Alisa Sheinkman

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26 y.o. | London, UK

EDUCATION

University of Edinburgh — Edinburgh, Scotland
PhD in Maths - Yet to obtain — *Sept. 2020 - Now*

University of Cambridge, Girton College — Cambridge, England
*MASt in Mathematical Statistics, average **71.0**, essay **87.0** out of 100* — *Sept. 2019 - Jul. 2021*

NRU Higher School of Economics — Moscow, Russia
*Bachelor of Mathematics, Minor in Economics, **GPA 9.34** out of 10* — *Sept. 2015 – Jun. 2019*

London School of Economics, Summer Courses — London, England
Advanced Econometrics, Fixed Income Securities, Debt Markets and the Macro Economy — *Jun. - Aug. 2018*

EXPERIENCE

Alan Turing Institute Data Study Group participant — Dec 2022
The Alan Turing institute — *London, UK*

- Develop and test deep learning model structures for predicting the perception of various urban sounds.
- Investigate whether the inclusion of sound source information improves the ability to predict noise annoyance ratings.

Graduate Teaching Assistant — Sept. 2022 - Now
Kings College London — *London, UK*

- Provide tutorials on Fundamentals of Probability, Intro to Dynamical Systems, Probability and Statistics, mark homeworks and exams

Market Analyst — Nov 2021 - Dec 2021
Nielsen IQ — *Moscow, Russia*

- Provide analysis of Nielsen Retail Measurement Data helping to answer client's business questions.
- Present analysis results to internal and external clients driving client overall understanding of practices solutions and its applicability for client business needs.

Ph.D. student — Sept 2020 - Now
University of Edinburgh — *Edinburgh, UK*

- Research   Conduct a research in Bayesian Statistics and develop advances in deep modelling via Bayesian approach. PhD project studies:
(i) Efficient inference schemes for Bayesian deep models, mainly Variational Inference algorithms with such examples as Coordinate Ascent Variational Inference or Stochastic Variational Inference.
(ii) Model selection problem, choice and importance of appropriate sparsity promoting priors for improving the prediction accuracy and calibration of Deep Neural Networks.
- Teaching   Teaching assistant on Honours Algebra, Calculus and Applications, and Proofs and Problems courses. Tutor on example classes and workshops, check assignments, help undergraduate students to understand the subject.

Research intern
International Laboratory Of Representation Theory and Mathematical Physics, HSE

May 2018 – Jun. 2019

Moscow, Russia

- Research   Conduct a research in braid groups and quantum matrix algebras, participate in workshops and reading groups. Braid groups and quantum matrix algebras formed basis for quantum computing, which is applied in cryptography and machine learning.

Teaching assistant
Higher School of Economics

Jan. – Jun. 2018

Moscow, Russia

- Tutoring   Individually help students with Mathematical Calculus, hold oral exams.

CONFERENCES

Bayes at CIRM
Participant

October 2023

Marseille , France

- A week-long autumn school providing a rich overview of end-to-end Bayesian solutions to real-world learning problems in complex settings with both hands-on and theoretical topics covered.

BayesComp
Participant

March 2023

Levi, Finland

- The biennial conference of the Bayesian Computation Section of the International Society for Bayesian Analysis.

CfS Annual Conference + CfS PhD student day
Participant + Organizer

June 2022

Edinburgh, UK

- Conference bringing together researchers working with data from across the University of Edinburgh and Associated Institutions + a satellite aiming is to foster knowledge exchange among PhD students.

CfS+CfDB Research Afternoon
Participant

May 2022

Edinburgh, UK

- Joint research meeting held to promote collaboration between neuroscience and statistics communities in Edinburgh

SKILLS

Languages: English (fluent), Russian (native), French (beginner)

Programming: Python with libraries including SciPy, Pyro, Pytorch, JAX, SAGE, HTML, confidence with GitHub

General IT: MS office, LaTeX

Communication: Delivered seminars and gave oral presentations on workshops. Wrote a bachelor's thesis, master's essay and annual reviews.

Teamwork: Currently working on a paper with three other people. Participated in intensive collaborative projects.

Other: Analytical thinking, planning, working well under pressure, empathy, respectfulness.

EXTRA

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

Other interests are philosophy and politics, boxing (doing now), professional figure skating (did 2002-2014)