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## Education

Sept. 2020 – Present **Moscow Institute of Physics and Technology, MIPT**, Master student, 1th year.  
Department of Innovation and High Technologies  
Field of study: Applied Mathematics and Physics  
Specialisation: Machine Learning and Data Analysis, Banking Information Technologies ([SberTech](#))

Sept. 2016 – July. 2020 **Moscow Institute of Physics and Technology, MIPT**, Bachelor student.  
Department of Control and Applied Mathematics  
Field of study: Applied Mathematics and Physics  
Specialisation: Computer Science, State Research Institute of Aviation Systems ([FSUE SRIAS](#))  
Supervisor: [Mikhail Okhotnikov](#), FSUE SRIAS, mao@gosniias.ru  
GPA: 7.01/10.00

Main courses:

- |                                       |                                   |
|---------------------------------------|-----------------------------------|
| o Probability Theory                  | o Functional Analysis             |
| o Stochastic Processes                | o Calculus, Complex Analysis      |
| o Mathematical Statistics             | o Linear and Abstract Algebra     |
| o Machine Learning                    | o Algorithms, Discrete Analysis   |
| o Image Processing in control systems | o Computational Mathematics       |
| o Optimization Methods                | o General and Theoretical Physics |

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## Projects & Practical Experience

Aug. 2019-July 2020 **Bachelor's thesis. Studying of reliability indicators of onboard software.**  
Algorithm development for assessing the complexity of testing software modules of onboard software and getting a hybrid metric using machine learning methods. Obtaining an indirect assessment of software reliability.  
Used: C, Python (Numpy, pandas, matplotlib, seaborn, scikit-learn, XGBoost and etc)  
Supervisor: Mikhail Okhotnikov, [FSUE SRIAS](#)

Oct-Nov. 2019 **Application of the theory of complex systems to analyze and summarize information on the cost of researching a company's fields using machine learning methods.**  
Educational practice on digitalization of processing and interpretation of geological and geophysical information, [Sirius](#) & [Gazpromneft STC](#)  
The algorithm for predicting the profitability of exploration work depending on the complexity of the field and the oil recovery factor in it.  
Used: Python (Numpy, pandas, matplotlib, seaborn, scikit-learn, XGBoost, PyTorch)  
Project mentor: [Boris Belozarov](#), [Gazpromneft STC](#)

June. 2020 **Classifier for data with large gaps.**  
Entrance task to the Center for engineering and technology of MIPT & Gazpromneft STC.  
The algorithm for determination of rock type and detection of oil-saturated layers in the well.  
Used: Python (Numpy, pandas, matplotlib, scikit-learn, XGBoost)

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## Technical skills

|                       |   |
|-----------------------|---|
| Programming           | Python, C   |
| Scientific Libraries  | NumPy, SciPy, pandas, matplotlib, scikit-learn, XGBoost |
| Operating Systems     | Windows, Linux  |
| Professional software | L <sup>A</sup> T <sub>E</sub> X, Git, Docker, Hive      |
| Database              | MS SQL  |

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## Languages

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|----------|----------------------------|
| English  | Upper-Intermediate (B2/C1) |
| Français | Elementary (A1)            |
| Russian  | Native                     |

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## Honors and Awards

- 2016 – Present **Grant Recipient of the President of the Russian Federation, direction: science.**
- 2018 **Absolute winner of Hackaton for commercialization within the All-Russian student's school on nanotechnology, Sochi.**
- 2015 **3d place on IEPHO (Experimental Physics Olympiad) in the team competition of high school, Sochi.**
- 2015 **Prize-winner on All-Russian Olympiad on Technology, St. Petersburg.**
- 2013 – 2016 **Prize-winner on All-Russian Olympiad on Physics(region), Kirov.**
- 2015 – 2016 **Prize-winner of different school olympiads in physics, maths: MEPHI Nuclear University Olympiad "Rosatom", Saint-Petersburg State University olympiad, MIPT's Olympiad "Phystech".**

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## Extracurricular Education

- Online Courses:
- o Mathematics and Python for Data Analysis (by Yandex and MIPT in Coursera)  
<https://coursera.org/share/c1d76f7c388ce1ccfcd22efcf7fadf8d>
  - o Supervised Learning (by Yandex and MIPT in Coursera)  
<https://coursera.org/share/249d118c30ae0f51ac1bd87dd387efe9>
  - o Unsupervised Learning (by Yandex and MIPT in Coursera)  
<https://coursera.org/share/a3e418dbec745741d4dbf3a4ea48735d>
  - o Basics of statistics (by Bioinformatics Institute in Stepik)  
<https://stepik.org/cert/495198?auth=registration>
  - o Neural Networks & Computer Vision (by Samsung Research Russia in Stepik)  
*In the progress*

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## Hobbies & Extra Activities

- Skiing, Cooking
- Mathematics tutor for schoolchildren
- Student travel organizer