- Machine Learning Discussion Group (MLDG)
- CS 7790 - Artificial Intelligence Seminar
- CS 7794 - Natural Language Processing Seminar
- Statistics seminar
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- OR 4740 - Statistical Data Mining
- CS 4780/5780 - Machine Learning for Intelligent Systems
- STSCI 4780 - Bayesian Data Analysis: Principles and Practice
- CS 4786/5786 - Machine Learning for Data Science
- ECE 5960 - Advanced Topics in Electrical and Computer Engineering. In fall 2014: Graphical Models
- ORIE 6127 - Computational Issues in Large Scale Data-Driven Models
- INFO 6150/CS 6788 Advanced Topic Modeling
- BTRY 6520 - Computationally Intensive Statistical Inference
- CS 6780 - Advanced Machine Learning
- CS 6783 - Machine Learning Theory
- CS 6784 - Advanced Topics in Machine Learning
- ORIE 6740 - Statistical Learning Theory for Data Mining
- ORIE 6750 - Optimal learning
- ORIE 6780 - Bayesian Statistics and Data Analysis
- STSCI 6940 - Selection, Aggregation and Dimension Reduction in Large-scale Problems.
- MATH 7740 - Statistical Learning Theory
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- old courses (possibly no longer offered): CS 4758/6758 - Robot Learning, CS 4782/6782/BTRY 4790/6790 - Probabilistic graphical models, CS 6756 - Advanced Topics in Robot Learning: 3D Perception