Conference on Statistical Learning and Data Science

• Schedule •

June 6-8, 2016
Chapel Hill, NC
Contents

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List of Participants ............................................................................. 18

Map

[Map of Courtyard Chapel Hill and Friday Center]
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
- 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

Organizing Committee
- 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)

Program Committee
- Genevera Allen (Rice University)
- Yingying Fan (University of Southern California)
- Han Liu (Princeton University)
- Sahand Negahban (Yale University)
- Hernando Ombao (University of California, Irvine)
- Annie Qu (University of Illinois Urbana-Champaign)
- Karl Rohe (University of Wisconsin Madison)
- Ali Shojaie (University of Washington)
- Richard Smith (SAMSI & University of North Carolina)
- Matt Taddy (University of Chicago)
- Robert Warnock (UCB Biosciences Inc.)
- Yuying Xie (Michigan State University)
- Yan Xu (SAS Institute)
- Hao Helen Zhang (University of Arizona)
- Ji Zhu (University of Michigan)

Local Committee
- David Banks (Duke University)
- Shankar Bhamidi (University of North Carolina)
- Siliang Gong (University of North Carolina)
- Eric Laber (North Carolina State University)
- Jan Hannig (University of North Carolina)
- Quefeng Li (University of North Carolina)
- J. S. Marron (University of North Carolina)
- Andrew Nobel (University of North Carolina)
- Yichao Wu (North Carolina State University)
- Yin Xia (University of North Carolina)
- Donglin Zeng (University of North Carolina)
- Kai Zhang (University of North Carolina)
# SLDS 2016

## Schedule

### Monday, June 6

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30-8:30am</td>
<td>Registration &amp; Continental Breakfast - Atrium Center</td>
</tr>
<tr>
<td>8:30-8:55am</td>
<td><strong>Welcome</strong>&lt;br&gt;Professor Amarjit Budhiraja&lt;br&gt;Chair, Department of Statistics and Operations Research, UNC</td>
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<tr>
<td>9:00-10:30am</td>
<td><strong>Parallel Sessions</strong></td>
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<td></td>
<td><strong>Theoretical Statistical Learning</strong>&lt;br&gt;(organized by Yin Xia, UNC; chaired by Jan Hannig, UNC)</td>
</tr>
<tr>
<td>9:00-9:30am</td>
<td>Florentina Bunea (Cornell University)&lt;br&gt;<em>Minimax Optimal Variable Clustering in G-Models</em></td>
</tr>
<tr>
<td>9:30-10:00am</td>
<td>Andrew Nobel (UNC)&lt;br&gt;<em>Large Average Submatrices of a Gaussian Random Matrix: Behavior of Global and Local optima</em></td>
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<tr>
<td>10:00-10:30am</td>
<td>Kai Zhang (UNC)&lt;br&gt;<em>Packing Inference of Correlation for an Arbitrarily Large Number of Variables</em></td>
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<td></td>
<td><strong>Distributed Optimization Methods for Machine Learning</strong>&lt;br&gt;(organized and chaired by Yan Xu, SAS)</td>
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<tr>
<td>9:00-9:30am</td>
<td>Alireza Yektamaram (Lehigh University and SAS)&lt;br&gt;<em>A Nonconvex Hessian-free Method for Deep Learning Problems</em></td>
</tr>
<tr>
<td>9:30-10:00am</td>
<td>Jorge Silva (SAS)&lt;br&gt;<em>Learning Good Ensembles: New Approaches</em></td>
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<tr>
<td>10:00-10:30am</td>
<td>Patrick Koch (SAS)&lt;br&gt;<em>Local Search Optimization for Hyper-Parameter Tuning</em></td>
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<td><strong>Applied Learning and Analysis</strong>&lt;br&gt;(organized and chaired by Cynthia Rudin, MIT)</td>
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<tr>
<td>9:00-9:30am</td>
<td>John Guerard (McKinley Capital Mgt., LLC)&lt;br&gt;<em>Robust Regression and Data Mining of Financial Data</em></td>
</tr>
<tr>
<td>9:30-10:00am</td>
<td>Edward McFowland III (University of Minnesota)&lt;br&gt;<em>Efficient Identification of Heterogeneous Treatment Effects in Randomized Experiments via Anomalous Pattern Detection</em></td>
</tr>
</tbody>
</table>
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 **Plenary Talk** (chaired by Richard Smith, SAMSI & UNC)  
Bin Yu, UC Berkeley

