Alisa Sheinkman

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26 y.o. | London, UK

EDUCATION

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

University of Cambridge, Girton College   Cambridge, UK
*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*

EXPERIENCE

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.

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.

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   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, pandas, scikit-learn, NumPyro, Pytorch, JAX, confidence with GitHub.

General IT: MS office, LaTeX, Markdown.

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