

2019 Rutgers Statistics Symposium: *Tomorrow's Statistics for Today's Data*

May 2–3, 2019

*Proteomics Building, Room 120, Busch Campus
Rutgers, The State University of New Jersey*

Program

Thursday, May 2

8:30am – 9:00am: Breakfast

9:00am – 9:20am: Opening Remarks

Ronald Ransome **MPS Dean, School of Arts and Sciences, Rutgers University**

Stephen K. Burley **University Professor and Henry Rutgers Chair; Founding
Director, Institute for Quantitative Biomedicine, Rutgers University**

Regina Liu **Chair, Department of Statistics, Rutgers University**

9:20am – 9:40am:

Speaker: **Stephen K. Burley, M.D., D.Phil. Director, RCSB Protein Data Bank
“RCSB Protein Data Bank: Sustaining a Living Digital Data Resource”**

(9:40am – 10:00am: Break)

Session I: **Chair – William Strawderman, Rutgers University**

10:00am – 11:00am:

Speaker: **Michael Stein, The University of Chicago & Rutgers University
“Statistical Extremes: Theory and Practice”**

Discussant: **Ying Hung, Rutgers University**

11:00am – 12:00pm:

Speaker: **Marc Suchard, University of California, Los Angeles
“Large-scale Evidence Generation across a Network of Databases (LEGEND)
for Hypertension: Real-world, Reliable and Reproducible”**

Discussant: **Harry Crane, Rutgers University**

(Noon – 1:00pm: Lunch Break)

Session II: Chair – David Tyler, Rutgers University

1:00pm – 2:00pm:

Speaker: Howard Bondell, The University of Melbourne, Australia
“Tales of Multiple Regression: Informative Missingness, Recommender Systems, and R2-D2”

Discussant: Robin Gong, Rutgers University

2:00pm – 3:00pm:

Speaker: Arnak Dalalyan, ENSAE-CREST (Center for Research in Economics and Statistics, Paris), France
“Robust Sparse Regression by Convex Programming”

Discussant: Zijian Guo, Rutgers University

(3:00pm – 3:20pm: Break)

Session III: Chair – Rong Chen, Rutgers University

3:20pm – 4:20pm:

Speaker: Axel Munk, University of Göttingen, Germany
“Optimal Transport based Data Analysis: Inference, Algorithms, Applications”

Discussant: Roy Han, Rutgers University

4:20pm – 5:20pm:

Speaker: Richard Davis, Columbia University
“The Use of Shape Constraints for Modeling Time Series of Counts”

Discussant: Han Xiao, Rutgers University

5:20pm – 6:00pm: *Wine and Cheese Reception*

Friday, May 3

8:30am – 9:00am: Breakfast

Session IV: Chair – Cun-Hui Zhang, Rutgers University

9:00am – 10:00am:

Speaker: Jianqing Fan, Princeton University
“Communication and Statistical Efficient Distributed Estimation”

Discussant: Pierre Bellec, Rutgers University

(10:00am – 10:20am: Break)

Session V: Chair – Minge Xie, Rutgers University

10:20am – 11:20am:

Speaker: Dylan Small, The University of Pennsylvania
“Discovering Effect Modification in Observational Studies”

Discussant: Tirthankar Dasgupta, Rutgers University

11:20am – 12:20pm:

Speaker: Jennifer Hill, New York University
“Automated versus Do-it-yourself Methods for Causal Inference: Lessons Learned from a Data Analysis Competition”

Discussant: Steve Buyske, Rutgers University

(12:20pm – 1:00pm: Lunch Break)

Session VI: Chair – John Kolassa, Rutgers University

1:00pm – 2:00pm:

Speaker: David Siegmund, Stanford University
“Detection and Estimation of Local Signals”

Discussant: Min Xu, Rutgers University

2:00pm – 3:00pm:

Speaker: Samuel Kou, Harvard University
“Big Data, Google and Disease Detection: A Statistical Adventure”

Discussant: Sijian Wang, Rutgers University

(3:00pm – 3:20pm: Break)

Session VII: Chair – Harold Sackrowitz, Rutgers University

3:20pm – 4:20pm:

Speaker: John Lafferty, Yale University
“Statistical Estimation and Machine Learning with Communication and Shape Constraints”

Discussant: Jason Klusowski, Rutgers University

Organizing Committee:

Pierre Bellec (co-chair), Steve Buyske, Harry Crane, Tirthankar Dasgupta, Robin Gong, Zijian Guo, Roy Han, Ying Hung, Jason Klusowski, Sijian Wang, Han Xiao, Min Xu, Cun-Hui Zhang (co-chair)

Conference Coordinator:

Marcy Collins: mcollins@stat.rutgers.edu

For more information and registration: <http://www.stat.rutgers.edu/>