# STANISLAV BELIAEV

**Machine Learning Engineer/Researcher**

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## RELEVANT EXPERIENCE

### Software Engineer Intern

**Google**

Aug. 2019 – Present  Mountain View, CA

- Working as part of the Google Accelerated Science (**GAS**) team in **Google Research**.
- Exploring new approaches for **Semi-Supervised Classification** and **Representation Learning** tasks run on the internal dataset of biological samples of Malaria disease.

### Deep Learning Research Intern

**Nvidia**

May 2019 – Aug. 2019  Santa Clara, CA

- Working as part of the **Deep Learning Applications** team.
- Developed high-level **Deep Learning framework**, built on top of **PyTorch** with seamless multi-GPU support, mixed precision mode and whole bunch of other features (see Project 2).
- Developed and implemented a novel model for **Speech Recognition**, which incorporates the usage of prior knowledge for speeding-up train time and boosting accuracy (see Paper 1).

### Machine Learning Engineer

**Neuromation**

Mar. 2018 – Feb. 2019  Saint-Petersburg, RU

- Contributed major part in developing a framework for **Domain Adaptation** task and proposed new extensions to existing methods, resulting in a published paper (see Paper 2).
- Took part in various research and product-oriented projects, including: **Drug Discovery** (with Insilico, see Paper 3 and Project 1), **Domain Adaptation**, **Face Recognition** and **Object Detection** of garbage for pollution reducing.

### Software Engineer Intern

**Jet Brains**

Jun. 2017 – Sep. 2017  Saint-Petersburg, RU

- Developed internal system for source code submissions clustering, finding similarities and smart tips for learning process, based on **Representation Learning** for trees.

## PAPERS

1. <Paper on Speech Recognition task as a result of Nvidia internship>. Pre-print, 2019
2. Beliaev et. al. Unsupervised Domain Adaptation: a Comparative Study and Source Entropy Maximization for Reverse Gradient Models. Pre-print, 2018
3. Molecular Sets (MOSES): A benchmarking platform for molecular generation models. Published, 2018

## SKILLS

| | |
|---|---|
| **PLs** | **Python**, C/C++, Bash, Java, Kotlin, Scala, R, Scala |
| **Technologies** | Git, Linux, SQL, GDB, **Docker**, **PyTorch**, **Tensorflow**, Spark |
| **Interests** | **Computer Vision**, NLP, **Generative Models**, RL, Big Data |
| **Papers notes** | `https://github.com/stasbel/papers` |
| **Languages** | Russian (Native), **English (Advanced)** |

## EDUCATION

### Master of Machine Learning and Data Analysis

**National Research University Higher School of Economics**

Sep. 2018 – Present

### Bachelor of Computer Science

**Saint-Petersburg National Research Academic University**

Sep. 2014 – Jun. 2018

### Irregular Student

**Yandex School of Data Science**

Sep. 2018 - Present

### Attender

**Summer School on Bayesian Methods in Deep Learning by HSE's Research Group**

Aug. 2017, Aug. 2018

## NOTABLE PROJECTS

1. **Molecular Sets (MOSES): A benchmarking platform for molecular generation models**
   - `https://github.com/molecularsets/moses`
     **200+** stars, **40+** forks
   - Implemented several popular **molecular generation** models, along with full train/test pipeline and overall project structure.
2. **Neural Modules (NeMo): A toolkit for conversational AI**
   - `https://github.com/NVIDIA/NeMo`
     **100+** stars, **5+** forks
   - Implemented bunch of features, couple of **ASR** models and developed overall project structure.
3. **Gadget**
   - `https://github.com/stasbel/gadget`
     **PyPi-package** for Python3.5+
   - Tool for configs parsing with getters on steroids and nice interface for readability

## EVENTS

Hackathons won:

EPAM DS Hackaton
AlphaBank Hackaton
AiHack Hackaton
MunHack Hackaton

## TALKS

Presentations given:

Stepik Task
Stepik Result
IR Project
Bachelor Thesis
Text generation
SDVAE for structures
Deep Image Prior
DNN with Box Convs