

Andrei Atanov

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[andrewatanov.github.io](https://github.com/andrewatanov)

Education

Ph.D. student in Computer Science, EPFL

Swiss Federal Institute of Technology Lausanne (EPFL)

Laboratory: [VILAB](#), Supervisor: Prof. [Amir Zamir](#)

Lausanne, Switzerland

10/2020 – 10/2025

M.Sc. in Computer Science, NRU HSE

National Research University Higher School of Economics (NRU HSE)

Specialization: Statistical Learning Theory. Supervisor: Prof. [Dmitry Vetrov](#)

GPA: 9.74/10

Moscow, Russia

2018 – 2020

B.Sc. in Computer Science, NRU HSE

National Research University Higher School of Economics (NRU HSE)

Applied Mathematics and Informatics, major in Machine Learning.

GPA: 9.27/10.0

Moscow, Russia

2014 – 2018

Research & Publications ([Google Scholar](#))

My current research focuses on data-centric deep learning. I am interested in understanding how a deep learning model, or an AI agent in general, interacts with its training data and in developing new ways of creating training datasets, particularly using recent advances in generative models. One of my ongoing projects aims at developing adaptive training data generator using text-to-image generative models.

Task Discovery: Finding the Tasks that Neural Networks Generalize on [\[webpage\]](#), [\[arxiv\]](#)
Andrei Atanov, Andrei Filatov, Teresa Yeo, Ajay Sohmshtetty, Amir Zamir **NeurIPS 2022**

Multimae: Multi-modal multi-task masked autoencoders [\[webpage\]](#), [\[arxiv\]](#)
Roman Bachmann*, David Mizrahi*, **Andrei Atanov**, Amir Zamir **ECCV 2022**

Semi-Conditional Normalizing Flows for Semi-Supervised Learning [\[arxiv\]](#), [\[workshop\]](#)
Andrei Atanov, Alexandra Volokhova, Arsenii Ashukha, Ivan Sosnovik, Dmitry Vetrov **ICML INNF 2019**

The Deep Weight Prior [\[arxiv\]](#)
Andrei Atanov*, Arsenii Ashukha*, Kirill Struminsky, Dmitry Vetrov, Max Welling **ICLR 2018**

Uncertainty Estimation via Stochastic Batch Normalization [\[arxiv\]](#)
Andrei Atanov, Arsenii Ashukha, Dmitry Molchanov, Kirill Neklyudov, Dmitry Vetrov **ICLR'18 Workshop**

Reviewing

NeurIPS 2023 ([Top Reviewer](#)); CVPR 2023; INNF@ICML 2021; BDL@NeurIPS 2019;

Work Experience

Junior Research Fellow

Samsung-HSE Laboratory. Probabilistic deep learning and Bayesian modeling.
Supervised by Prof. Dmitry Vetrov

Moscow

2018 – 2020

Research Assistant

[Bayesian Methods Research Group](#)

Moscow

2016 – 2020

Researcher

DPL Lab. Leading a project on developing landmarks recognition models for a travelling app.

Moscow

2017

R&D Intern

Moscow

IPONWEB. I conducted research and explored new machine learning models for the click-through-rate prediction problem.

2016–2017

Awards

EPFL EDIC Fellowship for Ph.D. students, 2020-2021

The Ilya Segalovich Award for young researchers, 2019 [[link](#)]

Teaching

Teaching Assistant

Lausanne

Swiss Federal Institute of Technology Lausanne (EPFL)

2021–2022

Courses: Visual Intelligence, Probability and Statistics, Numerical Methods for Visual Computing and Machine Learning

Practice Lecturer

Moscow

National Research University Higher School of Economics

2018–2020

Machine Learning course for 3rd year CS students

Teaching Assistant

Moscow

National Research University Higher School of Economics

2015–2018

Courses: Algorithms and Data Structures, Probability Theory, Machine Learning.
Deep Bayes summer school, [@deepbayes](#) (twitter).

Skills

Research, Machine Learning, Deep Learning, Statistics, Algorithms & Data Structures
Python, PyTorch, TensorFlow, C++