Conference on Statistical Learning and Data Science

• Schedule •

June 6-8, 2016

Chapel Hill, NC
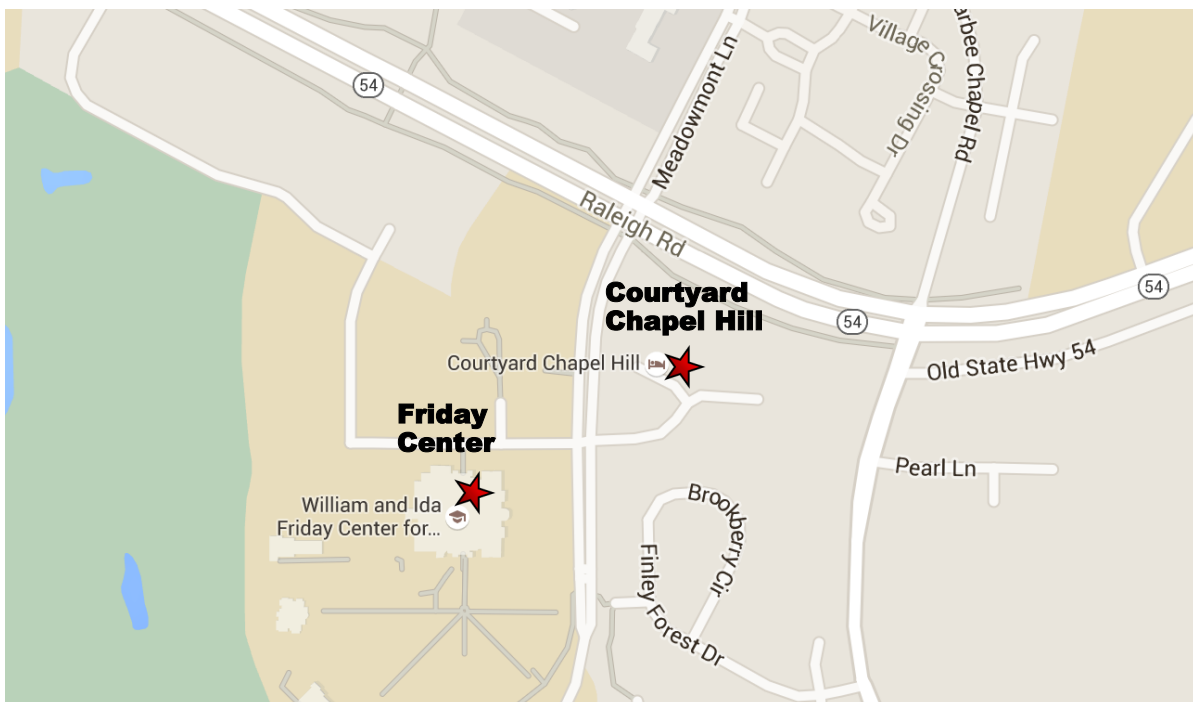
THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL

Contents

Map

Sponsors

- The American Statistical Association Section on Statistical Learning and Data Science

- Institute for Operations Research and the Management Sciences (INFORMS) Data Mining Section

- Institute for Operations Research and the Management Sciences (INFORMS) Artificial Intelligence Section

- Statistical and Applied Mathematical Sciences Institute (SAMSI)

- National Science Foundation (Pending)

- Google Inc.

- RStudio

- SAS Institute Inc.

- UCB Biosciences Inc.

- Department of Statistics & Operations Research, Department of Biostatistics at the University of North Carolina at Chapel Hill

Program Chair

Yufeng Liu
University of North Carolina

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- Yufeng Liu (University of North Carolina)
- Xingye Qiao (Binghamton University; Webmaster)
- Adam Rothman (University of Minnesota)
- Cynthia Rudin (MIT; INFORMS representative)
- Xiaotong Shen (University of Minnesota)

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- Yichao Wu (North Carolina State University)
- Yin Xia (University of North Carolina)
- Donglin Zeng (University of North Carolina)
- Kai Zhang (University of North Carolina)

Schedule

Monday, June 6

7:30-8:30am	Registration & Continental Breakfast - <u>Atrium Center</u>

8:30-8:55am <u>Dogwood AB</u>	**Welcome** Professor Amarjit Budhiraja Chair, Department of Statistics and Operations Research, UNC

