

Alisa Sheinkman

[website](#) | +447902201473

a.sheinkman@sms.ed.ac.uk | alisasheik@gmail.com

26 y.o. | London, UK

EDUCATION

University of Edinburgh

PhD in Maths - Yet to obtain

Edinburgh, UK

Sept. 2020 - Now

University of Cambridge, Girton College

MASt in Mathematical Statistics, average 71.0, essay 87.0 out of 100

Cambridge, UK

Sept. 2019 - Jul. 2021

NRU Higher School of Economics

Bachelor of Mathematics, Minor in Economics, GPA 9.34 out of 10

Moscow, Russia

Sept. 2015 - Jun. 2019

EXPERIENCE

Graduate Teaching Assistant

Kings College London

Sept. 2022 - Now

London, UK

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

Alan Turing Institute Data Study Group participant

The Alan Turing institute

Dec 2022

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.

Market Analyst

Nielsen IQ

Nov 2021 - Dec 2021

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

University of Edinburgh

Sept 2020 - Now

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

May 2018 – Jun. 2019

International Laboratory Of Representation Theory and Mathematical Physics, HSE

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

Jan. – Jun. 2018

Higher School of Economics

Moscow, Russia

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

PUBLICATIONS

- **A.Sheinkman**, S.Wade, Variational Bayesian Bow tie Neural Networks with Shrinkage, arXiv:2411.11132 [stat.ML], 2024.
- A.Mitchell, E.Brown, R.Deo, Y.Hou, J.Kirton-Wingate, J.Liang, **A.Sheinkman**, C.Soelistyo, H.Sood, A.Wongprommoon, K.Xing, W.Yip, F.Aletta, Deep learning techniques for noise annoyance detection: Results from an intensive workshop at the Alan Turing Institute, the Journal of the Acoustical Society of America 153, A262-A262, 2023.

CONFERENCES

BAYSM + ISBA world meetings

June-July, 2024

Participant + Presenter

Venice , Italy

- Contributed talk at the Bayesian Young Statisticians Meeting and the International Society for Bayesian Analysis World Meeting.

CfS Annual Conference + ECR day

June 2024

Participant + Presenter

Edinburgh , UK

- A talk on Early Career Researches Day and a poster at Centre for Statistics Annual Conference.

Bayes at CIRM

October 2023

Participant

Marseille, France

BayesComp

March 2023

Participant

Levi, Finland

CfS Annual Conference + CfS PhD student day

June 2022

Participant + Organizer

Edinburgh, UK

CfS+CfDB Research Afternoon

May 2022

Participant

Edinburgh, UK

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, L^AT_EX

Miscellaneous: OVD-info volunteer (human rights defence and media group), boxing (doing now), professional figure skating (did 2002-2014)