

Alisa Sheinkman

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Profile

Researcher in **deep learning** and **probabilistic modelling** experienced in developing Bayesian models and scalable inference algorithms in the age of **big data** and ever-evolving tasks. Seeking industry opportunities to leverage my expertise in **data science**, **AI** and **ML** research in real-world problems and decision-making challenges.

Education

University of Edinburgh, Edinburgh, UK 2020 - 2025

Ph.D. in Statistics

The thesis studies Bayesian **deep models** and **efficient learning** schemes. I developed a novel class of Bayesian neural networks and a corresponding variational inference algorithm which together address the challenge of model choice, and improve the **accuracy**, **calibration** and **reliability of uncertainty quantification** which is especially crucial in **decision-making** and **safety-critical applications**.

University of Cambridge, Cambridge, UK 2019 - 2020

MASt in Mathematical Statistics (Merit) Average mark of 71.0% with essay mark of 87.0%.

National Research University Higher School of Economics, Moscow, Russia 2015 - 2019

Bachelor of Mathematics (First Class Honours) GPA 9.34 out of 10.

Experience

Graduate Teaching Assistant, King's College London, London, UK 2022-2025

Led tutorials, marked assignments and exams on Fundamentals of Probability and Statistics courses.

Researcher, Alan Turing Institute Data Study Group, London, UK 2022

Intensive data study group which developed and tested deep learning models for predicting the perception of various urban noises.

Market analyst, Nielsen IQ, Moscow, Russia 2021

Analysed Nielsen Retail Measurement Data to identify market trends, providing data-driven insights that informed strategic business decisions.

Research intern, NRU HSE, Moscow, Russia 2018-2019

Developed advances on braid groups and quantum matrix algebras in the international laboratory of representation theory and mathematical physics.

Skills

Technical Skills Python with Numpy/SciPy, JAX, pandas, scikit-learn, NumPyro, Pytorch, Transformers, Git and GitHub; \LaTeX .

Soft Skills Critical thinking, emotional intelligence, problem-solving in fast-paced environments.

Languages English (C2, full proficiency), Russian (native), French (B1).

Miscellaneous

Publications and a full list of research activities are available on the [website](#).

OVD-info volunteer (human rights defence and media group);

Sports: boxing (2021 - now), professional figure skating (did 2002-2014).