Ben London

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Core Machine Learning
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Research Interests

My research interests are **machine learning** and **statistical learning theory**, with a focus on: structured prediction; graphical models; statistical relational learning; approximate inference; variational methods; generalization error; measure concentration; knowledge base construction; scene understanding; and online collective classification.

Employment

Amazon.com, Core Machine Learning, *Machine Learning Scientist*, 2015 – present.

University of Maryland, LINQS Group, *Graduate Research Assistant*, 2011 – 2015.

Google Research, New York, *Research Intern*, Summer 2014.

Sentrana, Inc., *Analytic Software Engineer*, 2008 – 2010.

Anthrotronix, Inc., *Software Engineer*, 2008 – 2008.

Control Group, Inc., *Software Engineering Intern*, Summer 2007.

Education

Ph.D. Computer Science, University of Maryland College Park, 2010 – 2015. Advisor: Lise Getoor.

M.S. Computer Science, Columbia University, 2006 – 2008. Advisor: Tony Jebara.

B.M. Music Technology, New York University, 1997 – 2001, *magna cum laude*.

Publications

Book Chapters

B. London, L. Getoor. Collective Classification of Network Data. *Data Classification: Algorithms and Applications*, Charu Aggarwal. CRC Press, 2013.

Journal Articles

B. London, B. Huang, L. Getoor. Stability and Generalization in Structured Prediction. *to appear in JMLR*, 2016

G. Namata, **B. London**, L. Getoor. Collective Graph Identification. *ACM Transactions on Knowledge Discovery from Data*, 2015

Conference Proceedings

J. Pujara, **B. London**, L. Getoor. Budgeted Online Collective Classification. *UAI*, 2015.

B. London, B. Huang, L. Getoor. The Benefits of Learning with Strongly Convex Approximate Inference. *ICML*, 2015. (**Selected for oral presentation**)

B. London, B. Huang, B. Taskar, L. Getoor. PAC-Bayesian Collective Stability. *AISTATS*, 2014.

S. Bach, B. Huang, **B. London**, L. Getoor. Hinge-loss Markov Random Fields: Convex Inference for Structured Prediction. *UAI*, 2013.

B. London, B. Huang, B. Taskar, L. Getoor. Collective Stability in Structured Prediction: Generalization from One Example. *ICML*, 2013. (**Selected for oral presentation**)

Workshop Proceedings

B. London, B. Huang, L. Getoor. On the Strong Convexity of Variational Inference. *NIPS Workshop on Advances in Variational Inference*, 2014.

B. London, B. Huang, B. Taskar, L. Getoor. PAC-Bayesian Generalization Bounds for Randomized Structured Prediction. *NIPS Workshop on Perturbations, Optimization and Statistics*, 2013. (**Selected for oral presentation**)

B. London, S. Khamis, S. Bach, B. Huang, L. Getoor, L. Davis. Collective Activity Detection using Hinge-loss Markov Random Fields. *CVPR Workshop on Structure Prediction: Tractability, Learning and Inference*, 2013. (**Selected for oral presentation**)

B. Huang, **B. London**, B. Taskar, L. Getoor. Empirical Analysis of Collective Stability. *ICML Workshop on Structured Learning (SLG)*, 2013.

B. London, B. Huang, L. Getoor. Improved Generalization Bounds for Large-scale Structured Prediction. *NIPS Workshop on Algorithmic and Statistical Approaches for Large Social Networks*, 2012.

B. London, T. Rekatsinas, B. Huang, L. Getoor. Multi-relational Weighted Tensor Decomposition. *NIPS Workshop on Spectral Learning*, 2012.

G. Namata, **B. London**, L. Getoor, B. Huang. Query-driven Active Surveying for Collective Classification. *ICML Workshop on Mining and Learning with Graphs*, 2012. (**Selected for oral presentation**)

J. Pujara, **B. London**, L. Getoor. Reducing Label Cost by Combining Feature Labels and Crowdsourcing. *ICML Workshop on Combining Label Strategies to Reduce Label Cost*, 2011.

Technical Reports

B. London, T. Rekatsinas, B. Huang, L. Getoor. Multi-relational Learning Using Weighted Tensor Decomposition with Modular Loss. `http://arxiv.org/abs/1303.1733`, 2013.

B. London, B. Huang, L. Getoor. Graph-based Generalization Bounds for Learning Binary Relations. `http://arxiv.org/abs/1302.5348`, 2013.

Teaching

Artificial Intelligence, *Teaching Assistant*, Spring 2013. Instructor: Lise Getoor.

Machine Learning, *Teaching Assistant*, Fall 2010. Instructor: Lise Getoor.

Professional Service

ALT reviewer: 2014

COLT reviewer: 2015

ICML reviewer: 2013, 2014, 2016

IJCAI reviewer: 2016

NIPS reviewer: 2014, 2015

NSF panel reviewer

TKDD reviewer: 2010, 2014
UAI reviewer: 2013

Awards and Honors

NIPS Best Reviewer, 2015