

# Alenicheva Alisa

SKOLTECH STUDENT

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## Summary

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Current Master Student in Skoltech, Moscow, Russia.

Areas of science interests - Machine Learning in Drug Discovery and Natural Language Processing.

## Education

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### MIPT (Moscow Institute of Physics and Technologies)

Moscow, Russia

B.S. IN APPLIED MATHEMATICS AND PHYSICS

Thesis: Mathematical model of light distribution inside layer of microalgae liquid

Sep. 2014 - Exp. Aug. 2018

- Got an Abramov scholarship which is given for academic achievements
- Graduated with Honors

### Skoltech (Skolkovo Institute of Science and Technology)

Moscow, Russia

M.S. IN INFORMATION TECHNOLOGY AND ENGINEERING

Projects:

Sep. 2018 - PRESENT

- **3D Segment Mapping using Data-Driven Descriptors**  
Labelling dataset of 3D pointclouds from KITTI dataset, extraction feature vectors from 3D pointclouds via autoencoder and classification of objects based on these vectors.
- **Thesis: Predicting the acute toxicity of organic molecules using 3D-convolutional neural networks**  
Transformation of SMILES organic molecules notation into 3D cube; reducing sparsity via convolution with specific kernels; data augmentation with molecule conformers; predict toxicity via 3D-CNN architecture: multi-label classification task (Tox21 dataset), multi-label regression task.

## Work Experience

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### National Research Center «Kurchatov Institute»

Biotechnology Department

Moscow, Russia

RESEARCH ASSISTANT

Oct. 2014 - Jun. 2019

- Implemented software for reading and collecting data from sensors system of Bioreactor with LabView development environment
- Constructed the Arduino-based control unit of Bioreactor lighting
- Created a mathematical model of light distribution inside the Bioreactors with different geometries

### Mobile TeleSystems (MTS)

Artificial Intelligence Department

Moscow, Russia

TRAINEE

Jun. 2019 - Sep. 2019

- Entity Linking for Russian language
- Collected dataset for Entity Disambiguation in Russian language based on Wikipedia dump
- Created prototype of software marking entities in a piece of text

## Honors

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2019 **1st Place, Unilever Chain Reaction Hack** - data analyst, designer

Moscow, Russia

2019 **1st Place, The Arctic Circle Hakathon** - data analyst, designer

Salekhard, Russia

# Skills

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Programming languages	<ul style="list-style-type: none"><li>• Python (Advanced): Pytorch, Scikit-learn, Pandas, Matplotlib, Numpy, MPI4py</li><li>• C (Basic)</li><li>• LaTeX (Basic)</li><li>• PL/SQL (Basic)</li><li>• Matlab (Basic)</li></ul>
	<ul style="list-style-type: none"><li>• Machine Learning</li><li>• Natural Language Modelling and Processing</li><li>• Deep Learning</li><li>• Bayesian Methods of Machine Learning</li></ul>
Relevant Coursework (Skoltech)	
Languages	<ul style="list-style-type: none"><li>• Russian (Native)</li><li>• English (Advanced)</li></ul>
Design	<ul style="list-style-type: none"><li>• Adobe Photoshop</li><li>• Adobe Illustrator</li><li>• InkScape</li><li>• Figma</li></ul>
Tools	<ul style="list-style-type: none"><li>• Linux</li><li>• Git</li><li>• ssh</li></ul>

# Hobbies and Interests

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In my spare time I enjoy participating in hackathons. It gives me an opportunity to meet specialists from different areas of my work interests, and also get experience of team collaboration for creating projects aiming to solve business or social problems with additional motivation given by the spirit of competitiveness. At the same time each project provides various challenges not only for my professional skills of computer scientist, but also for my admiration of painting and design.