

# Aleksandr Zimin

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D.O.B. August 24, 1997

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## Education

- 2021–now **PhD in Mathematics**, *Massachusetts Institute of Technology*.
- 2019–2021 **Master degree**, *Faculty of Mathematics, Higher School of Economics, 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, Higher School of Economics, Moscow*.
  - Diploma with the Highest Distinction
  - GPA: 9.79/10
  - Thesis: **Duality Theory for Multistochastic Monge-Kantorovich Problem** – Final Grade: 10

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## 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

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## Research experience

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

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## Programming skills

- C++ Learning C++, Part 1, *Yandex School of Data Analysis*, Grade: 5/5  
Learning C++, Part 2, *Yandex School of Data Analysis*, Grade: 5/5
- Python Programming in Python, *Yandex School of Data Analysis*, Grade: 5/5  
Introduction into Python, *Higher School of Economics*, Grade: 10/10  
Basics of Programming in Python-2, *Higher School of Economics*, 10/10
- ML Skills in different fields of machine learning like deep learning, reinforcement learning, natural language processing, and computer vision.

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## 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](https://doi.org/10.3386/w30015)

Boerma J., Tsyvinski A., Zimin A.P., Sorting with Team Formation. **Revision requested by *Journal of Political Economy***, 2021 DOI: [10.3386/w29290](https://doi.org/10.3386/w29290)

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## Other working papers and publications

Kolesnikov A., Sandomirskiy F., Tsyvinski A., Zimin A.P., Beckmann's approach to multi-item multi-bidder auctions. [arxiv: 2010.07263](https://arxiv.org/abs/2010.07263)

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](https://doi.org/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](https://doi.org/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](https://doi.org/10.1007/s00526-019-1610-4)

Zimin A.P., On existence of measure with given marginals supported on a hyperplane. [arXiv: 2010.07263](https://arxiv.org/abs/2010.07263)

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## Participation in conferences

- November 2018 Optimal Transport and Applications, SNS, Pisa
- December 2018 Bielefeld University
- February 2019 New frontiers in high-dimensional probability and statistics, HSE
- March 2019 Workshop on optimal transport and applications, CIMI-Université de Toulouse
- July 2019 Eight or Nine Talks on Contemporary Optimal Transport Problems, IRMA, Strasbourg
- October 2019 Recent advances in mass transportation, HSE
- February 2020 Math of Machine Learning, Sirius University of Science and Technology, Sochi
- May 2021 New Frontiers in High-Dimensional Probability and Applications to Machine Learning, Sochi

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## 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