



Alexey Shmelev

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Education

2019–2023 **Bachelor of Applied Mathematics (Major). Bioinformatics (Minor)**, *Higher School of Economics*, Moscow, GPA – 7.97.

Experience

2021–2022 **Internship**, *International Laboratory of Statistical and Computational Genomics*, Higher School of Economics, Moscow.

I was developing method for detecting adaptive introgression of two ancestry populations using various deep learning models. Also, I was given grant from the Center of Artificial Intelligent of Higher School of Economics to continue my research. It is still under development. [Source code](#).

2021–present **Physics Teaching Assistant**, *School of Electronic Engineering*, Higher School of Economics, Moscow. I was grading students' tests and providing colloquiums.

2022 **Summer School of Machine Learning in Bioinformatics**, *Faculty of Computer Science*, Higher School of Economics, Moscow.

We were discussing different approaches of applying AI for detecting gene expression, building TADs etc.

Computer skills

Languages Python, R, C++, SQL, PHP, JS, HTML, CSS, Bash

ML (libs) NNI, Tensorflow, Tensorflow Addons, Pytorch, XGBoost

HPC Slurm

CI/CD Docker, VMware Workstation Pro

Web Apache, MySQL, PhpMyAdmin

UI/UX Qt, PyQt

Design Blender, Adobe Premiere Pro, Adobe After Effects, Davinci Resolve

OS Windows, Ubuntu, CentOS

Languages

English **Intermediate**

Russian **Native**

Read articles and express thoughts

Interests

- Piano
- Tennis
- Motion Design
- Video editing
- Taking pictures