

# Liping Liu

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POSITION	<b>The Schwartz Family Assistant Professor</b> Department of Computer Science, Tufts University <i>Email:</i> liping.liu@tufts.edu <i>Phone:</i> +1-617-627-0556
EDUCATION	Ph.D., <b>Oregon State University</b> , 2016. Thesis: <i>Machine Learning Methods in Computational Sustainability</i> , advised by Thomas G. Dietterich.  M.S., <b>Nanjing University</b> , 2009. Thesis: <i>Fast Feature Extraction and Incremental Dimensionality Reduction based on Machine Learning Techniques</i> , advised by Yuan Jiang and Zhi-Hua Zhou.  B.S., <b>Hebei University of Technology</b> , 2006.
EXPERIENCE	2017 – present, The Schwartz Family Assistant Professor, <b>Tufts University</b> . 2016 – 2017, Visiting assistant professor, <b>Tufts University</b> . 2016 – 2017, Postdoctoral researcher, <b>Columbia University</b> . 2015 summer, Research intern, <b>IBM T.J. Watson Research</b> . 2009 – 2010, Developer, <b>Alibaba</b> .
RESEARCH INTERESTS	Machine Learning: Classification, Clustering, Graphical Models, Bayesian Analysis Computational Sustainability: Species distribution modeling, Reserve design
PROFESSIONAL SERVICE	Reviewer for <ul style="list-style-type: none"><li>• Machine Learning</li><li>• IEEE Transactions on Knowledge and Data Engineering (TKDE)</li><li>• IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)</li><li>• Journal of Artificial Intelligence Research (JAIR)</li><li>• Journal of Machine Learning Research (JMLR)</li><li>• ACM Transactions on Spatial Algorithms and Systems</li><li>• International Conference on Machine Learning (ICML), 2017</li><li>• Neural Information Processing Systems (NIPS), 2017</li><li>• International Conference on Artificial Intelligence and Statistics (AISTATS), 2018</li><li>• Frontiers of Computer Science</li></ul> PC member of <ul style="list-style-type: none"><li>• International Joint Conferences on Artificial Intelligence (IJCAI), 2015, 2016, 2017</li><li>• AAAI Conference on Artificial Intelligence (AAAI), 2017, 2018</li></ul> NSF Panelist
PUBLICATIONS	<b>Liu, L.-P.</b> , Ruiz, F. J.R., Athey, S. and Blei, D.M.. <i>Context Selection for Embedding Models</i> . Accepted by NIPS 2017. <b>Liu, L.-P.</b> , Blei, D.M.. <i>Zero-Inflated Exponential Family Embeddings</i> . In: Proceedings of the 34th International Conference on Machine Learning (ICML'2017). <b>Liu, L.-P.</b> , Dietterich, T.G., Li, N. and Zhou, Z.-H.. <i>Transductive Optimization of Top k Precision</i> . In: Proceedings of the 25th International Joint Conference on Artificial

Intelligence 2016.

**Liu, L.-P.**, Quanz, B., Xing, D., Deshpande, A. and Liu, X.. *Predicting Weeks-Of-Supply via Sequence Aggregating*. In: Proceedings of the 2015 INFORMS Workshop on Data Mining and Analytics. 2015.

Pei, Y, **Liu, L.-P.** and Fern, X.Z.. *Bayesian Active Clustering with Pairwise Constraints*. In: Proceedings of European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD'2015).

**Liu, L.-P.**, Sheldon, D. and Dietterich, T.G.. *Gaussian Approximation of Collective Graphical Models*. In: Proceedings of the 31st International Conference on Machine Learning (ICML'2014).

**Liu, L.-P.** and Dietterich, T.G.. *Learnability of the Superset Label Learning Problem*. In: Proceedings of the 31st International Conference on Machine Learning (ICML'2014).

**Liu, L.-P.** and Dietterich, T.G.. *A Conditional Multinomial Mixture Model for Superset Label Learning*. In: Proceedings of the 2012 Conference on Neural Information Processing Systems (NIPS'2012).

**Liu, L.-P.** and Fern, X.Z.. *Constructing Training Set for Outlier Detection*. In: Proceedings of the 12th SIAM International Conference on Data Mining (SDM'2012).

Hutchinson, R., **Liu, L.-P.** and Dietterich, T.G.. *Incorporating Boosted Regression Trees into Ecological Latent Variable Models*. In: Proceedings of the 25th AAAI Conference on Artificial Intelligence (AAAI'2011).

**Liu, L.-P.**, Jiang, Y. and Zhou, Z.-H.. *Least Square Incremental Linear Discriminant Analysis*. In: Proceedings of the 9th IEEE International Conference on Data Mining (ICDM'2009).

**Liu, L.-P.**, Yu, Y., Jiang, Y., and Zhou, Z.-H.. *TEFE: A Time-Efficient Approach to Feature Extraction*. In: Proceedings of the 8th IEEE International Conference on Data Mining (ICDM'2008).

Jiang, Y., **Liu, L.-P.**. *Survey of Data Mining on Data Stream* (in Chinese). Journal of Jiangnan University(Natural Science Edition). pp. 654-657.