

Pavel Zakharov

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Education

TU Dortmund, Germany, Faculty of Mathematics, PhD Program;	2023 – present
Higher School of Economics, Moscow, Russia, Data Science, Math in Machine Learning, Master Program;	2021 – 2023
Higher School of Economics, Moscow, Russia, Faculty of Computer Science, Applied Mathematics and Informatics, Bachelor Program;	2017 – 2021
Physical-Mathematical School 2007, Moscow, Russia, Graduated with Golden Medal.	2017

Research

Journal publications

SIAM Journal on Discrete Mathematics, P. Berenbrink, A. Coja-Oghlan, C. Cooper, T. Götze, L. Hintze, P. Zakharov, <i>WalkSAT is linear on random 2-SAT.</i>	2025
Russian Mathematical Surveys, D. Shabanov, P. Zakharov, <i>Fractional colourings of random hypergraphs.</i>	2023
Trudy MIPT, D. Shabanov, P. Zakharov, <i>Asymptotic normality of the giant component size in a random bipartite graph.</i>	2023
Dokl. RAN, D. Shabanov, P. Zakharov, <i>On the maximal cut in a random hypergraph.</i>	2021

Preprints

A. Chatterjee, A. Coja-Oghlan, N. Müller, C. Riddlesden, M. Rolvien, P. Zakharov, H. Zhu, <i>The number of random 2-SAT solutions is asymptotically log-normal.</i> arXiv.2405.03302	2024
A. Chatterjee, A. Coja-Oghlan, C. Greenhill, V. Pfenninger, M. Rolvien, P. Zakharov, K. Zampetakis, <i>The random k-SAT Gibbs uniqueness threshold revisited.</i> arXiv.2506.01359	2025

Conference talks

22nd International Conference on Random Structures and Algorithms, <i>Vienna, Austria.</i>	2025
28th International Conference on Randomization and Computation, <i>London, United Kingdom.</i>	2024
European Conference on Combinatorics, Graph Theory and Applications, <i>Online.</i>	2021

Selected Teaching

Convex Programming and Approximation Algorithms 2023/24
Higher School of Economics, Faculty of Computer Science

Mathematical Statistics 2022/23
Probability Theory
Theoretical Computer Science
Theory of Computation
Higher School of Economics, Faculty of Computer Science

Algorithms and Data Structures 2021/22
Probability Theory and Mathematical Statistics
Theoretical Computer Science
Higher School of Economics, Faculty of Computer Science

Service and outreach

Peer reviewing and subreviewing
Annals of Applied Probability, Combinatorica, Random Structures and Algorithms,
STACS

Mathematics summer school “Kostroma open” 2017
Invited teacher

Project programme in mathematics & theoretical computer science, “Sirius” 2022
Educational Center
Mentor

Other

Ilya Segalovich scholarship 2021-2022
Awarded by Yandex