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 Yunzhang Zhu (Ohio State University)  
*High-dimensional Multivariate Regression*

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*
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)

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*
# SLDS 2016

## Tuesday, June 7

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>7:30-8:30am</td>
<td>Continental Breakfast - Atrium Center</td>
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<tr>
<td>8:30-10:00am</td>
<td><strong>Parallel Sessions</strong></td>
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### 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 **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*
<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>1:30-2:00pm</td>
<td>Yuying Xie (Michigan State University)</td>
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<td><em>Joint Estimation of Multiple Dependent Gaussian Graphical Models with Applications to Mouse Genomics</em></td>
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<tr>
<td>2:00-2:30pm</td>
<td>Dongmei Li (University of Rochester)</td>
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<td><em>An evaluation of statistical methods for RNA-Seq data analysis</em></td>
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**Mountain Laurel AB**  
**Computational Methods in Statistics**  
(organized and chaired by Sahand Negahban, Yale Univ.)

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<tr>
<td>1:00-1:30pm</td>
<td>Constantine Caramanis (UT Austin)</td>
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<td><em>High-dimensional EM algorithm</em></td>
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<td>1:30-2:00pm</td>
<td>Sahand Negahban (Yale University)</td>
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<td><em>Restricted Strong Convexity and Weak Submodularity</em></td>
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<td>2:00-2:30pm</td>
<td>Garvesh Raskutti (University of Wisconsin Madison)</td>
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<td><em>High-dimensional Poisson auto-regressive models for dynamic network modeling</em></td>
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**Bellflower AB**  
**New developments for analyzing complex data**  
(organized and chaired by Xingye Qiao, SUNY Binghamton)

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<tr>
<td>1:00-1:30pm</td>
<td>Xi Chen (NYU)</td>
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<td><em>Optimal Stopping and Worker Selection in Crowdsourcing: an Adaptive Sequential Probability Ratio Test Framework</em></td>
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<td>1:30-2:00pm</td>
<td>Jacob Bien (Cornell University)</td>
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<td><em>Lag Structured Modeling for High Dimensional Vector Auto-regression</em></td>
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<tr>
<td>2:00-2:30pm</td>
<td>Ganggang Xu (Binghamton University)</td>
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<td><em>A simple averaged post-model-selection confidence interval</em></td>
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<th>Time</th>
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<tbody>
<tr>
<td>2:30-3:00pm</td>
<td>Break - Atrium Center</td>
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<th>Time</th>
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<tbody>
<tr>
<td>3:00-4:30pm</td>
<td>Parallel Sessions</td>
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**Dogwood AB**  
**Causal Inference**  
(organized and chaired by Eric Laber, NCSU)

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<tr>
<td>3:00-3:30pm</td>
<td>Tyler McCormick (University of Washington)</td>
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<td><em>Standard errors for exchangeable relational arrays</em></td>
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<td>3:30-4:00pm</td>
<td>Long Nguyen (University of Michigan)</td>
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<td><em>Bayesian Nonparametric Multilevel Clustering with Group-Level Contexts</em></td>
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<td>4:00-4:30pm</td>
<td>Cynthia Rudin (MIT)</td>
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<td><em>Causal Falling Rule Lists</em></td>
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</tbody>
</table>
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 Cun-Hui Zhang (Rutgers University)  
*Nonparametric Shrinkage Estimation*

