

ILYA SUDAKOV

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OBJECTIVE AND SKILLS

Third year student of HSE program "Applied Math and Computer Science", looking for research

Maths skills: Statistics, Probability, Matrix computations, basics of Machine Learning, Calculus

Hard skills: Python (Numpy, Scipy, Pandas, Sklearn, Torch), C++, SQL

Soft skills: Time management, leadership, responsibility

EDUCATION

Higher School of Economics, Moscow
Bachelor of Applied Math and Computer Science

Enrolled: September 2021 — Expected: June 2025
Current rating GPA 9.4

Yandex SHAD, Moscow
Reinforcement learning, Python

since September 2023

Phystech-Lyceum, Dolgoprudny
Student of Math thread

2020 - 2021

EXPERIENCE

Teaching assistant
Faculty of Computer Science, HSE

since September 2022
Moscow, Russia

- Math Statistics, Calculus, C++, Algorithms and Data Structures.

Product Analyst
Yandex Summer School

Summer 2023
Moscow, Russia

- Optimized the issuance of promotional codes for users.

PROJECTS

Global gradient optimization methods
Project Link: <https://github.com/sudakovcom/global-optimization>

HSE, 2023

- Research oriented, developed an algorithm for finding global minimum of continuous multimodal function among given set.

Riemannian Optimization for Link Prediction Using Tensor Decompositions
Project Link: <https://github.com/sudakovcom/RTuckER>

HSE, 2024

- Research oriented, approach of using structure of TuckER model for optimization on Riemannian manifold of tensors of fixed mlranks.

Maths projects

HSE, 2023

- background removal using SVD, using ALS in recommend systems, fast Fourier transform of image and etc.

C++ projects

HSE, 2022

- Image processor, file archiver, custom smart pointers and etc.

HONORS

Programming

- **Kaggle**, **Codeforces** - sometimes participate
- **Yandex algorithm trainings 3.0** - winner
- **Yandex ML trainings**
- **Timus online judge** - 215 solved problems

Physics

- **International Zhautykov Olympiad** - gold winner
- **International Experimental Physics Olympiad** - gold winner
- **All-Russian Olympiad** - prize winner, best theory solution