



# 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*

## Side interests

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