

# Vladislav Temkin

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## Personal Details

Date of Birth 19.09.2001  
Sex Male  
Citizenship Russian Federation

## Education

2019–Present **Bachelor**, *HSE University, Landau Institute for Theoretical Physics*, Moscow - Russia, *Theoretical Physics*.  
GPA: 9.43/10.0, Minor in Bioinformatics  
2015–2019 **High School**, *School №1619*, Moscow - Russia, *Engineering*.  
GPA: 5.0/5.0

## Experience

2020 **Academic Assistant**, *National Research University – Higher School of Economics*,  
September– Moscow - Russia.  
December I checked students' solutions for home assignments on linear algebra and helped them understand the course.  
2021 **Academic Assistant**, *National Research University – Higher School of Economics*,  
September– Moscow - Russia.  
December The same as in 2020 but calculus instead of linear algebra.  
2020–2021 **Olympiad Organizer**, *National Research University – Higher School of Economics*,  
Moscow - Russia.  
Two years in a row I created set of physics problems for high school juniors for "Vyshaya Proba" olympiad (one of olympiads for high school students) and checked students' solutions.  
November **Math and Physics Teacher, Head of Physics Department**, *Impulse*, Moscow -  
2019–April Russia.  
2020 Impulse is a school preparing students for exams and olympiads. In 2019 I taught math and physics to high school students in the context of exams and olympiad preparation. In 2020 I prepared syllabus and home assignments for various physics for high school students courses as the physics department head.  
2018–2019 **Project Student**, *National Research Nuclear University - Moscow Engineering Physics Institute, Department of Plasma Physics*, Moscow - Russia.  
At MEPhI I worked on a project aimed to grow different allotropes of carbon using the CVD method.  
2017 **Project Student**, *National Research University - Higher School of Economics, Laboratory for Functional Safety of Spacecraft and Systems*, Moscow - Russia.  
December–  
2018 June I studied the principles of the work of CubeSats.

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- 2022 **Research Student**, *National Research University - Higher School of Economics, Clifford Algebras Research Group*, Moscow - Russia.  
I research properties of 3d and 4d Dirac-Hestenes equation.
- 2021 August **Participant**, *Landau Institute for Theoretical Physics, Summer School on Theoretical Physics*, Chernogolovka - Russia.  
I started working on Monte-Carlo simulation of slow evolution of 2-dimensional spin-glass.
- 2022 August **Participant**, *Practicum on theoretical physics 2022*, Online.  
During the practicum I started working on naturally occurring quantum search. Our goal was to show that spatial search for defects on various lattices based on quantum walks works in a very close manner to Grover's search.

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## Achievements

- 2020 Math-I Theoretical Minimum  
2021 Mechanics Theoretical Minimum  
2022 Math-II Theoretical Minimum  
2022 Field Theory Theoretical Minimum  
2022 Quantum Mechanics Theoretical Minimum  
2021 MIPT Theoretical Physics Olympiad, 3 Degree Diploma  
2022 MIPT Theoretical Physics Olympiad, 2 Degree Diploma  
2021 International Physicists' Tournament (National Stage), 3 Degree Diploma  
2021 International Theoretical Physics Olympiad for Undergraduate Students, 14th rank  
2022 International Theoretical Physics Olympiad for Undergraduate Students, pending results

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## Languages

- Russian Mother tongue  
English Fluent, TOEFL iBT 104  
Spanish Elementary

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## Computer Skills

- Languages and packages Python, C++, Wolfram Mathematica, Julia