Akash Srivastava

	General Information
Affiliation	Institute of Language, Cognition and Computation, School of Informatics, University of Edinburgh
Supervisor	Dr Charles Sutton and Dr Michael U. Gutmann
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	Education
2014–2018	PhD , <i>ILCC</i> , <i>Informatics Forum</i> , University of Edinburgh, <i>UK</i> . Variational Inference in Deep Generative Models. Under Dr Charles Sutton and Dr Michael U. 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 , <i>DCS</i> , University of Sheffield, <i>First Class Honours</i> . Thesis under Prof. Fabio Ciravegna and Dr Trevor Cohn
	Experience
Feb-March (2018)	Visiting Researcher , <i>RIKEN Center for Advanced Intelligence Project, Tokyo, Japan</i> , Amortized Variational Inference. Hosted by Emtiyaz Khan.
July-Sept (2017)	Research Intern , <i>Microsoft Research</i> , <i>Cambridge</i> , Variational inference in web scale unsupervised learning problems in text. Under John Winn.
2015–2016	Tutor , Research Methods, Informatics Forum. Tutored MSc students in the Machine Learning Degree.
2013	Summer Research Intern , <i>OAK Group</i> , 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. Under Fabio Ciravegna.
2011–2012	Intern, Microsoft Technology Center, Reading, UK.Whitecoat Award.

Scholarships and Awards

PhD School of Informatics Scholarship

PhD Xerox Rank Scholarship

- PhD ICLR Travel Award, 2017
- PhD NIPS Travel Award, 2017
- MSc Informatics Global Scholarship
- Bsc Sheffield Global Scholarship

Publications

- Lazar Valkov, Dipak Chaudhari, Akash Srivastava, Swarat Chaudhuri and Charles Sutton. Synthesis of Differentiable Functional Programs for Lifelong Learning. NIPS, 2018.
- Mohammad Emtiyaz Khan, Zuozhu Liu, Voot Tangkaratt, Didrik Nielsen, Yarin Gal, Akash Srivastava. Vadam: Fast and Scalable Variational Inference by Perturbing Adam. ICML, 2018.
- Akash Srivastava, Lazar Valkov, Chris Russell, Michael U. Gutmann and Charles Sutton. VEEGAN: Reducing Mode Collapse in GANs using Implicit Variational Learning. NIPS, 2017.
- Akash Srivastava and Charles Sutton. Autoencoding Variational Inference for Topic Models. ICLR, 2017.
- Akash Srivastava, James Zou, Ryan P. Adams, and Charles Sutton. Clustering with a Reject Option: Interactive Clustering as Bayesian Prior Elicitation. IDEA Workshop, KDD, 2016 (**Oral**).

Preprints and Active Projects

- Akash Srivastava, Kai Xu, Michael U. Gutmann and Charles Sutton. Ratio Matching MMD Nets: Low dimensional projections for effective deep generative models. (Under review, draft available)
- Akash Srivastava and Charles Sutton. Deep Pachinko Allocation Machine. (Under review, draft available).
- Cole Hurwitz, Akash Srivastava, Kai Xu and Matthias Henning. Autoencoding Waveforms to Spike Trains.
- Kai Xu, Akash Srivastava and Charles Sutton. Autoencoding Indian Buffet Process.

Thesis and Technical Reports

- Akash Srivastava. Burst Detection Modulated Document Clustering: A Partially Feature-Pivoted Approach To First Story Detection. Masters Thesis, 2014 under Dr Victor Lavrenko.
- Akash Srivastava. Event Detection in Twitter for Music Festivals. Internal Technical Report, 2013.
- Akash Srivastava. Question Detection in Twitter. BSc Thesis, 2013 under Prof. Fabio Ciravegna.