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)
### Wednesday, June 8

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:30-8:30am</td>
<td>Continental Breakfast - Atrium Center</td>
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<td>8:30-10:00am</td>
<td><strong>Parallel Sessions</strong></td>
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<tr>
<td><strong>Dogwood AB</strong></td>
<td><strong>Machine learning for precision medicine</strong></td>
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<tr>
<td>8:30-9:00am</td>
<td>Donglin Zeng (UNC)</td>
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<td><em>Estimating Personalized Diagnostic Rules via Weighted Support Vector Machines</em></td>
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<td>9:00-9:30am</td>
<td>Yingqi Zhao (Fred Hutchinson)</td>
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<td><em>Develop Parsimonious and Robust Treatment Strategies for Target Populations</em></td>
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<td>9:30-10:00am</td>
<td>Haoda Fu (Eli Lilly)</td>
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<td><em>Personalized Medicine, Machine Learning and Artificial Intelligence: Challenges and Opportunities</em></td>
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<tr>
<td><strong>Azalea AB</strong></td>
<td><strong>New developments on sufficient dimension reduction and envelope estimation</strong></td>
</tr>
<tr>
<td>8:30-9:00am</td>
<td>Andreas Artemiou (Cardiff University)</td>
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<td><em>Robustifying sufficient dimension reduction against inliers and outliers</em></td>
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<td>9:00-9:30am</td>
<td>Zhihua Su (University of Florida)</td>
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<td><em>Groupwise Envelope Models for Imaging Genetic Analysis</em></td>
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<td>9:30-10:00am</td>
<td>Xin Zhang (Florida State University)</td>
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<td><em>Some Recent Advances in Envelope Methodology</em></td>
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<tr>
<td><strong>Mountain Laurel AB</strong></td>
<td><strong>New Sparse Methods for Regression and Classification</strong></td>
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<tr>
<td>8:30-9:00am</td>
<td>Ning Hao (University of Arizona)</td>
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<td><em>A rotate-and-solve procedure for high dimensional classification</em></td>
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<td>9:00-9:30am</td>
<td>Gen Li (Columbia University)</td>
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<td><em>Supervised Integrative Principal Component Analysis</em></td>
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<td>9:30-10:00am</td>
<td>Sijian Wang (University of Wisconsin Madison)</td>
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<td><em>Sparse additive index model for group variable selection</em></td>
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*June 8*
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<th>Time</th>
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<tr>
<td>10:00-10:30am</td>
<td>Break - Atrium Center</td>
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<tr>
<td>10:30-11:30am</td>
<td>Plenary Talk (chaired by Eric Laber, NCSU)</td>
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<tr>
<td>Dogwood AB</td>
<td>Michael R. Kosorok, UNC</td>
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<tr>
<td></td>
<td><em>The Evolution of Data Science and Statistics</em></td>
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<tr>
<td>11:30-1:00pm</td>
<td>Lunch - Trillium AB</td>
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<tr>
<td>1:00-2:30pm</td>
<td>Parallel Sessions</td>
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**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*
<table>
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<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>2:00-2:30pm</td>
<td>Xue Wang (Penn. State University)</td>
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<td><em>Folded Concave Penalized Nonconvex Learning via a Modern Optimization Lens</em></td>
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<td>2:30-3:00pm</td>
<td>Break - Atrium Center</td>
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<td>3:00-4:30pm</td>
<td><strong>Parallel Sessions</strong></td>
<td>Dogwood AB</td>
<td>Bailey Fosdick (Colorado State University)</td>
<td><em>Multiresolution models for networks</em></td>
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<td></td>
<td><strong>Data Science and Networks: Methodology and Applications</strong></td>
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<td>Anand Vidhyashankar (George Mason University)</td>
<td><em>Implicit Networks in High Dimensional Problems</em></td>
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<td>James Wilson (University of San Francisco)</td>
<td><em>A Significance-based Community Extraction Method for Multi-layer Networks</em></td>
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<td>Azalea AB</td>
<td>Veena Mendiratta (Bell Labs, Nokia)</td>
<td><em>Anomaly Detection in Wireless Networks using Mobile Phone Data</em></td>
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<td>Matthew Lanham (Virginia Tech)</td>
<td><em>A Framework for Combining Statistical &amp; Business KPIs for Low-Turn Product Forecasts</em></td>
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<td>C. Bayan Bruss (Accenture)</td>
<td><em>When the Well Runs Dry: Predicting Observed GRACE Satellite Groundwater Storage Trends Using Data in 81 Countries</em></td>
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<td>Mountain Laurel AB</td>
<td>Will Fithian (UC Berkeley)</td>
<td><em>Local Case-Control Sampling: Efficient subsampling in imbalanced data sets</em></td>
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<td>Kun Chen (University of Connecticut)</td>
<td><em>Sequential Estimation in Sparse Factor Regression</em></td>
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<td>Yuekai Sun (UC Berkeley)</td>
<td><em>Feature distributed sparse regression</em></td>
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</tbody>
</table>