9:00-10:30am	**Parallel Sessions**

<u>Dogwood AB</u>	**Theoretical Statistical Learning**
	(organized by Yin Xia, UNC; chaired by Jan Hannig, UNC)
9:00-9:30am	Florentina Bunea (Cornell University)
	Minimax Optimal Variable Clustering in G-Models
9:30-10:00am	Andrew Nobel (UNC)
	Large Average Submatrices of a Gaussian Random Matrix: Behavior of Global and Local optima
10:00-10:30am	Kai Zhang (UNC)
	Packing Inference of Correlation for an Arbitrarily Large Number of Variables

<u>Azalea AB</u>	**Distributed Optimization Methods for Machine Learning**
	(organized and chaired by Yan Xu, SAS)
9:00-9:30am	Alireza Yektamaram (Lehigh University and SAS)
	A Nonconvex Hessian-free Method for Deep Learning Problems
9:30-10:00am	Jorge Silva (SAS)
	Learning Good Ensembles: New Approaches
10:00-10:30am	Patrick Koch (SAS)
	Local Search Optimization for Hyper-Parameter Tuning

<u>Mountain Laurel AB</u>	**Applied Learning and Analysis**
	(organized and chaired by Cynthia Rudin, MIT)
9:00-9:30am	John Guerard (McKinley Capital Mgt., LLC)
	Robust Regression and Data Mining of Financial Data
9:30-10:00am	Edward McFowland III (University of Minnesota)
	Efficient Identification of Heterogeneous Treatment Effects in Randomized Experiments via Anomalous Pattern Detection

10:00-10:30am	Stefano Traca (MIT)
	Regulating Greed Over Time

Bellflower AB	**Network Inference**
	(organized by Karl Rohe, Univ. Wisconsin Madison; chaired by Bailey Fosdick, Colorado State)
9:00-9:30am	Can Le (University of Michigan)
	Structure of sparse random networks
9:30-10:00am	Daniel Sussman (Harvard University)
	Unbiased Estimation of Causal Effects under Network Interference
10:00-10:30am	Alexander Volfovsky (Harvard/ Duke)
	Testing and estimation for relational data

10:30-11:00am	Break - Atrium Center

11:00am-12:00pm Dogwood AB	**Plenary Talk** (chaired by Richard Smith, SAMSI & UNC) Bin Yu, UC Berkeley *Unveiling the mysteries in spatial gene expression*

12:00-1:30pm	**Lunch** - Trillium AB

1:30-3:00pm	**Parallel Sessions**

Dogwood AB	**New Regularization Techniques**
	(organized by Ji Zhu, Univ. Michigan; chaired by Annie Qu, UIUC)
1:30-2:00pm	Cun-Hui Zhang (Rutgers University)
	Nonparametric Shrinkage Estimation
2:00-2:30pm	Fang Han (University of Washington)
	Optimal Structure-Induced Network Estimation
2:30-3:00pm	Qing Mai (Florida State University)
	Multiclass Sparse Discriminant Analysis

Azalea AB	**Machine Learning on Big Data**
	(organized and chaired by Matt Taddy, Univ. of Chicago)
1:30-2:00pm	Daniel Roy (University of Toronto)
	Sparse Random Graphs arising from Exchangeable Random Measures
2:00-2:30pm	Rebecca Steorts (Duke University)
	Why infinite exchangeable mixture models fail for sparse data sets yet microclustering succeeds

• June 6

2:30-3:00pm	Yichao Wu (NCSU)

Principal Weighted Support Vector Machines for Sufficient Dimension Reduction in Binary Classification

Mountain Laurel AB	**High Dimensional Learning Methods and Theory**

(organized by Xiaotong Shen, Univ. of Minnesota; chaired by Wei Sun, Fred Hutchinson Cancer Research Center)

1:30-2:00pm	Jan Hannig (UNC)

Generalized fiducial inference for high-dimensional data

2:00-2:30pm	Yiyuan She (Florida State University)

Indirect Gaussian Graph Learning beyond Gaussianity

2:30-3:00pm	Zhigen Zhao (Temple University)

A new approach to multiple testing of grouped hypotheses

Bellflower AB	**New Mining Tools for Complex Data**

(organized by Hao Helen Zhang, U. Arizona; chaired by Xiaoli Gao, UNC -Greensboro)

1:30-2:00pm	Ping Ma (University of Georgia)

Smoothing spline ANOVA for super-large samples

2:00-2:30pm	Junming Yin (University of Arizona)

Latent Space Inference of Internet-Scale Networks

2:30-3:00pm	Boxiang Wang (University of Minnesota)

