## Kirill Neklyudov

Email: k.necludov@gmail.com LinkedIn: linkedin.com/in/kirill-neklyudov/

GoogleScholar: link GitHub: github.com/necludov

Publications Wasserstein Quantum Monte Carlo: A Novel Approach for Solving the

Quantum Many-Body Schrödinger Equation

Kirill Neklyudov, Jannes Nys, Luca Thiede, Juan Carrasquilla, Qiang Liu, Max

Welling, Alireza Makhzani.

**Action Matching: Learning Stochastic Dynamics from Samples** 

Kirill Neklyudov, Rob Brekelmans, Daniel Severo, Alireza Makhzani.

ICML 2023.

**Orbital MCMC** 

Kirill Neklyudov, Max Welling.

AISTATS 2022 (oral).

**Involutive MCMC: a Unifying Framework** 

Kirill Neklyudov, Max Welling, Evgenii Egorov, Dmitry Vetrov.

ICML 2020.

The Implicit Metropolis-Hastings Algorithm

Kirill Neklyudov, Evgenii Egorov, Dmitry Vetrov.

NeurIPS 2019.

Variance Networks: When Expectation Does Not Meet Your Expecta-

tions

Kirill Neklyudov, Dmitry Molchanov, Arsenii Ashukha, Dmitry Vetrov.

ICLR 2019.

Structured Bayesian Pruning via Log-Normal Multiplicative Noise

Kirill Neklyudov, Dmitry Molchanov, Arsenii Ashukha, Dmitry Vetrov.

NeurIPS 2017.

**Particle Dynamics for Learning EBMs** 

Kirill Neklyudov, Priyank Jaini, Max Welling.

NeurIPS 2021 Workshop on Deep Generative Models (oral)

**Deterministic Gibbs Sampling via Ordinary Differential Equations** 

Kirill Neklyudov, Roberto Bondesan, Max Welling.

Metropolis-Hastings view on variational inference and adversarial

training

Kirill Neklyudov, Evgenii Egorov, Pavel Shvechikov, Dmitry Vetrov.

Reviewer experience NeurIPS 2020, 2021 (outstanding reviewer award), 2022 (top reviewer), 2023

ICLR 2021, 2022 (highlighted reviewer)

AISTATS 2021, 2022

TMLR 2022, 2023

**JMLR 2022** 

Research experience Vector Institute Toronto, Canada

Postdoctoral Researcher

Nov 2021 – Present

Topic: Generative Modeling, Quantum Variational Monte Carlo.

University of Amsterdam, AMLab

Amsterdam, the Netherlands

Postdoctoral Researcher

Sep 2020 - Oct 2021

Topic: deterministic Monte Carlo methods.

Samsung, AI center

Moscow, Russia

Researcher

Apr 2018 - Aug 2020

Topics: improvement of deep generative models, deep Monte Carlo methods.

**Higher School of Economics**, CS department

Moscow, Russia

Researcher

Feb 2018 - Aug 2020

Topic: Bayesian deep learning.

Yandex, Research

Moscow, Russia

Researcher

Apr 2017 – Jan 2018

Topic: sparsification of deep neural networks.

Industry experience

Yandex, Data Factory

Moscow, Russia

Data Scientist

Jul 2014 – Mar 2017

Problems: image segmentation, industrial processes optimization.

Responsibilities: problem statement, developing and evaluating predictive models, prototyping the solution.

Yandex, Data Factory

Moscow, Russia

Intern

Nov 2013 – Jun 2014

Problem: GPS tracks classification.

Responsibilities: problem statement, developing and evaluating predictive

models, prototyping the solution.

Teaching experience

Assistant lecturer

CS Department (National Research University Higher School of Economics)

Bayesian methods in Machine Learning

Sep 2017 – Apr 2020

Responsibilities: participating in course development (assignments and lec-

tures), evaluation of students.

Assistant lecturer

CS Department (National Research University Higher School of Economics)

Machine Learning

Sep 2016 – Dec 2018

Responsibilities: participating in course development (assignments and lec-

tures), evaluation of students.

**Tutor** 

Sep 2016 – Dec 2018

## Math and Physics for university and high school students

Education	Higher School of Economics PhD in Computer Science Supervisor: Dmitry Vetrov.	Moscow, Russia Sep 2016 – Nov 2020
	Yandex School of Data Analysis Additional education in Data Science	Moscow, Russia Sep 2014 – Jun 2016
	Moscow Institute of Physics and Technology MA in Applied Physics and Mathematics Supervisor: Viktor Lobachev. <i>GPA: 4.76 / 5.0.</i>	Moscow, Russia Sep 2014 – Jul 2016
	Moscow Institute of Physics and Technology BA in Applied Physics and Mathematics Supervisor: Viktor Lobachev. <i>GPA</i> : 4.82 / 5.0.	Moscow, Russia Sep 2010 – Jul 2014
Talks	Wasserstein Quantum Monte Carlo Quantum-ML Workshop at Vector Institute	Jun 2023
	Introduction to Generative Modeling via Diffusion PIQuIL Group Seminar at Perimeter Institute	Mar 2023
	Action Matching Shannon's Bandwagon Seminar at Google AI	Feb 2023
	Fokker-Planck Equation Guest Lecture at University of Southern California	Feb 2022
	<b>Langevin Dynamics for Sampling and Global Optin</b> Deep Bayes Summer School	nization Aug 2019
	<b>Bayesian Sparsification of Deep Neural Networks</b> Deep Bayes Summer School	Aug 2018