

# Akash Srivastava

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## 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 **Research Intern, Microsoft Research, Cambridge**, Variational inference in web scale unsupervised learning problems in text.  
(2017) Under John Winn.

### Teaching

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

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## Scholarships and Awards

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

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## Publications and Thesis

- 1 Akash Srivastava, Lazar Valkov, Chris Russell, Micheal Gutmann and Charles Sutton. VEEGAN: Reducing Mode Collapse in GANs using Implicit Variational Learning. NIPS, 2017.
- 2 Akash Srivastava and Charles Sutton. Autoencoding Variational Inference for Topic Models. ICLR, 2017.
- 3 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).
- 4 Akash Srivastava and Charles Sutton. Deep Pachinko Allocation Machine. (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.