## Nitish Srivastava

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Research Interests	Machine learning with deep neural network	fachine learning with deep neural networks for applications to vision, text and speech.	
EDUCATION	University of Toronto, Toronto, Canada		
	PhD student, Computer Science, Jan 2013 - present.		
	Advisors: Geoffrey Hinton, Ruslan Salakhutdinov		
	University of Toronto, Toronto, Canada		
	Master of Science, Computer Science, Sept 2011 - Jan 2013.		
	Thesis: Improving Neural Nets with Dropout Advisors: Geoffrey Hinton, Ruslan Salakhutdinov		
	Indian Institute of Technology, Kanpur, India		
	B.Tech., Computer Science, July 2007 - May 2011.		
Refereed Publications	Nitish Srivastava, Elman Mansimov, and Ruslan Salakhutdinov. Unsupervised learning of video representations using LSTMs. In <i>Proceedings of the 32nd International Conference on Machine Learning (ICML-15)</i> , to appear.		
	Nitish Srivastava and Ruslan Salakhutdinov. Multimodal learning with deep Boltzmann machines. Journal of Machine Learning Research, 15:2949–2980, 2014.		
	Yichuan Tang, Nitish Srivastava, and Ruslan R Salakhutdinov. Learning generative models with visual attention. In Advances in Neural Information Processing Systems 27, pages 1808–1816. 2014, Oral.		
	Nitish Srivastava, Geoffrey Hinton, Alex Krizhevsky, Ilya Sutskever, and Ruslan Salakhutdinov. Dropout: A simple way to prevent neural networks from overfitting. <i>Journal of Machine Learning Research</i> , 15:1929–1958, 2014.		
	Nitish Srivastava and Ruslan Salakhutdinov. Discriminative transfer learning with tree-based priors. In Neural Information Processing Systems (NIPS), pages 2094–2102, 2013.		
	Nitish Srivastava, Ruslan Salakhutdinov, and Geoffrey E. Hinton. Modeling documents with Deep Boltzmann Machines. In Uncertainty in Artificial Intelligence (UAI). AUAI, 2013, Oral.		
	Nitish Srivastava and Ruslan Salakhutdinov. Multimodal learning with Deep Boltzmann Machines. In Neural Information Processing Systems (NIPS), pages 2231–2239, 2012, <b>Oral</b> .		
	Rakesh Agrawal, Sreenivas Gollapudi, Krishnaram Kenthapadi, Nitish Srivastava, and Raja Velu. Enriching textbooks through data mining. In <i>First ACM Annual Symposium on Computing for Development</i> , (ACM DEV), page 19. ACM, 2010.		
	P. De Reffye, Sébastien Lemaire, Nitish Srivastava, Fabienne Maupas, and Paul-Henry Cournède. Modeling Inter-Individual Variability in Sugar Beet Populations. In International Symposium on Plant Growth Modeling, Simulation, Visualization and Applications (PMA). IEEE, 2009.		
Non-Refereed Publications	Geoffrey E. Hinton, Nitish Srivastava, Alex Krizhevsky, Ilya Sutskever, and Ruslan Salakhut- dinov. Improving neural networks by preventing co-adaptation of feature detectors. CoRR, abs/1207.0580, 2012.		
	Nitish Srivastava and Ruslan Salakhutdinov. Learning representations for multimodal data with		

deep belief nets. In ICML Workshop on Representation Learning, 2012.

Internships and Work Experience	<b>Google Inc.</b> , Mountain View, CA, USA E Intern Mentor: Dr Greg Corrado A new method for language understanding.	June - Sept, 2013
	<b>Google Inc.</b> , Mountain View, CA, USA Intern Mentor: Dr Francoise Beaufays Improving speech recognition using deep neural networks.	June - Sept, 2012
	Microsoft Research Search Labs, Mountain View, CA, USA Intern Mentors: Dr Sreenivas Gollapudi, Dr Krishnaram Kenthapadi, Dr Rakesh Ag NLP system for finding semantically important concepts in textbooks and rep pages to further explain them.	-
	Applied Mathematics and Systems Lab (MAS), Ecole Centrale Paris, Intern Mentor: Dr Paul-Henry Cournede Worked on modeling heterogeneity and uncertainty propagation in plant po signed and implemented an efficient algorithm to estimate the effect of variab conditions on the state of a plant population. Variability results could now be than by Monte-Carlo simulations.	May - July, 2009 pulation models. De- bility in environmental
Teaching Experience	Co-Instructor Introduction to Neural Networks Teaching Assistant Introduction to Neural Networks Wint Introduction to Machine Learning Neural Networks for Machine Learning, MOOC version on Courser Algorithm Design and Analysis	Winter 2015 er 2012, 2013, 2014 Fall 2013, 2014 ra Fall 2012 Fall 2011
Scholarships	Summer Undergraduate Research Grant for Excellence (SURGE) IIT Kanpu Goldman Sachs Global Leader Award. Aditya Birla Group Scholarship for funding undergraduate studies. Award students across all Indian universities. (1) Central Board of Secondary Education Scholarship for Professional Studies. (1)	(USD 3,000, 2009). led to 10 engineering INR 260,000, 2007-11)
Honors and Awards	<ul><li>Academic Excellence Award for 3 consecutive years 2007-10 by IIT Kanpur, India</li><li>Ranked 2nd in India (among nearly 300,000 students) in the Joint Entrance Exam 2007 conducted by the Indian Institutes of Technology.</li><li>Ranked 1st in India and won the Gold Medal in the National Science Olympiad 2006.</li><li>Was among the 30 students to be selected from India for participating in the prestigious Nurture Programme (2007-11) organized by the National Board for Higher Mathematics.</li></ul>	
TECHNICAL SKILLS	<ul> <li>Experience in writing CUDA kernels for implementing deep learning algor</li> <li>Experience in writing C++ and Python code for large scale distributed sy</li> </ul>	