Another Look at DWD

3:00-3:30pm	Break - Atrium Center

3:30-5:00pm	**Parallel Sessions**

Dogwood AB	**Machine Learning for Imaging and Medical Applications**

(organized and chaired by Donglin Zeng, UNC)

3:30-4:00pm	Dinggang Shen (UNC)

Machine Learning in Medical Imaging Analysis

4:00-4:30pm	Yuanjia Wang (Columbia University)

Support Vector Hazards Machine: A Counting Process Framework for Learning Risk Scores for Censored Outcomes

4:30-5:00pm	Ming Yuan (University of Wisconsin Madison)

Structured Correlation Detection with Application to Colocalization Analysis in Dual-Channel Fluorescence Microscopic Imaging

Azalea AB   **High-dimensional Inference**

(organized and chaired by Kai Zhang, UNC)

3:30-4:00pm   Anru Zhang (University of Wisconsin at Madison)

Rate-Optimal Perturbation Bounds for Singular Subspaces with Applications to High-Dimensional Statistics

4:00-4:30pm   Han Liu (Princeton University)

Combinatorial Inference

4:30-5:00pm   Shu Lu (UNC)

Confidence Regions and Intervals for Sparse Penalized Regression Using Variational Inequality Techniques

Mountain Laurel AB   **Topics on High Dimensional Learning and Inference**

(organized and chaired by Genevera Allen, Rice Univ.)

3:30-4:00pm   Johannes Lederer (University of Washington)

Efficient Feature Selection With Big Data

4:00-4:30pm   Weijie Su (Stanford University)

Multiple Testing and Adaptive Estimation via the Sorted L-One Norm

4:30-5:00pm   Stefan Wager (Stanford University)

Causal Inference with Random Forests

Bellflower AB   **Biopharmaceutical Applications**

(organized and chaired by Robert Warnock, UCB Biosciences Inc.)

3:30-4:00pm   Bhargav Reddy (UCB Biosciences Inc.)

Predicting Disease State in Crohn's Patients using Clinical Trial Data

4:00-4:30pm   Holger Frohlich (UCB Biosciences Inc.)

Re-Use of Randomized Clinical Trials Data for Predictive Modeling in Epilepsy and Systemic Lupus Erythematosus

4:30-5:00pm   Scott Clark (Eli Lilly)

Discussion and vision of future developments in pharmaceutical research

Tuesday, June 7

7:30-8:30am	Continental Breakfast - Atrium Center

8:30-10:00am	**Parallel Sessions**

Dogwood AB	**The Challenges of machine learning methods and computing tools for large-scale data**
	(organized by Annie Qu, UIUC; chaired by Yufeng Liu, UNC)
8:30-9:00am	Heping Zhang (Yale University)
	Inference with unequal knowledge: nuisance penalized regression, conditional distance correlation, and prior LASSO
9:00-9:30am	Annie Qu (UIUC)
	A Group-Specific Recommender System
9:30-10:00am	Yuan Zhang (University of Michigan)
	Estimating network edge probabilities by neighborhood smoothing

Azalea AB	**Inference and Estimation in Statistical Machine Learning**
	(organized and chaired by Han Liu, Princeton)
8:30-9:00am	Adel Javanmard (USC)
	Online Rules for Control of False Discovery Rate
9:00-9:30am	Zhao Ren (University of Pittsburgh)
	Robust Covariance/Scatter Matrix Estimation via Matrix Depth
9:30-10:00am	Zhaoran Wang (Princeton University)
	Probing the Pareto Frontier of Computational-Statistical Tradeoffs

Mountain Laurel AB	**Network Analysis and Inference tools**
	(organized by Kai Zhang, UNC; chaired by Mu Zhu, Univ. Waterloo)
8:30-9:00am	Shankar Bhamidi (UNC)
	Change Point Detection in Evolving Network Models
9:00-9:30am	Xi Luo (Brown University)
	Network Communities and Variable Clustering: A Covariance Matrix Approach
9:30-10:00am	Pingshou Zhong (Michigan State University)
	Tests for Covariance Structures with High-dimensional Repeated Measurements

Bellflower AB	**Discovery of Features and Patterns**
	(organized by Cynthia Rudin MIT; chaired by Yiyuan She, Florida State Univ.)
8:30-9:00am	Genevera Allen (Rice University)
	Algorithmic Regularization Paths: A New Approach to Variable Selection for High-Dimensional, Highly Correlated Data
9:00-9:30am	Lauren Hannah (Columbia University)
	Statistically Summarizing Labeled Text Data
9:30-10:00am	Shawn Mankad (Cornell University)
	Single Stage Prediction with Text Data using Dimension Reduction Techniques

