

Vladimir Shadymov

Curriculum Vitae

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DOB: the 2nd of December, 1997

Education

2016–2020(expected) **Moscow Institute of Physics and Technology (State University), Moscow (Russia)**, Department of Molecular and Chemical Physics (B.Sc. at Applied Mathematics and Physics).

Learned subjects:

Mathematics: analytic geometry, linear algebra, differential and integral calculus, field theory, harmonic analysis

Physics: general physics (mechanics, thermodynamics and molecular physics, electrodynamics, optics), theoretical mechanics, chemical physics

Chemistry: inorganic chemistry, organic chemistry, analytical chemistry

Computer Science: algorithms and data structures

Average grade: 9.3/10; ranking top-5% of the university

Work experience

Tutor. Worked with gifted children as mathematics and physics teacher.

Achievements

2015, 2016 **All-Russian Olympiad, Regional Stage.** Prize-winner in Physics

2015, 2016 **PhysTech Olympiad.** Prize-winner in Physics and Mathematics

2015, 2016 **All-Siberian Olympiad.** Prize-winner in Physics

2015 **All-Russian Olympiad, Regional Stage.** Prize-winner in Chemistry

Interests

- Applied Physics (conducting experiments, processing experimental results)
- Algorithms and Data Structures

Scientific skills

Laboratory skills Basic physical methods. Basic routine chemical methods (solutions preparing, titration, pH measurement), photometric method of analysis

Computer skills

Python Scripting, data analysis (least-squares fitting, spline interpolation, numerical differentiation and integration) and visualisation. Worked with such packages as NumPy, SciPy, Matplotlib, Pandas, Bokeh. Familiar with Nosetests for Python.

- C++ Worked with STL, Google Test framework. Familiar with .NET Framework. Developed program (1k strings) for calculus in quaternions. For more details, see the repository: <https://github.com/vladimirshadymov/quaternions>.
- Other Linux/Windows fluent user, extensive experience with Microsoft Office-like software. Worked with Git. Familiar with \LaTeX .

Languages

- Russian Native Speaker
English Intermediate
German Elementary

Hobbies & Extra-curricular activities

- Sports Swimming, volleyball, cycling
- Team work Organized with co-students a point for holding the PhysTech olympiad in February 2017
- Leadership Lead a group of campers in a week-long ski trip for 100km under the Arctic Circle in The Republic of Karelia, as a semi-final stage of competition "Reach the North Pole". (February 2016)