

Akash Srivastava

General Information

Affiliation *Institute of Language, Cognition and Computation, School of Informatics, University of Edinburgh*

Supervisor Dr Charles Sutton and Dr Michael Gutmann

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Education

2014–2017 **PhD**, *ILCC, Informatics Forum*, University of Edinburgh, *UK*.
Variational Inference in Deep Generative Models and Interactive Machine Learning.
Under Dr Charles Sutton and Dr Michael Gutmann

2013–2014 **MSc Informatics**, *School of Informatics*, University of Edinburgh, *Distinction*.
Machine Learning, Data Science and Natural Language Processing.
Thesis under Dr Victor Lavrenko

2009–2013 **BSc Artificial Intelligence and Computer Science**, *DCS*, University of Sheffield,
First Class Honours.
Thesis under Prof. Fabio Ciravegna and Dr Trevor Cohn

Experience

Industry

2011–2012 **Intern**, *Microsoft Technology Center*, Reading, UK.

- Provided technical support for Proof of Concept and Architectural Design sessions.
- Technical presentations to high profile customers.
- Achieved the Whitecoat Award.
- Implemented a Kinect-based MTC Demo App.

Research

2013 **Summer Research Intern**, *OAK Group*, University of Sheffield.
Developed a novel method for real-time detection of events with low statistical support in Twitter stream to be used for crowd control in music festival.

July-September (2017) **Research Intern**, *Microsoft Research, Cambridge*.
Inference in web scale unsupervised learning problems.

Teaching

2015–2016 **Tutor**, *Research Methods*, Informatics Forum.
Tutored MSc students in the Machine Learning Degree.

Scholarships and Awards

- PhD Xerox Rank Scholarship
- PhD School of Informatics Scholarship
- MSc Informatics Global Scholarship
- Bsc Sheffield Global Scholarship

Publications and Thesis

- 1 Akash Srivastava and Charles Sutton. Autoencoding Variational Inference for Topic Models. ICLR, 2017.
- 2 Akash Srivastava, James Zou, Ryan P. Adams, and Charles Sutton. Clustering with a Reject Option: Interactive Clustering as Bayesian Prior Elicitation. IDEA, KDD, 2016 (Oral).
- 3 Akash Srivastava and Charles Sutton. Deep Pachinko Allocation Machine. (Under review).
- 4 Akash Srivastava, Lazar Valkov, Chris Russell, Micheal Gutmann and Charles Sutton. VEEGAN: Reducing Mode Collapse in GANs using Implicit Variational Learning. (Under Review).
- 5 Sofia Ceppi, Zhenyu Wen, Michael Rovatsos, Akash Srivastava, Pavlos Andreadis, and Stuart Anderson. From Optimisation to Recommendation: Scaling up Smart Ridesharing Systems. (In Preparation)
- 6 Akash Srivastava. Event Detection in Twitter for Music Festivals. Internal Technical Report, 2013.
- 7 Akash Srivastava. Burst Detection Modulated Document Clustering: A Partially Feature-Pivoted Approach To First Story Detection. Masters Thesis, 2014 under Dr Victor Lavrenko.
- 8 Akash Srivastava. Question Detection in Twitter. BSc Thesis, 2013 under Prof. Fabio Ciravegna.