

Joshua L. Moore

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Education: August 2010 to Present	<ul style="list-style-type: none"> • Cornell University, Ithaca, NY <ul style="list-style-type: none"> ◦ PhD Computer Science ◦ Recipient of the NSF Graduate Research Fellowship ◦ Recipient of the McMullen departmental fellowship ◦ Expected graduation: May 2015
August 2006 to May 2010	<ul style="list-style-type: none"> • Georgia Institute of Technology, Atlanta, GA <ul style="list-style-type: none"> ◦ B.S. Computer Science, B.S. Applied Mathematics ◦ Graduated with highest honors
October 2007 to July 2008	<ul style="list-style-type: none"> • Technical University of Munich, Germany <ul style="list-style-type: none"> ◦ Foreign Exchange Study
Work History: August 2010 to Present	<ul style="list-style-type: none"> • PhD student, Cornell University <ul style="list-style-type: none"> ◦ Researched embedding methods for data analysis tasks, efficient training procedures for embedding methods, playlist prediction, and music information retrieval with Professor Thorsten Joachims (Department of Computer Science). <i>Best student paper award at ISMIR 2014.</i> ◦ Researched randomized algorithms for efficient, large-scale, high-dimensional machine learning with Assistant Professor Ping Li, Department of Statistical Science. Work published at NIPS 2011
May 2014 to August 2014	<ul style="list-style-type: none"> • Software Engineering Intern in search learning group, Facebook, Inc., Menlo Park, CA, USA <ul style="list-style-type: none"> ◦ Implemented new extensions of learning to rank algorithms for search and performed experiments to train optimal models ◦ Obtained models with improved performance metrics for user-facing search components
May 2013 to August 2013	<ul style="list-style-type: none"> • Research Intern, Microsoft Research, Redmond, WA, USA <ul style="list-style-type: none"> ◦ Researched scalable models of meaning in natural language processing tasks, in particular for the problem of animacy detection. Supervised by Christopher J. C. Burges ◦ Published and presented work at the Conference on Empirical Methods in Natural Language Processing (EMNLP) 2013, Seattle, WA
May 2012 to August 2012	<ul style="list-style-type: none"> • Software Engineering Intern in Research, Google, Inc., Mountain View, CA, USA <ul style="list-style-type: none"> ◦ Research in large-scale machine learning methods for YouTube
May 2011 to August 2011	<ul style="list-style-type: none"> • Software Engineering Intern, Google, Inc., Mountain View, CA, USA <ul style="list-style-type: none"> ◦ Implemented distributed machine learning methods for Google Maps
June 2010 to August 2010	<ul style="list-style-type: none"> • Intern, Siemens AG Corporate Technology, Munich, Germany <ul style="list-style-type: none"> ◦ Researched random walk based graph search methods and developed (in a team) a piece of software relating to the smart grid. Supervised by Prof. Dr. Volker Tresp ◦ Published work at ESWC 2011 workshop, IRMLeS 2011

August 2008 to May 2010	<ul style="list-style-type: none"> • Undergraduate research assistant, Georgia Institute of Technology <ul style="list-style-type: none"> ◦ Advised by Professor James M. Rehg ◦ Collected data and designed, coded, and performed experiments in machine learning applied to computer vision and robotics ◦ Published in the <i>International Journal of Robotics Research</i>, 2010
January 2008 to July 2008	<ul style="list-style-type: none"> • Undergraduate research assistant, Technical University of Munich <ul style="list-style-type: none"> ◦ Implemented and tested image segmentation algorithms for a PhD student in Prof. Dr. Nassir Navab's Computer-Aided Medical Practices and Augmented Reality (CAMPAR) group
Publications:	<ul style="list-style-type: none"> • J. L. Moore, T. Joachims, D. Turnbull, "Taste Space Versus the World: an Embedding Analysis of Listening Habits and Geography," <i>International Society for Music Information Retrieval (ISMIR) Conference</i>, October 2014. <ul style="list-style-type: none"> ◦ Best Student Paper Award • J. L. Moore, S. Chen, T. Joachims, D. Turnbull, "Taste Over Time: the Temporal Dynamics of User Preferences," <i>ISMIR</i>, November 2013 • J. L. Moore, C. J. C. Burges, E. Renshaw, W. T. Yih, "Animacy Detection with Voting Models," <i>Conference on Empirical Methods in Natural Language Processing (short paper)</i>, October 2013 • J. L. Moore, S. Chen, T. Joachims, D. Turnbull, "Learning to Embed Songs and Tags for Playlist Prediction," <i>ISMIR</i>, October 2012 • S. Chen, J. L. Moore, T. Joachims, D. Turnbull, "Playlist Prediction via Metric Embedding," <i>KDD</i>, August 2012 • J. L. Moore, S. Chen, T. Joachims, D. Turnbull, "Embedding Songs and Tags for Playlist Prediction (extended abstract)," <i>Music and Machine Learning Workshop at ICML</i>, June/July 2012 • P. Li, A. Shrivastava, J. L. Moore, A. C. König, "Hashing Algorithms for Large-Scale Learning," <i>NIPS</i> 2011 • J. L. Moore, F. Steinke, V. Tresp, "A Novel Metric for Information Retrieval in Semantic Networks," <i>Inductive Reasoning and Machine Learning for the Semantic Web (IRMLeS)</i> 2011 • J. Sun, J. L. Moore, A. Bobick, J. M. Rehg, "Learning Visual Categories for Robot Affordance Prediction," <i>International Journal of Robotics Research</i>, February 2010
Teaching:	<ul style="list-style-type: none"> • Teaching assistant for CS 6784 – Advanced Topics in Machine Learning (instructor: Thorsten Joachims) at Cornell University, Spring 2014 • Guest lecture for CS/INFO 4300 – Information Retrieval (instructor: Claire Cardie) at Cornell University, Fall 2013 • Teaching assistant for CS 4780/5780 – Machine Learning (instructor: Thorsten Joachims) at Cornell University, Fall 2012
Skills:	<ul style="list-style-type: none"> • C/C++, MATLAB, MapReduce, Java, Go, Linux, Bash, Python, native English speaker, fluent in German
Sample of Coursework:	<ul style="list-style-type: none"> • Advanced Machine Learning, Computer Vision, Approximation Algorithms, Operating Systems, Analysis of Algorithms, Real Analysis, Combinatorial Analysis, Numerical Analysis, Topology, Graph Theory, Complex Analysis, Probability and Statistics, Semantics I (linguistics), Syntax I (linguistics), Morphology (linguistics)