

Artyom Gadetsky

Bayesian Methods Research Group, Moscow, Russia

artygadetsky@yandex.ru • <https://github.com/agadetsky> • <https://agadetsky.github.io> • +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
- Current GPA: 4.77 / 5

2018 – Present

National Research University Higher School of Economics
Moscow, Russia

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

2014 – 2018

WORK EXPERIENCE

Bayesian Methods Research Group
Moscow, Russia

- Supervisor: Dmitry Vetrov
- Description: conducting research on deep learning and bayesian machine learning, particularly variance reduction techniques for discrete latent variables models where latents are permutations.

2016 – Present

Sberbank-HSE Laboratory
Moscow, Russia

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

2017 – Present

RESEARCH EXPERIENCE

National Research University Higher School of Economics
Moscow, Russia

- Topic: Variance reduction techniques for Plackett-Luce distribution
- Supervisor: Dmitry Vetrov
- Description: Conducting research on causal inference and variance reduction techniques for discrete latent variable models with applications in structure learning of DAGs, TSP, ranking, etc.

Present

National Research University Higher School of Economics
Moscow, Russia

- Topic: Conditional Generators of Words Definitions
- 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.

Oct 2016 – Aug 2018

Graphics and Media Lab, Moscow State University
Moscow, Russia

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

Jul 2016 – Aug 2016

National Research University Higher School of Economics
Moscow, Russia

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

Dec 2015 – Jun 2016

National Research University Higher School of Economics
Moscow, Russia

- Topic: Road Sign Classification
- Supervisor: Anton Konushin

Jul 2015 – Aug 2015

- Description: Achieved 98 % accuracy in multiclass road sign classification using HOG and SVM

PUBLICATIONS

CONFERENCES

- Low-variance Black-box Gradient Estimates for the Plackett-Luce Distribution* (oral)
Artyom Gadetsky, Kirill Struminsky, Chris Robinson, Novi Quadrianto, Dmitry Vetrov
In proceedings of the 34th AAAI Conference on Artificial Intelligence (AAAI), 2020
- Conditional Generators of Words Definitions* (poster session)
Artyom Gadetsky, Ilya Yakubovsky, Dmitry Vetrov
In proceedings of the 56th Annual Meeting of the Association for Computational Linguistics (ACL), 2018
- Conditional Generators of Words Definitions* (poster session)
Artyom Gadetsky, Ilya Yakubovsky, Dmitry Vetrov
Best Student Work at DIALOGUE 2018
- Conditional Generators of Words Definitions* (poster session)
Artyom Gadetsky, Ilya Yakubovsky, Dmitry Vetrov
Presented poster at AINL 2017

WORKSHOPS

- Low-variance Gradient Estimates for the Plackett-Luce Distribution* (spotlight)
Artyom Gadetsky, Kirill Struminsky, Chris Robinson, Novi Quadrianto, Dmitry Vetrov
In proceedings of the Bayesian Deep Learning NeurIPS 2019 Workshop

AWARDS

- The Ilya Segalovich Scholarship 2019
Description: Winner
- Open HSE Student Research Paper Competition 2018
Description: Winner (3rd absolute place)
- Increased State Academic Scholarship 2018
Description: Winner (receiving during autumn semester)
- DIALOGUE 2018 conference
Description: Best Student Work for "Conditional Generators of Words Definitions"

NOMINATIONS

- The Ilya Segalovich Award 2019
Description: Finalist
- Silver Nestling Golden HSE Award 2018
Description: Finalist
- The Ilya Segalovich Scholarship 2017
Description: Nominee
- The Ilya Segalovich Scholarship 2016
Description: Nominee

HACKATHONS

- Microsoft Azure Machine Learning Hack
Description: Special award from Alfa Bank for clustering customers by their social statuses
- Kazan Big Data Summit Hack
Description: Prize winner for clustering Instagram profiles into commerce / non-commerce classes

TALKS

- DataFest 2018 (in russian)
Topic: Conditional Generators of Words Definitions
- DIALOGUE 2018 (in russian)
Topic: Word Sense Induction and Definition Modeling

OTHER EXPERIENCE

- Microsoft Research AI Summer School 2018
- Visiting scholar at the University of Sussex, UK, July-August 2019
Description: hosted by Novi Quadrianto
- Visiting scholar at the University of Sussex, UK, November 2019
Description: hosted by Novi Quadrianto

TEACHING

- Continuous Optimization course at HSE and MSU
Role: Teaching fellow

Present

- Data Analysis course at HSE 2018
Role: Teaching fellow
- DeepBayes 2019 Summer School Aug 2018
Role: Teaching assistant
- DeepBayes 2018 Summer School Aug 2018
Role: Teaching assistant
- DeepBayes 2017 Summer School Aug 2017
Role: Teaching assistant
- Coursera "Bayesian Methods in Machine Learning" course 2017-2018
Role: Teaching assistant
- "Bayesian Methods in Machine Learning" course at YSDA and CMC MSU 2017-2018
Role: Teaching assistant
- Machine Learning course at CS HSE Sep 2017 – Jul 2018
Role: Teaching assistant

LANGUAGES

- Russian: Mother tongue.
- English: Fluent

SKILLS

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