ALEXANDER YUGAI

Curriculum Vitae

Department of Mathematics and CS
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Github *Telegram*

Achievements

2022 – 2023 **Gazprom "Mathematical progression" scholarship**.

2021 **Diploma of the 3rd degree of the Moscow Mathematical Olympiad**, *https://mmo.mccme.ru/2021/nagr.htm*.

2021 **Diploma of the 3rd degree of the Lomonosov Tournament in mathematics**, *https://turlom.olimpiada.ru/gramota2020?grade=11&region=78*.

Education

2021 –present **Bachelor of Mathematics**, *Saint Petersburg State University*, St. Petersburg.

2019 – 2021 **Natural Science Lyceum**, *St. Petersburg Polytechnic University*, St. Petersburg.

Experience

2024 **Natural Science Lyceum**, *St. Petersburg Polytechnic University*, St. Petersburg, Math Teacher.
https://github.com/alexander28144/NSL-math-8

Publications

Educational practice

2024 **Stationary random sequences**, (in Russian), scientific supervisor: prof. Youri A. Davydov .
https://github.com/alexander28144/CV/blob/master/_2%20(13).pdf

2023 **Homotopy limits in triangulated categories**, (in Russian), scientific supervisor: prof. Mikhail V. Bondarko.
https://github.com/alexander28144/CV/blob/master/Coursovik%20(7)%20(1).pdf

Skills

Programming Languages **Python**(advanced), **C++**, Haskell

Machine learning Linear regression, decision trees, RL, neural networks. I attended a course of lectures by S. Nikolenko(https://logic.pdmi.ras.ru/ sergey/teaching/mlspsu2023.html). I'm also reading his book on Deep Learning right now(https://habr.com/ru/companies/piter/articles/346358/).

Algorithms and CS graph algorithms, parallel programming, Turing machines, finite state machines, Complexity theory, Information theory, linear programming

Probability **martingale theory**, **theory of random process**, financial mathematics, convergence of probability measures, **ergodic theory**