*June 8*
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)
   *Efficient 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. Qunqun Yu (UNC)
    *JIVE integration of imaging and behavioral data*

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
26. Hyowon An (UNC)  
   Gaussian Centered L-moments
| PARTICIPANTS |
|--------------|----------------------------------------------------------|
| Abrantes, Anthony | UNC-Chapel Hill |
| Adeli Mosabbeb, Ehsan | UNC-Chapel Hill |
| Allen, Genevera | Rice University |
| An, Hyowon | UNC-Chapel Hill |
| Artemiou, Andreas | Cardiff University |
| Bhamidi, Sreekalyani | UNC-Chapel Hill |
| Bi, Xuan | University of Illinois |
| Bien, Jacob | Cornell University |
| Bodwin, Kelly | UNC-Chapel Hill |
| Brinkley, Jason | American Institutes for Research |
| Brooks, Paul | Virginia Commonwealth University |
| Bruss, Christopher | Accenture |
| Budhiraja, Amarjit | UNC-Chapel Hill |
| Bunea, Florentina | Cornell University |
| Campbell, Frederick | Rice University |
| Cao, Xiaohuan | UNC-Chapel Hill |
| Caramanis, Constantine | The University of Texas at Austin |
| Chari, Manoj | SAS Institute Inc. |
| Chen, Ding-geng | UNC-Chapel Hill |
| Chen, Jingxiang | UNC-Chapel Hill |
| Chen, Kun | University of Connecticut |
| Chen, Shuo | University of Maryland, College Park |
| Chen, Xi | New York University |
| Chu, Haitao | University of Minnesota |
| Clark, Scott | Eli Lilly and Company |
| Colopy, Glen | University of Oxford |
| Colopy, Michael | UCB Biosciences |
| Dula, Jose | Virginia Commonwealth University |
| Feng, Derek | Yale University |
| Fithian, William | UC Berkeley |
| Fosdick, Bailey | Colorado State University |
| Francis, Owen | UNC-Chapel Hill |
| Froehlich, Holger | UCB Biosciences GmbH |
| Fu, Haoda | Eli Lilly and Company |
| G’Sell, Maxwell | Carnegie Mellon University |
| Gao, Xiaoli | UNC Greensboro |
| Goldstein, Benjamin | Duke University |
| Golovidov, Oleg | SAS Institute Inc. |
| Gong, Siliang | UNC-Chapel Hill |
| Griffin, Joshua | SAS Institute Inc. |
| Guerard, John | McKinley Capital Management, LLC |
| Han, Fang | University of Washington |
| Hannah, Lauren | Columbia University |
| Hannig, Jan | UNC-Chapel Hill |
Hao, Botao
Purdue University

Hao, Ning
University of Arizona

Ho, Nhat
University of Michigan, Ann Arbor

Hu, Wenhai
North Carolina State University

Huang, Jie
UNC-Chapel Hill

Javanmard, Adel
University of Southern California

Jiang, Meilei
UNC-Chapel Hill

Kabul, Ilknur
SAS Institute Inc.

Karbasi, Amin
Yale University

Koch, Patrick
SAS Institute Inc.