10:00-10:30am	Break - Atrium Center

10:30-11:30am Dogwood AB	**Plenary Talk** (chaired by Michael Kosorok, UNC) Susan A. Murphy, University of Michigan *Assessing Time-Varying Causal Effect Moderation in Intensive Time-Varying Treatment*

11:30-1:00pm	**Lunch** - Trillium AB

1:00-2:30pm	**Parallel Sessions**

Dogwood AB	**Network and Graphical Models**
	(organized by Hernando Ombao, UC Irvine; chaired by Yunzhang Zhu, Ohio State)
1:00-1:30pm	Ali Shojaie (University of Washington)
	Network Reconstruction from High Dimensional Ordinary Differential Equations
1:30-2:00pm	Lina Lin (University of Washington)
	Estimation of High-dimensional Graphical Models using Regularized Score Matching
2:00-2:30pm	Shuo Chen (University of Maryland)
	Network induced large covariance matrix estimation

Azalea AB	**Flexible Methods for Genomic data**
	(organized by Yufeng Liu, UNC; chaired by Guan Yu, UNC)
1:00-1:30pm	Wei Sun (Fred Hutchinson)
	A Two-Step Approach to Estimate the Skeletons of High-Dimensional Directed Acyclic Graphs

1:30-2:00pm	Yuying Xie (Michigan State University)
	Joint Estimation of Multiple Dependent Gaussian Graphical Models with Applications to Mouse Genomics
2:00-2:30pm	Dongmei Li (University of Rochester)
	An evaluation of statistical methods for RNA-Seq data analysis

Mountain Laurel AB   **Computational Methods in Statistics**

(organized and chaired by Sahand Neghaban, Yale Univ.)

1:00-1:30pm	Constantine Caramanis (UT Austin)
	High-dimensional EM algorithm
1:30-2:00pm	Amin Karbas (Yale University)
	Data as a Computational Resource: The Power of Data Summarization
2:00-2:30pm	Garvesh Raskutti (University of Wisconsin Madison)
	High-dimensional Poisson auto-regressive models for dynamic network modeling

Bellflower AB   **New developments for analyzing complex data**

(organized and chaired by Xingye Qiao, SUNY Binghamton)

1:00-1:30pm	Xi Chen (NYU)
	Optimal Stopping and Worker Selection in Crowdsourcing: an Adaptive Sequential Probability Ratio Test Framework
1:30-2:00pm	Jacob Bien (Cornell University)
	Lag Structured Modeling for High Dimensional Vector Autoregression
2:00-2:30pm	Ganggang Xu (Binghamton University)
	A simple averaged post-model-selection confidence interval

| 2:30-3:00pm | Break - Atrium Center |

| 3:00-4:30pm | **Parallel Sessions** |

Dogwood AB   **Causal Inference**

(organized and chaired by Eric Laber, NCSU)

3:00-3:30pm	Tyler McCormick (University of Washington)
	Standard errors for exchangeable relational arrays
3:30-4:00pm	Long Nguyen (University of Michigan)
	Bayesian Nonparametric Multilevel Clustering with Group-Level Contexts
4:00-4:30pm	Cynthia Rudin (MIT)
	Causal Falling Rule Lists

Azalea AB	**Machine Learning for Structured Data**
	(organized by Xiaotong Shen, Univ. Minnesota; chaired by Shu Lu, UNC)
3:00-3:30pm	Shuheng Zhou (University of Michigan)
	High-dimensional statistical modeling and estimation with matrix variate data
3:30-4:00pm	Xingye Qiao (Binghamton University)
	Noncrossing Ordinal Classification
4:00-4:30pm	Yunzhang Zhu (Ohio State University)
	High-dimensional Multivariate Regression

Mountain Laurel AB	**Inference for regularized estimation in high dimensions**
	(organized and chaired by Ali Shojaie, Univ. Washington)
3:00-3:30pm	Max G'Sell (CMU)
	Model selection via sequential goodness-of-fit testing
3:30-4:00pm	Mladen Kolar (University of Chicago)
	Post-Regularization Confidence Bands for High-Dimensional Nonparametric Models with Local Sparsity
4:00-4:30pm	Sen Zhao (University of Washington)
	High-Dimensional Hypothesis Testing with the Lasso

