Vladimir Shadymov

Curriculum Vitae

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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). By the June 2018 will be completed 4 semesters (2 years) at the university.
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
Other: ecology
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

Work experience

September 2017 - January 2018 **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

2016 **All-Russian Olympiad, Regional Stage**. Prize-winner in Computer Science

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

Interests

- 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 programm (1k lines) for calculus in quaternions. 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   Participated in preparation of venue for the PhysTech olympiad (with co-students), 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)