Kolar, Mladen
The University of Chicago

Kong, Dehan
UNC-Chapel Hill

Kosorok, Michael
UNC-Chapel Hill

Lanham, Matthew
Virginia Tech

Le, Can
University of Michigan

Lederrer, Johannes
University of Washington

Li, Dongmei
University of Rochester

Li, Gang
UNC-Chapel Hill

Li, Gen
Columbia University

Li, Quefeng
UNC-Chapel Hill

Li, Weiwei
UNC-Chapel Hill

Li, Zhonghua
Nankai University

Lin, Lina
University of Washington

Liu, Han
Princeton University

Liu, Jianyu
UNC-Chapel Hill

Liu, Jun
SAS Institute Inc.

Liu, Liu
Sichuan Normal University

Liu, Suyu
UT MD Anderson Cancer Center

Liu, Yufeng
UNC-Chapel Hill

Liu, Yunxiao
UNC-Chapel Hill

Lu, Shu
UNC-Chapel Hill

Luo, Xi
Brown University

Ma, Ping
University of Georgia

Ma, Shuangge
Yale University

Madar, Vered
SAMSI

Mai, Qing
Florida State University

Mankad, Shawn
Cornell University

Marron, James
UNC-Chapel Hill

McCormick, Tyler
University of Washington

McFowland, Edward
University of Minnesota

Melechko, Anatoli
SAS Institute Inc.

Mendiratta, Veena
Bell Labs, Nokia

Molstad, Aaron
University of Minnesota

Mueller, Christian
Simons Foundation

Murphy, Susan
University of Michigan

Nateghi, Roshanak
Purdue University

Negahban, Sahand
Yale University

Nguyen, XuanLong
University of Michigan
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution/University</th>
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<tbody>
<tr>
<td>Andrew Nobel</td>
<td>UNC-Chapel Hill</td>
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<tr>
<td>Rebecca Nugent</td>
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<td>Peiyong Qu</td>
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<td>Garvesh Raskutti</td>
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<td>Islem Rekik</td>
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<td>Daniel Roy</td>
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<td>Jun Wang</td>
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<tr>
<td>Robert Warnock</td>
<td>UCB Biosciences Inc.</td>
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Williams, Kristopher
University of Texas at San Antonio

Wilson, James
University of San Francisco

Wood, Ian
University of Queensland

Wu, Ruoyu
UNC-Chapel Hill

Wu, Yichao
North Carolina State University

Wu, Zhengwang
UNC-Chapel Hill

Xie, Yuying
Michigan State University

Xie, Zidian
University of Rochester

Xu, Ganggang
SUNY-Binghamton

Xu, Yan
SAS Institute Inc.

Yao, Yonggang
SAS Institute Inc.

Yektamaram, Alireza
SAS Institute Inc.

Yin, Junming
University of Arizona

Yu, Bin
University of California, Berkeley

Yu, Guan
UNC-Chapel Hill

Yu, Renping
UNC-School of Medicine

Yuan, Ming
University of Wisconsin-Madison

Zeng, Donglin
UNC-Chapel Hill

Zhang, Anru
University of Wisconsin-Madison

Zhang, Cun-Hui
Rutgers University

Zhang, Heping
Yale University

Zhang, Kai
UNC-Chapel Hill

Zhang, Xin "Henry"
Florida State University

Zhang, Yuan
University of Michigan

Zhang, Zhengwu
UNC-Chapel Hill

Zhang, Zheqi
UNC-Chapel Hill

Zhao, Sen
University of Washington

Zhao, Yi
Brown University

Zhao, Yingqi
Fred Hutchinson Cancer Research Center

Zhao, Zhigen
Temple University

Zheng, Tian
Columbia University

Zhong, Ping-Shou
Michigan State University

Zhou, Shuheng
University of Michigan

Zhou, Wenwen
SAS Institute Inc.

Zhu, Mu
University of Waterloo

Zhu, Xiaofeng
UNC-Chapel Hill

Zhu, Yunzhang
The Ohio State University
Conference on
Statistical Learning
and
Data Science

Department of Statistics and
Operations Research
Department of Biostatistics
University of North Carolina
at Chapel Hill
Chapel Hill, NC