# Vadim Smirnov

## Personal Information


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|---|---|
| Telegram | @Fulmenius |
| E-mail | thefulmenius@gmail.com |
| GitHub | https://github.com/Fulmenius |
| Age | 23 |
| Location | Moscow |


## Education

09/22 - Present **M.Sc. Quantum Gravity and Mathematical Physics**, *Moscow State University, Institute for Theoretical and Mathematical Physics*, Moscow, Russian Federation, Took extra courses on Deep Learning and Natural Language Processing with neural networks.

09/22 - Present **Algorithmic Bioinformatics**, *Bioinformatics Institute*, An online professional retraining program., Probability Theory and Statistics, Algorithms in Bioinformatics, Introduction to Molecular Biology, Practice in Bioinformatics, Molecular Evolution, Molecular Phylogeny, Python, Introduction to Machine Learning
Graduation project: Predicting SARS-CoV 2 antibody escape with Machine Learning

09/18 - 07/22 **B.Sc. Physics**, *Saint-Petersburg State University, Department of Physics, Chair of High Energy and Elementary Particle Physics*, Saint-Petersburg, Russian Federation
Bachelor Thesis: Quantisation of strong gravitational pp-waves

Other Education **Free University of Moscow**, Genetics, Summer-Fall 2022, General Algebra, Fall 2022/Spring 2023, Albert Einstein and Revolutions in the Physics of the XX Century, Spring 2022

## Languages and Skills

### Software and IT

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| Python | standard library, NumPy, SciPy, Pandas, sklearn, PyTorch |
| Machine Learning | Experience at applying classical ML techniques and DL (using PyTorch) to biological data. |
| Bioinformatics | Basic experience in variant calling, genome annotation, de novo genome assembly, analysis of SNPs in human genome, metagenomics, transcriptome analysis, phylogeny tree reconstruction, skyline methods, all using GUI and command line tools. |
| Linux | Proficient user |

### Languages

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| English | C1 | **IELTS 7.5** |
| German | B2/C1 | **Test DaF 4455** |

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| French | Subjective B1, read and listen fluently |
| Russian | Native |

## Hobbies

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| Literary translation | I sometimes translate verses, short stories and articles from English, German and French |
| History of science and technology | And history in general, especially the Interbellum |