

# Vladimir Shadymov

## Curriculum Vitae

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DOB: the 2<sup>nd</sup> 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

### Education and Training

January 2018 Mathematics and Python for data analysis by Moscow Institute of Physics and Technology & Yandex on Coursera ([Certificate](#))

### 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

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## 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  $\text{\LaTeX}$ .

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## Languages

- Russian Native Speaker
- English Intermediate
- German Elementary

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## 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)