Bellflower AB	**New learning tools for complex data and beyond**
	(organized by Yufeng Liu, UNC; chaired by David Pritchard UNC)
3:00-3:30pm	J. Paul Brooks (Virginia Commonwealth University)
	Estimating L1-Norm Best-Fit Lines
3:30-4:00pm	Chengyong Tang (Temple University)
	Precision Matrix Estimation by Inverse Principal Orthogonal Decomposition
4:00-4:30pm	Mu Zhu (University of Waterloo)
	Networks, Small G Proteins, and Basketball Games

4:30-6:30pm	**Poster Session** - Atrium Center

6:30-8:30pm	**Banquet** - Trillium AB
	Speaker: J.S. Marron (UNC)

• June 7

Wednesday, June 8

7:30-8:30am	Continental Breakfast - Atrium Center

8:30-10:00am	**Parallel Sessions**

Dogwood AB — **Machine learning for precision medicine**

(organized by Yufeng Liu, UNC; chaired by Dacheng Liu, Boehringer Ingelheim)

8:30-9:00am	Donglin Zeng (UNC)
	Estimating Personalized Diagnostic Rules via Weighted Support Vector Machines
9:00-9:30am	Yingqi Zhao (Fred Hutchinson)
	Develop Parsimonious and Robust Treatment Strategies for Target Populations
9:30-10:00am	Haoda Fu (Eli Lily)
	Personalized Medicine, Machine Learning and Artificial Intelligence: Challenges and Opportunities

Azalea AB — **New developments on sufficient dimension reduction and envelope estimation**

(organized and chaired by Yichao Wu, NCSU)

8:30-9:00am	Andreas Artemiou (Cardiff University)
	Robustifying sufficient dimension reduction against inliers and outliers
9:00-9:30am	Zhihua Su (University of Florida)
	Groupwise Envelope Models for Imaging Genetic Analysis
9:30-10:00am	Xin Zhang (Florida State University)
	Some Recent Advances in Envelope Methodology

Mountain Laurel AB — **New Sparse Methods for Regression and Classification**

(organized by Hao Helen Zhang; University of Arizona; chaired by Zhigen Zhao, Temple Univ.)

8:30-9:00am	Ning Hao (University of Arizona)
	A rotate-and-solve procedure for high dimensional classification
9:00-9:30am	Gen Li (Columbia University)
	Supervised Integrative Principal Component Analysis
9:30-10:00am	Sijian Wang (University of Wisconsin Madison)
	Sparse additive index model for group variable selection

10:00-10:30am	Break - Atrium Center

10:30-11:30am Dogwood AB	**Plenary Talk** (chaired by Eric Laber, NCSU) Michael R. Kosorok, UNC *The Evolution of Data Science and Statistics*

11:30-1:00pm	**Lunch** - Trillium AB

1:00-2:30pm	**Parallel Sessions**

Dogwood AB	**Data Integration and Meta Analysis**
	(organized and chaired by Quefeng Li, UNC)
1:00-1:30pm	Haitao Chu (University of Minnesota)
	Bayesian Hierarchical Models for Multiple Diagnostic Tests Meta-analysis
1:30-2:00pm	Shuangge Ma (Yale University)
	Integrating multidimensional omics data for cancer prognosis
2:00-2:30pm	Chi Song (Ohio State University)
	A Bayesian Method for Transcriptomic Meta-analysis – Exploring the Homogeneity and Heterogeneity

Azalea AB	**Flexible Learning Tools and Applications**
	(organized and chaired by Yuying Xie, MSU)
1:00-1:30pm	Wei Sun (Yahoo)
	Provable Sparse Tensor Decomposition and Its Application to Personalized Recommendation
1:30-2:00pm	Peng Wang (University of Cincinnati)
	Selection by Partitioning the Solution Paths
2:00-2:30pm	Tian Zheng (Columbia University)
	Topic-adjusted visibility metric for scientific articles

Mountain Laurel AB	**New Sparse Learning Techniques**
	(organized by Yin Xia, UNC; chaired by Jingxiang Chen UNC)
1:00-1:30pm	Botao Hao (Purdue University)
	Simultaneous Clustering and Estimation of Multiple Graphical Models
1:30-2:00pm	Aaron Molstad (University of Minnesota)
	Indirect multivariate response linear regression

2:00-2:30pm	Xue Wang (Penn. State University)
	Folded Concave Penalized Nonconvex Learning via a Modern Optimization Lens
2:30-3:00pm	Break - Atrium Center

