

Fedoriaka Dmitriy

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Education

- 2010-2013 – Dnipropetrovsk Lyceum of Information Technology, Ukraine.
- 2013-2017 – Moscow Institute of Physics and Technology (State University), Russian Federation.
Faculty of Control and Applied Mathematics.
Pursued degree: B.S., Applied Physics and Mathematics.
- Currently studying at Yandex Data Analysis School (Moscow).

Work Experience

2014-2016 – Distance Physical-Technical School at Moscow Institute of Physics and Technology.
Teacher (duties: checking of works of pupils at Math, Physics and Informatics)

Skills

- Languages: English, Russian, Ukrainian.
- Programming languages: python, C++, C, C#, Java.
- Databases: SQL.
- Web: backend (python, django), design (HTML, CSS), JavaScript.
- Operating systems: Linux, Windows.
- LaTeX.
- CUDA (C# + Cudafy).
- Git, SVN.

Interests

- Machine Learning & Data Analysis – currently working on B.S. Thesis in this area: “Building and visualization of hierarchical topic models”.
- Hardware engineering: designed and programmed simple devices based on AVR microcontrollers.
- Competitive programming, problem setting.

Achievements

- 2011 – won Gold medal at XVI International Astronomy Olympiad.
- 2012 – won Silver medal at XVII International Astronomy Olympiad.
- 2013 – won Bronze medal at 25th International Olympiad in Informatics.
- 2014 – 15th place at Moscow Subregional of NEERC (ACM ICPC).

Projects

- <https://github.com/bigartm/visartm> – topic models visualization.
- <http://fedimser.github.io/virtualcity.html> – modelling of the city traffic in real time.
- <http://fedimser.github.io/mibis.html> - modelling of the living cells.
- <http://fedimser.github.io/aldyparen.html> - exploring algebraic fractals with GPU.

Research

- Mixtures of models of vector autoregression in the problem of time series forecasting (2016, [article](#)).
- Now working on visualization of hierarchical topic models in [BigARTM](#) project.