



Climate Program Extremes Workshop
May 16-17, 2018
SCHEDULE

Wednesday, May 16th

SAMSI

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|-------------|---|
| 11:30-12:30 | Special Lecture: “ <i>Climate Extremes and Max-stable Processes</i> ”
Raphaël Huser , KAUST |
| 12:30-1:00 | Boxed Lunch |
| | Climate and Weather Extremes |
| 1:30-2:00 | “ <i>Historical Perspective on Hurricane Harvey Rainfall</i> ”
Ken Kunkel (NC Climate Center, Asheville) |
| 2:00-2:30 | “ <i>Extreme Values of Vertical Wind Speed in Doppler LIDAR ARM Measurements</i> ”
Charlotte Haley (Argonne) |
| 2:30-3:00 | “ <i>Employing a Multivariate Spatial Hierarchical Model to Characterize Extremes with Application to US Gulf Coast Precipitation</i> ”
Brook Russell (Clemson) |
| 3:00-3:30 | “ <i>The Dependence between Extreme Precipitation and Underlying Indicators of Climate Change</i> ”
Richard Smith (UNC) |
| 3:30-4:00 | Break |
| | Spatial Extremes |
| 4:00-4:30 | “ <i>Max-Infinitely Divisible Models for Spatial Extremes Using Random Effects</i> ”
Ben Shaby (Penn State) |
| 4:30-5:00 | “ <i>Assessing Models for Estimation and Methods for Uncertainty Quantification for Spatial Return Levels</i> ”
Bo Li (Illinois) |
| 5:00-5:30 | “ <i>Decompositions of Dependence for High-Dimensional Extremes: Applied to Spatial Precipitation Extremes</i> ”
Yujing Jiang (Colorado State) |
| 5:30-6:00 | “ <i>Spatial Modeling for Improving Estimates of Extreme Precipitation Statistics at Weather Stations</i> ”
Mark Risser (LBNL) |
| 6:15 | Return to Hotel |

Thursday May 17th

SAMSI

Networks and Extremes

8:30-9:00

"Networks and Extremes: a review and further studies"

Ansu Chatterjee (Minnesota)

9:00-9:30

"Network Analysis of Gulf Coast Extreme Precipitation"

Whitney Huang (SAMSI)

9:30-10:00

"Extreme Rainfall Events of Indian Monsoon: A Network-based Analysis"

Adway Mitra (ICTS; visiting SAMSI/UNC)

10:00-10:30

"Life Cycle of Extreme Events Revealed by Network"

Chen Chen (University of Chicago)

10:30-11:00

Break

New Models for Extremes

11:00-11:30

"Semiparametric Density Estimation for Heavy Tailed Data"

Surya Tokdar (Duke)

11:30-12:00

"A Semiparametric Bayesian Clustering Model for Spatial Extremes"

Brian Reich (NCSU)

12:00-12:30

"Semiparametric Models for Densities that Have Flexible Tail Behaviors"

Michael Stein (University of Chicago)

12:30-1:00

"Extreme Value Theory and the Reassessment in the Caribbean: lessons from hurricanes Irma and Maria"

David Torres, University of Puerto Rico

1:00

Adjourn / Box Lunch

1:30

Shuttle to RDU Airport