Machine Learning PhD Dissertations

The following is a list of PhD dissertations available upon request from the instructor for the dissertation critique assignment. The student is free to use any of the following dissertations or any other dissertation in machine learning. Should the student choose a dissertation other than one of the dissertations below, the student must ensure that it was submitted and accepted for a doctoral degree. Masters theses are not acceptable. In addition, the student must obtain approval from the instructor and provide the instructor with access to an electronic version of the dissertation.

2019

- Agrawal, Rakshit, Generalized Learning Models for Structured Data, University of California Santa Cruz, 2019.
- Azizzadenesheli, Kamyar, Reinforcement Learning in Structured and Partially Observable Environments, University of California Irvine, 2019.
- Bose, Sourabh, Learning Representations Using Reinforcement Learning, University of Texas at Arlington, 2019.
- Fazelnia, Ghazal, Optimization for Probabilistic Machine Learning, Columbia University, 2019.
- Jin, Chi, Machine Learning: Why Do Simple Algorithms Work So Well?, University of California Berkeley, 2019.
- Karan, Subhadeep, High Performance Algorithms for Exact Structure Learning of Bayesian Networks, University of Buffalo, 2019.
- Rostami, Mohammad, Learning Transferable Knowledge through Embedding Spaces, University of Pennsylvania, 2019.

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- Butcher, Stephyn G. W., Information Exchange and Conflict Resolution in Particle Swarm Optimization Variants, Johns Hopkins University, 2018.
- Don, Janith N. A. H. P, Learning and Reasoning with Imperfect Data, University of Miami, 2018.
- Gligorijevic, Jelena, Context-Award Learning from Partial Observations Temple University, 2018.
- Johnson, Tyler B., Scaling Machine Learning via Prioritized Optimization, University of Washington, 2018.
- Makhzani, Alireza, Unsupervised Representation learning with Autoencoders, University of Toronto, 2018.
- Sahs, Justin C., Bayesian Nonparametric Probabilistic Methods in Machine Learning, The University of Texas at Dallas, 2018.
- Schnabel, Tobias Benjamin, Improving Machine Learning Beyond the Algorithm, Cornell University, 2018.
- St. Amand, Joseph, Learning to Measure: Distance Metric Learning with Structured Sparsity, University of Kansas, 2018.

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- Iyyer, Mohit, Discourse-Level Language Understanding with Deep Learning, University of Maryland, College Park, 2017.
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- Livezey, Jesse, Learning and Inferring Representations of Data in Neural Networks, University of California, Berkeley, 2017.
- Mathieu, Michael, Unsupervised Learning Under Uncertainty, New York University, 2017.
- Mitchell, Benjamin, The Spatial Inductive Bias of Deep Learning, The Johns Hopkins University, 2017.
- Sharma, Manali, Active Learning with Rich Feedback, Illinois Institute of Technology, 2017.
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- Iandola, Forrest, Exploring the Design Space of Deep Convolutional Neural Networks at Large Scale, University of California, Berkeley, 2016.
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- Luo, Haipeng, Optimal and Adaptive Online Learning, Princeton University, 2016.
- McQuade, Scott, Algorithms for Learning from Spatiotemporal Data, The George Washington University, 2016.
- Sangari, Arash, Efficient Algorithms for Dictionary Learning and Feature Extraction, University of Wisconsin-Madison, 2016.
- Shao, Ming, Efficient Transfer Feature Learning and Its Applications on Social Media, Northeastern University, 2016.
- Strasser, Shane, Factored Evolutionary Algorithms: Cooperative Coevolutionary Optimization with Overlap, Montana State University, 2016.
- Torkamani, Mohamadali, Robust Large Margin Approaches for Machine Learning in Adversarial Settings, University of Oregon, 2016.
- Tosun, Hasari, Efficient Machine Learning Using Partitioned Restricted Boltzmann Machines, Montana State University, 2016.
- Zigic, Ljiljana, Direct L2 Support Vector Machine, Virginia Commonwealth University, 2016.

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- Fortier, Nathan, Inference and Learning in Bayesian Networks Using Overlapping Swarm Intelligence, Montana State University, 2015.
- Humphry, Eric J., An Exploration of Deep Learning in Content-Based Music Informatics, New York University, 2015.
- Janofsky, Eric, Exponential Series Approaches for Nonparametric Graphical Models, University of Chicago, 2015.
- Kabbur, Santosh, Machine Learning Methods for Recommender Systems, The University of Minnesota, 2015.
- London, Benjamin A., On the Stability of Structured Prediction, University of Maryland College Park, 2015.
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- Marivate, Vukosi, Improved Empirical Methods in Reinforcement-Learning Evaluation, Rutgers, The State University of New Jersey, 2015.
- O'Leary, Daniel A., Artificial Neural Network for Optimized Power System Management, University of California Santa Cruz, 2015.
- Nath, Aniruddh, Learning and Exploiting Relational Structure for Efficient Inference, University of Washington, 2015.
- Park, Young Woong, Optimization for Regression, PCA, and SVM: Optimality and Scalability, Northwestern University, 2015.
- Paul, Saurabh, Matrix Sampling Algorithms for Topics in Machine Learning, Rensselaer Polytechnic Institute, 2015. Refaat, Khaled, Decomposition Techniques for Learning Graphical Models, University of California Los Angeles, 2015.
- Tan, Kean Ming, Graph Estimation and Cluster Analysis in High Dimensions, University of Washington, 2015.

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- Eis, David, Machine Learning on Graphs, Princeton University, 2014.
- Foulds, James, Latent Variable Modeling for Networks and Text: Algorithms, Models and Evaluation Techniques, University of California Irvine, 2014.
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- Mahdavi, Mehrdad, Exploiting Smoothness in Statistical Learning, Sequential Prediction, and Stochastic Optimization, Michigan State University, 2014.
- Rivera, Abner, Multi-Output Structure Learning, University of Illinois at Urbana-Champaign, 2014.
- Sattigeri, Prasanna S., Exploring Latent Structure in Data: Algorithms and Implementations, Arizona State University, 2014.

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- Soufiani, Hossein, Revisiting Random Utility Models, Harvard University, 2014.
- Wang, Huahua, Large Scale Optimization for Machine Learning, The University of Minnesota, 2014.
- Wright, Robert, Scaling Reinforcement Learning through Better Representation and Sample Efficiency, Binghamton University, 2014.

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- Kapicioglu, Berk, Applications of Machine Learning to Location Data, Princeton University, 2013.
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- Torrey, Lisa, Relational Transfer in Reinforcement Learning, University of Wisconsin-Madison, 2009.
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- Taylor, Matthew, Autonomous Inter-Task Transfer in Reinforcement Learning Domains, University of Texas at Austin, 2008.
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- Wild, Edward W., Optimization-Based Machine Learning and Data Mining, University of Wisconsin-Madison, 2008.
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- Smith, Noah Ashton, Novel Estimation Methods for Unsupervised Discovery of Latent Structure in Natural Language Text, The Johns Hopkins University, 2006.
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- Yacoub, Francois, Learning from Data Using Latent Variable Methods, McMaster University, 2006.
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