

MATT J. KUSNER

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EDUCATION

The Alan Turing Institute

Research Fellow
University of Warwick

Present

Cornell University

Visiting Ph.D. student in Dept. of Computer Science
Advisor: Kilian Q. Weinberger

August 2016

Washington University in St. Louis

Ph.D. candidate in Dept. of Computer Science & Engineering
Advisor: Kilian Q. Weinberger

August 2016

Macalester College

B.A. in Computer Science, B.A. in Mathematics
Member of Phi Beta Kappa
Magna Cum Laude

May 2011

PUBLICATIONS

Preprints

Matt J. Kusner, Brooks Paige, José Miguel Hernández-Lobato

Grammar Variational Autoencoder

February, 2017

Jacob R. Gardner*, Paul Upchurch*, Matt J. Kusner, Yixuan Li, Kilian Q. Weinberger, Kavita Bala, John E. Hopcroft

Deep Manifold Traversal: Changing Labels with Convolutional Features

March, 2016

* indicates equal contribution

Conference Publications

Gao Huang, Chuan Guo, Matt J. Kusner, Yu Sun, Kilian Q. Weinberger, Fei Sha

Supervised Word Mover's Distance

Neural Information Processing Systems (NIPS), 2016

Matt J. Kusner, Yu Sun, Karthik Sridharan, Kilian Q. Weinberger

Private Causal Inference

Artificial Intelligence and Statistics (AISTATS), 2016

Gustavo Malkomes, Matt J. Kusner, Wenlin Chen, Kilian Q. Weinberger, Benjamin Moseley

Fast Distributed k-Center Clustering with Outliers on Massive Data

Neural Information Processing Systems (NIPS), 2015

Matt J. Kusner, Yu Sun, Nicholas I. Kolkin, Kilian Q. Weinberger

From Word Embeddings to Document Distances

International Conference on Machine Learning (ICML), 2015

Matt J. Kusner, Jacob R. Gardner, Roman Garnett, Kilian Q. Weinberger

Differentially Private Bayesian Optimization

International Conference on Machine Learning (ICML), 2015

Matt J. Kusner, Wenlin Chen, Quan Zhou, Zhixiang (Eddie) Xu, Kilian Q. Weinberger, Yixin Chen

Feature-Cost Sensitive Learning with Submodular Trees of Classifiers

AAAI Conference on Artificial Intelligence (AAAI), 2014

Matt J. Kusner, Stephen Tyree, Kilian Q. Weinberger, Kunal Agrawal

Stochastic Neighbor Compression

International Conference on Machine Learning (ICML), 2014

Jacob R. Gardner, Matt J. Kusner, Zhixiang (Eddie) Xu, Kilian Q. Weinberger, John P. Cunningham

Bayesian Optimization with Inequality Constraints

International Conference on Machine Learning (ICML), 2014

Zhixiang (Eddie) Xu, Matt J. Kusner, Gao Huang, Kilian Q. Weinberger

Anytime Feature Learning

International Conference on Machine Learning (ICML), 2013

Zhixiang (Eddie) Xu, Matt J. Kusner, Kilian Q. Weinberger, Minmin Chen

Cost-Sensitive Tree of Classifiers

International Conference on Machine Learning (ICML), 2013

Journal Publications

Mrinal Pahwa, Matt J. Kusner, Carl Hacker, David Bundy, Kilian Q. Weinberger, Eric Leuthardt

Optimizing the Detection of Wakeful and Sleep-Like States for Future Electrographic Brain Computer Interface Applications

PLOS ONE Journal, 2015

Zhixiang (Eddie) Xu, Matt J. Kusner, Kilian Q. Weinberger, Minmin Chen, Olivier Chapelle

Classifier Cascades and Trees for Minimizing Feature Evaluation Cost

Journal of Machine Learning Research (JMLR), 2014

PROFESSIONAL ACTIVITIES

ICML Workshop on Resource-Efficient Machine Learning

Co-organizer

July 2015

Lille, France

Talk: **Dynamic Classification under Test-Time Budgets**

ICML Workshop on Learning with Test-Time Budgets

Co-organizer

June 2013

Atlanta, GA

Talk: **Anytime Representation Learning**

Workflow Chair: ICML2016

Program Committee: ICML2017, ICML2015, KDD2015, NIPS2015

AWARDS

Konhauser Award for Mathematical Achievement

Macalester College

May 2011

St. Paul, MN