

# Rutgers Workshop on Big Data: *Theoretical Foundation of Big Data*

Department of Statistics, Department of Computer Science  
Rutgers, The State University of New Jersey

*Thursday, October 16, 2014*

*CoRE Auditorium, Busch Campus, Rutgers University, Piscataway, NJ*

## Program

12:15pm – 12:45pm: *Lunch*

12:45pm – 1:05pm: Welcome and Introduction of Big Data Research at Rutgers

Regina Liu, Chair, Department of Statistics and Biostatistics, Rutgers University  
Dimitris Metaxas, Chair, Department of Computer Science, Rutgers University  
Ping Li, Department of Statistics, Department of Computer Science

1:05pm – 2:00pm:

Chair: Mario Szegedy, Rutgers University

Speaker: Mikkel Thorup, University of Copenhagen

[“The Power of Tabulation Hashing”](#)

2:00pm – 2:55pm:

Chair: Lee Dicker, Rutgers University

Speaker: Dean Foster, Yahoo Labs, NYC & University of Pennsylvania

[“Stepwise Regression: The Red-headed Stepchild of Statistics”](#)

2:55pm – 3:15pm: *Coffee Break*

3:15pm – 4:10pm:

Chair: Dan Yang, Rutgers University

Speaker: Eric Xing, Carnegie Mellon University

[“On Data Parallelism and Model Parallelism for Large Scale Machine Learning”](#)

4:10pm – 5:05pm:

Chair: Rebecca Wright, Rutgers University

Speaker: Robert Schapire, Microsoft Research & Princeton University

[“A Fast and Simple Algorithm for the Contextual Bandits Problem”](#)



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