

EXPERIENCE**Research Fellow****Russian Quantum Center****January 2018 — Present**

- Quantum Computing
- Quantum Machine Learning

Teaching Assistant**Laboratory of Neural Networks and
Deep Learning****March 2017 — Present**

- Responsible for preparing practical and theoretical assignments for the course of Reinforcement Learning and theoretical assignments for the course of Natural Language Processing with the number of 100+ enrolled students each.

Research Assistant**Laboratory of Functional analysis
of the Genome****June 2016 — Present**

- Text mining, Natural language processing, Keyword extraction, Machine learning algorithms. As an intermediate result the new method of keywords extraction using Information Theory proposed ([ResearchGate](#)).

Data Scientist**Sberbank-Technology****August — October 2017**

- Responsible for NLP projects. Participated in preparing the datasets and building baselines for competition [Sberbank Data Science Journey](#) which is based on [SQuAD](#).
- Developed an analogue of Amazon Mechanical Turk to improve experience of colleagues who evaluated the quality of collected datasets (Python, Flask).

EDUCATION**Moscow, Russia****Moscow Institute of Physics and
Technology****September 2014 —
August 2018 (expected)**

- B.Sc. in Computer Science and Physics, [Department of Innovation and High Technologies](#)
- Coursework for the state qualification exam in Physics at MIPT: [“Molecular dynamics”](#) [[Code](#)]
- Undergraduate Coursework: “Advanced toolkit for biomedical texts processing”

TECHNICAL EXPERIENCE**Projects**

- [Frontopolar](#) (2017). Applied Reinforcement Learning for Stock Trading. State of the art results were reached. Different approaches were tested including Q-learning and Recurrent Reinforcement Learning.

Contributed to Open source

- [Gensim](#) - fixed issue #671
- [yandexdataschool/Practical_RL](#) - PR #12

SKILLS

- **Russian:** native, **English:** fluent, **German:** basics (A2)
- **Programming languages:** Python, C/C++, bash, R, experienced with SQL
- **Python libraries:** numpy, sklearn, pandas; **for NLP:** NLTK, Gensim; **for Deep Learning:** TensorFlow, PyTorch
- Experimented with RaspberryPi and Arduino. [Projects](#)
- Started [“MIPT Deep Learning Club”](#) to discuss and share ideas on deep learning topics

PUBLICATIONS**“Generative Adversarial Networks (GANs): Engine and Applications”**
Medium Story**August 2017**

TEACHING

Deep Reinforcement Learning

October 2017 — Present

course at MIPT, based on rll.berkeley.edu/deeprlcourse/
[Practical assignments](#)

Deep Learning in Natural Language Processing

March 2017 — Present

course at MIPT, based on cs224n.stanford.edu
[Practical assignments](#)

ADDITIONAL EDUCATION

"Summer school on Bayesian
 Methods in Deep Learning"

[DeepBayes Summer School](#)

August 26 — 30, 2017

"Big Data in Bioinformatics"

[Bioinformatics Summer School](#)

July 31 — August 5, 2017

"Natural Language Processing"

[DeepHack Lab](#)

September — December 2016

HACKATHONS

Aalto University, Helsinki

[Junction](#)

November 24 — 26, 2017

- [LegalEngine](#) - website/[telegram chat-bot](#)/email notification system, “qqmbr” team member, challenge by [Castrén & Snellman](#)
- Proposed solution makes the client-attorney interaction easier with the use of telegram chat-bot and email notifications, the attorney's work and billing more transparent to the client
- Python, Flask library, html, css

EPFL, Lausanne

[LauzHack](#)

November 11 — 12, 2017

- 1st place in challenge by [SGS](#), “NN:Nerds” team member, [Presentation](#), [Devpost](#)
- Solution allows quick access to the main concepts found in documents
- Python, IBM Watson API for Natural Language Understanding

Phystechpark, Moscow

[mABBYlity](#)

October 7 — 8, 2017

- 4th place, “App in the Restaurant” iOS application, [Demo](#), [Presentation](#)
- App allows to recognise entities from restaurant menus using smartphone’s camera and translates them. ABBYY Real-Time Recognition SDK, ABBYY Lingvo API and Spoonacular API were used
- Python, Flask library

Skolkovo Moscow School of
 Management, Moscow

[Neurocampus](#)

September 22 — 24, 2017

- 2nd place, [@SenseOfSpeech_bot](#) telegram-bot, [Presentation](#)
- Proposed solution allows to extract emotions from user’s recorded speech. Also it helps to train selected emotion with samples from TED talks
- Python, Telegram API

ITMO, Saint Petersburg

[BioHack](#)

March 3 — 5, 2017

- Python, Text Mining, parsing the records from [PubMed](#) and [UMLS](#).
- Analysis of research trends of chemical compounds and diseases during period of 1990-2015 using parsed information from PubMed database. [Project](#)