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Organizer(s): Viswanath, Pramod (*University of Illinois*)

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Co-Chair: Mohajer, Soheil (*University of Minnesota*)
Organizer(s): Duursma, Iwan (*University of Illinois*)
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Co-Chair: Kiyavash, Negar (*University of Illinois*)
Organizer(s): Quinn, Christopher (*Purdue University*)
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Chair: Wootters, Mary (*Stanford University*)

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Maximov, Yury	<i>Los Alamos National Laboratory</i>

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Li, Wenjie	<i>CentraleSupélec</i>
Assaad, Mohamad	<i>CentraleSupélec</i>
Duhamel, Pierre	<i>CentraleSupélec</i>

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 Gatsis, Konstantinos *University of Pennsylvania*
 Pappas, George J. *University of Pennsylvania*

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 Hien, Le Thi Khanh *National University of Singapore*
 Haskell, William B. *National University of Singapore*

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 Haskell, William B. *National University of Singapore*
 Jain, Rahul *University of Southern California*

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 Leith, Douglas J. *Trinity College Dublin*

ThD5 – Learning, Optimization, and Control		Lower Level
Chair:	Raginsky, Maxim (<i>University of Illinois</i>)	
Co-Chair:	Belabbas, Mohamed-Ali (<i>University of Illinois</i>)	
Organizer(s):	Belabbas, Mohamed-Ali (<i>University of Illinois</i>)	
	Raginsky, Maxim (<i>University of Illinois</i>)	

Control of Unknown Linear Systems with Thompson Sampling 1198
 Ouyang, Yi *University of California, Berkeley*
 Gagrani, Mukul *University of Southern California*
 Jain, Rahul *University of Southern California*

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 Zhou, Enlu *Georgia Institute of Technology*
 Bhatnagar, Shalabh *Indian Institute of Science*

Robust Convergence Analysis of Distributed Optimization Algorithms 1206
 Sundararajan, Akhil *University of Wisconsin, Madison*
 Hu, Bin *University of Wisconsin, Madison*
 Lessard, Laurent *University of Wisconsin, Madison*

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 Chattopadhyay, Arpan *University of Southern California*
 Mitra, Urbashi *University of Southern California*

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 Dwivedi, Raaz *University of California, Berkeley*
 Wainwright, Martin J. *University of California, Berkeley*
 Yu, Bin *University of California, Berkeley*

Stability of Learning Algorithms that Converge to Local Minima n/a
Charles, Zachary *University of Wisconsin, Madison*
Papailiopoulos, Dimitris *University of Wisconsin, Madison*

Differentiable Imitation Learning for Sequential Prediction n/a
Boots, Byron *Georgia Institute of Technology*

Plenary Session **Library**
Chair: Kiyavash, Negar (*University of Illinois*)

Structure and Adaptivity in Optimization, Learning and Inference n/a
Lafferty, John *University of Chicago*

FrA1 – Statistical Learning II
Chair: Oh, Sewoong (*University of Illinois*)
Organizer(s): Oh, Sewoong (*University of Illinois*)

Rewighted Mirror Descent: A Nonconvex Approach for Learning Mixed Probability Distributions n/a
Chen, Yuxin *Princeton University*

Compressed sensing using Generative Adversarial Networks (GANs) n/a
Dimakis, Alex *University of Texas at Austin*

Thy Friend is My Friend: Iterative Collaborative Filtering for Sparse Matrix Estimation n/a
Borgs, Christian *Microsoft Research*
Chayes, Jennifer *Microsoft Research*
Lee, Christina *Microsoft Research*
Shah, Devavrat *Massachusetts Institute of Technology*

Potential Conditional Mutual Information: Estimators and Properties 1228
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Kannan, Sreeram *University of Washington*

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Valiant, Gregory *Stanford University*

Implicit Regularization in Matrix Factorization n/a
Bhojanapalli, Srinadh *Toyota Technological Institute at Chicago*

Sublinear Time Low-Rank Approximation of Positive Semidefinite Matrices n/a
Woodruff, David *Carnegie Mellon University*

FrA2 – Bioinformatics**Solarium**

Chair: Ochoa, Idoia (*University of Illinois*)
Co-Chair: Hernaez, Mikel (*University of Illinois*)
Organizer(s): Ochoa, Idoia (*University of Illinois*)
Milenkovic, Olgica (*University of Illinois*)
Hernaez, Mikel (*University of Illinois*)

Decoding Instructions Encoded in the Genome n/a
Ma, Jian *Carnegie Mellon University*

Applying MethylMix to identify novel DNA methylation cancer subtypes n/a
Brennan, Kevin *Stanford University*
Gevaert, Olivier *Stanford University*

