

Vladislav Temkin

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 n-dimensional 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. We continued work after the practicum.

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

Languages

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

Computer Skills

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