

# Artyom Gadetsky

Bayesian Methods Research Group, Moscow, Russia  
artygadetsky@yandex.ru • <https://github.com/agadetsky> • +7 (925) 326-70-02

## EDUCATION

**National Research University Higher School of Economics**  
**Skolkovo Institute of Science and Technology**  
Moscow, Russia

- M.S. in Statistical Learning Theory 2018 – Present

**National Research University Higher School of Economics**  
Moscow, Russia

- B.S. in Computer Science, Machine Learning Major 2014 – 2018
  - Degree with honors
  - GPA: 4.75 / 5

## WORK EXPERIENCE

**Bayesian Methods Research Group**  
Moscow, Russia

- Supervisor: Dmitry Vetrov 2016 – Present
  - Description: conducting research on causal inference and variance reduction techniques for discrete latent variable models.

**Sberbank-HSE Laboratory**  
Moscow, Russia

- Supervisor: Evgeny Sokolov 2017 – Present
  - Description: conducting research on different tasks for Sberbank Russia

## RESEARCH EXPERIENCE

**National Research University Higher School of Economics**  
Moscow, Russia

- Topic: Causal inference for discrete data Present
  - Supervisor: Dmitry Vetrov
  - Description: Conducting research on structure learning of DAG for discrete data.

**National Research University Higher School of Economics**  
Moscow, Russia

- Topic: Generators of Words Definitions Oct 2016 – Aug 2018
  - Supervisor: Dmitry Vetrov
  - Description: Work proposes conditional language model for word's definitions. Conducted experiments show that one particular word embedding contains information about most meanings of the corresponding word and that particular components of word embeddings can be interpretable.

**Graphics and Media Lab, Moscow State University**  
Moscow, Russia

- Topic: Multiple Object Tracking Jul 2016 – Aug 2016
  - Supervisor: Anton Konushin
  - Description: Research on application of CNNs for tracking people in the crowd

**National Research University Higher School of Economics**  
Moscow, Russia

- Topic: 2D Scene Parsing with Generative Models Dec 2015 – Jun 2016
  - Supervisor: Anton Konushin
  - Description: Application of CNN for object classification and object labeling to set of synthetic data

**National Research University Higher School of Economics**  
Moscow, Russia

- Topic: Road Sign Classification Jul 2015 – Aug 2015
  - Supervisor: Anton Konushin
  - Description: Achieved 98 % accuracy in multiclass road sign classification using HOG and SVM

<b>PUBLICATIONS</b>	<b>CONFERENCES</b> <i>Conditional Generators of Words Definitions</i> Artyom Gadetsky, Ilya Yakubovsky, Dmitry Vetrov In proceedings of the 56th Annual Meeting of the Association for Computational Linguistics (ACL), 2018 <i>Conditional Generators of Words Definitions</i> (poster session) Artyom Gadetsky, Ilya Yakubovsky, Dmitry Vetrov Best Student Work at DIALOGUE 2018 <i>Conditional Generators of Words Definitions</i> (poster session) Artyom Gadetsky, Ilya Yakubovsky, Dmitry Vetrov Presented poster at AINL 2017	
<b>AWARDS</b>	<ul style="list-style-type: none"> <li>■ Ilya Segalovich CS HSE Scholarship 2019 Description: Laureate</li> <li>■ Ilya Segalovich CS HSE Scholarship 2017 Description: Nominee</li> <li>■ Ilya Segalovich CS HSE Scholarship 2016 Description: Nominee</li> <li>■ Open HSE Student Research Paper Competition 2019 Description: Winner (3rd absolute place)</li> <li>■ Silver Nestling Golden HSE Award 2018 Description: Finalist (nominee)</li> <li>■ DIALOGUE 2018 conference Description: Best Student Work for "Conditional Generators of Words Definitions"</li> </ul>	
<b>HACKATHONS</b>	<ul style="list-style-type: none"> <li>■ Microsoft Azure Machine Learning Hack Description: Special award from Alfa Bank for clustering customers by their social statuses</li> <li>■ Kazan Big Data Summit Hack Description: Prize winner for clustering Instagram profiles into commerce / non-commerce classes</li> </ul>	
<b>TALKS</b>	DataFest 2018 (in russian) Topic: Conditional Generators of Words Definitions DIALOGUE 2018 (in russian) Topic: Word Sense Induction and Definition Modeling	
<b>OTHER EXPERIENCE</b>	<ul style="list-style-type: none"> <li>■ Microsoft Research AI Summer School 2018</li> </ul>	
<b>TEACHING</b>	<ul style="list-style-type: none"> <li>■ Continuous Optimization course at HSE and MSU Role: Teaching fellow</li> <li>■ Data Analysis course at HSE Role: Teaching fellow</li> <li>■ DeepBayes 2018 Summer School Role: Teaching assistant</li> <li>■ DeepBayes 2017 Summer School Role: Teaching assistant</li> <li>■ Coursera "Bayesian Methods in Machine Learning" course Role: Teaching assistant</li> <li>■ "Bayesian Methods in Machine Learning" course at YSDA and CMC MSU Role: Teaching assistant</li> <li>■ Machine Learning course at CS HSE Role: Teaching assistant</li> </ul>	Present 2018 Jul 2018 Jul 2017 Present Present Sep 2017 – Jul 2018
<b>PROJECTS</b>	<ul style="list-style-type: none"> <li>■ Web Streamer app Implemented web application for web streaming using: <ul style="list-style-type: none"> <li>• Flask + Nginx rtmp module</li> <li>• HLS/MPEG-DASH protocols for data transfer</li> <li>• ffmpeg for encoding</li> </ul> </li> </ul>	

- File Integrity tool  
Implemented \*nix utility for tracking changes of files using:
  - C/C++ and Berkeley database
  - OpenSSL for hashing
- Instagram stats app  
Implemented web application which provides statistics about Instagram profile using:
  - Flask + Nginx for backend
  - NLTK + Python scientist's toolkit for text analysis
  - Convolutional neural network for photo analysis

## LANGUAGES

- Russian: Native language.
- English: Fluent

## SKILLS

- Machine Learning
- Deep Learning
- Bayesian Machine Learning
- Python, Pytorch
- Feel free with Linux