Is Genome Assembly Really NP-Hard? n/a
Shomorony, Ilan *University of California, Berkeley*
Tse, David *University of California, Berkeley*
Vishnoi, Nisheeth Kumar *Ecole Polytechnique Federale de Lausanne (EPFL)*

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Ahn, Soyeon *University of Texas at Austin*
Ke, Ziqi *University of Texas at Austin*
Vikalo, Haris *University of Texas at Austin*

From Big Data to Precision Oncology using Interpretable Machine Learning n/a
Lee, Su-In *University of Washington*

FrA3 – Nonparametrics**Butternut**

Chair: Koyejo, Sanmi (*University of Illinois*)
Co-Chair: Oh, Sewoong (*University of Illinois*)
Organizer(s): Koyejo, Sanmi (*University of Illinois*)
Oh, Sewoong (*University of Illinois*)

Learning Interpretable Features to Compare Distributions n/a
Gretton, Arthur *Gatsby Computational Neuroscience Unit*
Kacper, Chwialkowski *Voleon*
Jitkrittum, Wittawat *UCL*
Strathmann, Heiko *UCL*
Sutherland, Dougal *UCL*
Xu, Wenkai *UCL*

Statistical Consistency of Kernel PCA with Random Features n/a
Sriperumbudur, Bharath *Pennsylvania State University*
Sterge, Nicholas *Pennsylvania State University*

Testing for Group Differences in High-Dimensional Graphical Models with Latent Variables n/a
Gunasekar, Suriya *TTIC*
Kolar, Mladen *University of Chicago*
Koyejo, Sanmi *University of Illinois*

Adapting to Noise Parameters in Nonparametric Active Learning n/a
Kpotufe, Samory *Princeton University*

FrA4 – Coded Computing **Pine**
Chair: Bibak, Khodakhast (*University of Illinois*)

A Sequential Approximation Framework for Coded Distributed Optimization 1240
Zhu, Jingge *University of California, Berkeley*
Pu, Ye *University of California, Berkeley*
Gupta, Vipul *University of California, Berkeley*
Tomlin, Claire *University of California, Berkeley*
Ramchandran, Kannan *University of California, Berkeley*

Coded Machine Learning: Joint Informed Replication and Learning for Linear Regression 1248
Kabir, Shahroze *University of California, Los Angeles*
Sala, Frederic *University of California, Los Angeles*
Van den Broeck, Guy *University of California, Los Angeles*
Dolecek, Lara *University of California, Los Angeles*

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Reisizadeh, Amirhossein *University of California, Santa Barbara*
Pedarsani, Ramtin *University of California, Santa Barbara*

On the Optimal Recovery Threshold of Coded Matrix Multiplication 1264
Fahim, Mohammad *Pennsylvania State University*
Jeong, Haewon *Carnegie Mellon University*
Haddadpour, Farzin *Pennsylvania State University*
Dutta, Sanghamitra *Carnegie Mellon University*
Cadambe, Viveck *Pennsylvania State University*
Grover, Pulkit *Carnegie Mellon University*

Matrix Sparsification for Coded Matrix Multiplication 1271
Suh, Geewon *KAIST*
Lee, Kangwook *KAIST*
Suh, Changho *KAIST*

FrA5 – Persuasion & Signalling Games in Controls, Econ & CS **Lower Level**
Chair: Akyol, Emrah (*Binghamton University, SUNY*)
Co-Chair: Langbort, Cedric (*University of Illinois*)
Organizer(s): Akyol, Emrah (*Binghamton University, SUNY*)
Langbort, Cedric (*University of Illinois*)

Reducing Congestion through Information Design 1279
Das, Sanmay *Washington University in St. Louis*
Kamenica, Emir *University of Chicago*
Mirka, Renee *Washington University in St. Louis*

Algorithmic Bayesian Persuasion n/a
Dughmi, Shaddin *University of Southern California*

Informational Incentives in Congestion Games 1285

Tavafoghi, Hamidreza

University of Michigan

Teneketzis, Demosthenis

University of Michigan

Optimal Continuous Disclosure n/a

Ball, Ian

Yale University

Strategic Coordination and Bayesian Persuasion for Autonomous Devices n/a

Le Treust, Mael

ETIS, UMR 8051 / ENSEA, Université Cergy-Pontoise, CNRS

Tomala, Tristan

HEC Paris, GREGHEC UMR 2959

Resource Allocation with Population Dynamics 1293

Epperlein, Jonathan

IBM Research

Mareček, Jakub

IBM Research

The Game of Misinformation n/a

Akyol, Emrah

Binghamton University, SUNY