3:00-4:30pm	**Parallel Sessions**

Dogwood AB	**Data Science and Networks: Methodology and Applications**
	(organized and chaired by Shankar Bhamidi, UNC)
3:00-3:30pm	Bailey Fosdick (Colorado State University)
	Multiresolution models for networks
3:30-4:00pm	Anand Vidhyashankar (George Mason University)
	Implicit Networks in High Dimensional Problems
4:00-4:30pm	James Wilson (University of San Francisco)
	A Significance-based Community Extraction Method for Multi-layer Networks

Azalea AB	**Industrial Applications**
	(organized by Cynthia Rudin, MIT; chaired by J. Paul Brooks, Virginia Commonwealth Univ.)
3:00-3:30pm	Veena Mendiratta (Bell Labs, Alcatel-Lucent)
	Anomaly Detection in Wireless Networks using Mobile Phone Data
3:30-4:00pm	Matthew Lanham (Virginia Tech)
	A Framework for Combining Statistical & Business KPIs for Low-Turn Product Forecasts
4:00-4:30pm	Roshanak Nateghi (Purdue University)
	Predicting Observed GRACE Satellite Groundwater Storage Trends Using Data in 81 Countries

Mountain Laurel AB	**Modern Statistical Learning Methods for Big Data**
	(organized by Yingying Fan USC; chaired by Siliang Gong UNC)
3:00-3:30pm	Will Fithian (UC Berkeley)
	Local Case-Control Sampling: Efficient subsampling in imbalanced data sets
3:30-4:00pm	Kun Chen (University of Connecticut)
	Sequential Estimation in Sparse Factor Regression
4:00-4:30pm	Yuekai Sun (UC Berkeley)
	Feature distributed sparse regression

1. Anthony S. Abrantes (UNC)

    Classifying EEG data for working memory load

2. Xuan Bi (UIUC)

    A Group-Specific Recommender System

3. Kelly Bodwin (UNC)

    Coherent Itemset Mining

4. Frederick Campbell (Rice University)

    Within Group Variable Selection through the Exclusive Lasso

5. Jingxiang Chen (UNC)

    Estimating Individualized Treatment Rules for Ordinal Treatments

6. Glen Colopy (University of Oxford)

    Personalized Patient Monitoring with Gaussian Processes using Fast Adaptive Kernel Selection

7. Derek Feng (Yale University)

    ABtree: An Algorithm for Subgroup-Based Treatment Assignment

8. Siliang Gong (UNC)

    Testing-based Variable Selection for High-dimensional Linear Models

9. Nhat Ho (University of Michigan)

    Singularity Structures and Parameter Estimation in Finite Mixtures of Skew Normal Distributions

10. Wenhao Hu (NCSU)

    Assessing Tuning Parameter Selection Variability in Penalized Regression

11. Meilei Jiang (UNC)

    A Novel Method for Identifying Community Subtypes in the Sparse Microbiome of the Infected Lower Lung

12. Dehan Kong (UNC)

    High-dimensional Matrix Linear Regression Model

13. Vered Madar (SAMSI)

    New and Simpler Algebraic Framework for Generating Correlated Random Variables

14. Christian Mueller (Simons Foundation)

    Generalized Stability Approach for Regularized Graphical Models

15. John Palowitch (UNC)

    The Continuous Configuration Model: A Null for Community Detection on Weighted Networks

16. So-Young Park (NCSU)

    Functional data analysis for quantile regression modeling, with application to feed intake of lactating sows

17. David Pritchard (UNC)

     Composite Quantile-based Classifiers

18. Mauricio Sadinle Garcia-Ruiz (Duke and NISS)

     Set-Valued Multiclass Classifiers: Lowest Ambiguity with Bounded Error Levels

19. Andrey Skripnikov (University of Florida)

     Estimation of Multi-Granger Network Causal Models

20. Samuel Ventura (CMU)

     PREDS: Prediction with Ensembles using Distribution Summaries

21. Kristopher Williams (University of Texas at San Antonio)

     Unsupervised Outlier Detection Using Robust Locally Weighted Density Estimation

22. Zidian Xie (University of Rochester)

     Building a Predictive Model for Type 2 Diabetes Using Machine Learning

23. Guan Yu (UNC)

     Sparse Regression for Block-missing Multi-modality Data

24. Zheqi Zhang (UNC)

     Efficient Gauss-Newton-type Algorithms for Low-Rank Matrix Optimization

25. Yi Zhao (Brown University)

     Pathway Lasso: Estimate and Select Sparse Mediation Pathways with High Dimensional Mediators

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