

# Roman Klovov

Graduate Student at Skolkovo Institute of Science and Technology  
Junior Developer at SBDA Group

Sadovaya-Chernogryazskaya 13/3  
105064 Moscow, Russia  
+7 915 355 7115  
roman.klovov@skoltech.ru

Born: 01/21/1993  
Nationality: Russian



## Education

- Since 2015      **Skolkovo Institute of Science and Technology**  
Pursuing MSc degree in Information Science and Technology program  
Preparing thesis and paper on the topic of recognition of 3D models.
- Various deep learning related research projects:
    - experiments with DQN and A3C models for reinforcement learning
    - speeding up convolutional networks with selective channel computations
    - guessing solutions to partial differential equations with neural networks
  - Capstone project "DroneBag": designed and prototyped an airbag for drones
- 2011-2015      **Moscow Institute of Physics and Technology (State University)**  
Faculty: General & Applied Physics  
Bachelor's Degree with Honours in Applied Mathematics & Physics.  
Thesis: "Selection of quasi elastic neutrino scattering events in the near detector of NOvA experiment"
- Research project on the topic "Statistical bootstrapping in high energy physics"
  - Interface development using WinAPI for computer tomography
- 2009-2011      **Physico-mathematical Lyceum 30 (Saint-Petersburg)**  
Extra classes in programming: algorithms, OpenGL graphics

## Working Experience

- Since 2016      **SBDA Group**  
Development of chatbot platform for goal-oriented dialogs
- Work in progress: convolutional network based search engine for image queries
  - Development of interactions with the APIs of social networks
  - Prototyping conversational support chatbot module
  - Experiments with DSSM neural network model for web query classification
- 2014-2015      **Joint Institute for Nuclear Research**  
Research in neutrino physics on NOvA experiment, Fermilab, USA
- Various analyses of simulated and real data from detectors
  - Classification of neutrino interaction events based on the real data
  - Preparation of the Bachelor Thesis

## Activities & Interests

- Giving workshop talks and curating team projects at machine learning schools "GOTO School" and hackatons "GOTO Hack"
- Frequent attendant of Data Science events and seminars held at "Yandex"
- Read deep learning papers and arxiv reports every day
- Worked in Career Assistance Department at MIPT: interacted with companies and universities, organized Career Days for students
- 10+ years of experience in mountain skiing
- Passionate about my music library
- Finished a musical school and still occasionally play guitar

## Hard Skills

- Solid Python skills, decent C/C++, basic Java and R
- Knowledge of basic data analysis python instruments: numpy, scipy, pandas, scikit-learn
- Vast experience with deep learning frameworks: Theano+Lasagne, Tensorflow, basic Caffe
- Databases experience: HDF5, SQL, MongoDB
- Web programming skills: HTTP, javascript, Ajax, tornado web applications
- Advanced LINUX user, Git and Docker experience, L<sup>A</sup>T<sub>E</sub>X user

## Soft Skills

- Languages: Russian(native), English(advanced), German(beginner)
- Ability to learn quickly
- Interest in working hard on difficult problems