD in Mathematics**, *Massachusetts Institute of Technology*.
2019–2021	**Master degree**, *Faculty of Mathematics, HSE University*, Moscow.

- GPA: 10/10
- My term paper On existence of measure with given marginals supported on a hyperplane won the first price at Student Research Paper Competition held by HSE University

2019–2021	**Master degree**, *Mathematical and Theoretical Physics, Skolkovo Institute of Science and Technology*, Moscow.

- GPA: 5/5

2015–2019	**Bachelor degree**, *Faculty of Mathematics, HSE University*, Moscow.

- Diploma with the Highest Distinction
- GPA: 9.79/10
- Thesis: Duality Theory for Multistochastic Monge-Kantorovich Problem – Final Grade: 10

Other education

2017–2019	**Professional retraining diploma**, *Department «Computer science», Yandex School of Data Analysis*, Moscow.

- 672 lecture hours on a broad range of theoretical and applied Computer Science

Internships

2018	**Yandex**, Backend API development for advertisement algorithms.
2019	**Huawei**, Adaptation of face recognition model for the European market.

Research experience

2018–	Research assistant, International Laboratory of Stochastic Algorithms and High-Dimensional Inference, HSE University
2019, 2021	Teaching assistant for the course "Linear programming", Faculty of Mathematics, HSE University

Programming skills

C++	Learning C++, Parts 1/2, *Yandex School of Data Analysis*, Grade: 5/5
Python	Programming in Python, *Yandex School of Data Analysis*, Grade: 5/5
	Basics of Programming in Python-2, *HSE University*, 10/10
Numerical Methods	Fast Methods for PDEs and IEs, *MIT Mathematics*, A+
ML	Skills in different fields of machine learning like deep learning, reinforcement learning, natural language processing, and computer vision.

Working papers under revision

Boerma J., Tsyvinski A., Zimin A.P., Bunching and Taxing Multidimensional Skills. **Revision requested by Econometrica**, 2022 DOI: 10.3386/w30015

Kolesnikov A., Sandomirskiy F., Tsyvinski A., Zimin A.P., Beckmann's approach to multi-item multi-bidder auctions. arxiv: 2010.07263

Boerma J., Tsyvinski A., Zimin A.P., Sorting with Team Formation. **Revision requested by Journal of Political Economy**, 2021 DOI: 10.3386/w29290

Zimin A.P., On existence of measure with given marginals supported on a hyperplane. arXiv: 2010.07263

Other working papers and publications

Gladkov N.A., Kolesnikov A.V., Zimin A.P., The multistochastic Monge-Kantorovich problem / **Journal of Mathematical Analysis and Applications**. 2020 DOI: 10.1016/j.jmaa.2021.125666

Gladkov N.A., Zimin A.P., An explicit solution for a multimarginal mass transportation problem. **SIAM Journal on Mathematical Analysis**, 2020 DOI: 10.1137/18M122707X

Gladkov N.A., Kolesnikov A.V., Zimin A.P., On multistochastic Monge–Kantorovich problem, bitwise operations, and fractals. **Calculus of Variations and Partial Differential Equations.** 2019 DOI: 10.1007/s00526-019-1610-4

Participation in conferences

April 2023	Speaker at the Fields Insitute Colloquium on Applied Math, University of Toronto
April 2023	Speaker at the Seminar Series in Actuarial Science and Financial Mathematics, University of Waterloo
August 2022	Speaker at the Microeconomic Theory Workshop, Yale University
July 2021	International Conference on Machine Learning, Baltimore
May 2021	New Frontiers in High-Dimensional Probability and Applications to Machine Learning, Sochi
February 2020	Math of Machine Learning, Sirius University of Science and Technology
October 2019	Recent advances in mass transportation, HSE
March 2019	Workshop on optimal transport and applications, Université de Toulouse
February 2019	New frontiers in high-dimensional probability and statistics, HSE

Participation in olympiads

2015	International Mathematical Olympiad — national team member, silver medal
2011–2015	All-Russian Mathematical Olympiads — prize-winner
2018	ACM-ICPC (The International Collegiate Programming Contest) – World Finals, team HSE Bluebell
2015	Romanian Master in Mathematics — national team member, gold medal
2013	China National Olympiad in Mathematics — national team member, gold medal