

Nikita Karagodin

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EDUCATION

2023 - now	Ph.D. in Computer Science from Massachusetts Institute of Technology	
2021 - 2023	M.Sc. in Mathematics from Saint Petersburg State University	GPA: 3.93/4.0
2017 - 2021	B.Sc. in Mathematics from Saint Petersburg State University	GPA: 5.0/5.0
2019 - 2022	Data Science program at Computer Science Center	GPA: 4.67/5.0

ACHIEVEMENTS

• International Mathematical Competition, grand first prize (top 1.5%)	2020
• Student research competition Möbius Contest, second prize	2021
• Student research competition by HSE & Siberian.Capital, first prize	2022
• International Mathematical Olympiad, silver medal (top 19%)	2016
• Russian Mathematical Olympiad, gold medal (top 4%)	2016

WORK EXPERIENCE

MIT LIDS, Research Assistant	September 2023 - now
– Research project on clustering effect for transformers	
Huawei Technologies, R&D team, Senior Engineer	December 2022 - July 2023
– Designed and implemented experiments using the OpenFL framework to validate research findings and explore new avenues of Federated Learning	
EIMI, Researcher	June 2021 - August 2023
– Research project on product quantization	
Pinely (HFT firm), R&D team, Analyst Intern	April 2022 - August 2022
– Analyzed market data using Machine Learning techniques to extract meaningful insights	
– Explored cross-exchange arbitrage strategies for crypto markets	
St. Petersburg State University, Researcher	June 2021 - August 2023
– Research project on random processes and fields with applications to data analysis	
Lyceum 239 (St. Petersburg), Math center, Volunteering Teacher	2017 - 2021

PUBLICATIONS

N.Karagodin, **A limit theorem for the last exit time over a moving nonlinear boundary for a Gaussian process**, Probability and Mathematical Statistics, 2022, Vol. 42, Fasc. 2, pages 195 - 217

N.Karagodin, **Energy efficient approximations of Brownian Sheet**, Zapiski POMI (rus), 2022, Vol. 515, pages 141 - 155

N.Karagodin, M.Lifshits, **On the distribution of the last exit time over a slowly growing linear boundary for a Gaussian process**, Theory of Probability and Its Applications, 2021, 66:3, 337–347

INVITED TALKS

On the distribution of the last exit time over a slowly growing boundary for a Gaussian process, 2021
New Trends in Mathematical Stochastics, EIMI