SCHEDULE
JUNE 23, 2017

AM Session Chair: Emmanuel Candès
9:00 - 9:10 OPENING REMARKS
9:10 - 9:50 Peter Bickel
9:50 - 10:30 Yoav Benjamini
10:30 - 11:00 BREAK
11:00 - 11:40 Oleg Lepski
11:40 - 12:20 Nourreddine El Karoui
12:20 - 1:40 LUNCH

PM Session Chair: Iain Johnstone
1:40 - 2:20 Peter Rousseeuw
2:20 - 3:00 Jianqing Fan
3:00- 3:30 BREAK
3:30 - 4:10 Jiashun Jin
4:10 - 4:50 Brian Wandell
4:50 END

NEARBY LUNCH SPOTS

1. Bytes Cafe
2. Coupa Cafe
3. Forbes Family Cafe
4. Treehouse & COHO
5. Tresidder Union Cafeteria (Subway, Panda Express, Starbucks, Jamba Juice)
Morning Speakers

Peter Bickel
Professor Emeritus of Statistics, UC Berkeley
"Projection Pursuit in High Dimensions or Projection Pursuit Revisited for P~N"

Yoav Benjamini
The Nathan and Lily Silver Professor of Applied Statistics, Tel Aviv University
"Selective Inference in Hierarchical High Dimension Data Analysis"

Oleg Lepski
Professor, Aix-Marseille Université
"Estimation in the Convolution Structure Density Model"

Noureddine El Karoui
Professor of Statistics, UC Berkeley
"Can We Trust the Bootstrap (for Moderately Difficult Statistical Problems)?"

Peter Rousseeuw
Professor, University of Leuven
"An Extension of the Stahel-Donoho Outlyingness"

Jianqing Fan
Frederick Moore '18 Professor of Finance, ORFE, Princeton University
"Robust Inference for High-Dimensional Data with Application to False Discovery Rate Control"

Jiashun Jin
Professor of Statistics, Carnegie Mellon University
"Cancer Subject Clustering by Important-Feature PCA"

Brian Wandell
Isaac & Madeline Stein Family Professor, Dept. of Psychology, Stanford University
"Diagnosing the Neural Circuitry of Reading Impairment"

Afternoon Speakers

VISITOR WIFI:
"Stanford Visitor"

CONFERENCE WEBSITE:
www.mathstatsxdonoho60.com

ORGANIZERS
Emmanuel Candes | Iain Johnstone
Ery Arias-Castro | Michael Elad
Dominique Picard | Jared Tanner

SIMONS FOUNDATION
We acknowledge the support of the Simons Foundation through the Math+X program.
## Schedule

**June 24, 2017**

**AM Session Chair: Jared Tanner**

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<tr>
<th>Time</th>
<th>Speaker</th>
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<tr>
<td>9:40 - 10:20</td>
<td>Stephane Mallat</td>
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<td>10:20 - 10:50</td>
<td>BREAK</td>
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<td>10:50 - 11:30</td>
<td>George Papanicolaou</td>
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<td>11:30 - 12:10</td>
<td>Ronald DeVore</td>
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<td>12:10 - 1:30</td>
<td>LUNCH</td>
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**PM Session Chair: Michael Elad**

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<tr>
<td>1:30 - 2:10</td>
<td>Thomas Strohmer</td>
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<td>2:10 - 2:50</td>
<td>Arian Maleki</td>
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<td>2:50 - 3:20</td>
<td>BREAK</td>
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<td>3:20 - 4:00</td>
<td>Emery Brown</td>
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<td>4:00 - 4:40</td>
<td>Richard Baraniuk</td>
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### Nearby Lunch Spots

1. Bytes Cafe  
2. Coupa Cafe  
3. Forbes Family Cafe  
4. Treehouse & COHO  
5. Tresidder Union Cafeteria  
   (Subway, Panda Express, Starbucks, Jamba Juice)
Morning

SPEAKERS

Stephane Mallat
Professor,
Ecole Normale Superieure, France
"Estimation of Multiscale High-Dimensional Distributions"

George Papanicolaou
Robert Grimmett Professor of Mathematics,
Stanford University
"Imaging with Intensities Only"

Ronald DeVore
Walter E. Koss Professor of Mathematics,
Texas A&M University
"Data Processing"

Afternoon

SPEAKERS

Thomas Strohmer
Professor, Department of Mathematics,
UC Davis
"Adventures in Blind Deconvolution"

Arian Maleki
Assistant Professor of Statistics,
Columbia University
"A Fair Comparison Among Regularization Techniques"

Emery Brown
Warren M. Zapol Prof. of Anesthesia - Harvard Prof. of Computational Neuroscience,
Edward Hood Taplin Prof. of Medical Engineering,
Massachusetts Institute of Technology
"Uncovering the Mechanisms of General Anesthesia: Where Neuroscience Meets Statistics"

Richard Baraniuk
Victor E. Cameron Professor of Electrical & Computer Engineering, Rice University
Director/Founder of OpenStax
"Going off the Deep End with Deep Learning"

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We acknowledge the support of the Simons Foundation through the Math+X program.
THANK YOU

Thank you to the organizers and speakers who dedicated their time and energy to making the Math+Stats+X Conference on the Occasion of Dave Donoho's 60th Birthday a success.

Finally, thank you to Dave Donoho for his many years of valuable contributions to the field. We look forward to many more!
Early Morning
SPEAKERS

Robert Calderbank
Charles S. Sydnor Professor of Computer Science, Duke University
"Fifty Years of Learning from Data"

Andrea Montanari
Professor, Departments of Statistics and EE, Stanford University
"Spectral Algorithms for Tensor Estimation"

Jean-Luc Starck
PhD, Director of Research, Cosmostat Laboratory, Service d’Astrophysique, CEA Saclay
"Cosmostatistics: Tackling Big Data from the Sky"

Late Morning
SPEAKERS

Victoria Stodden
Associate Professor, University of Illinois at Urbana-Champaign
"25 Years of Reproducible Research"

Michael (Miki) Lustig
PhD, Departments of EE and CS, UC Berkeley
"Compressed Sensing MRI: Past, Present and Future"