



MUMS Program
Sixth Bayesian, Fiducial, and Frequentist (BFF6)
Conference on Model Uncertainty
April 28-May 1, 2019
SCHEDULE

Sunday, April 28th

Penn Pavilion, Duke University

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| 8:30 | Registration |
| 8:50-9:00 | Intro, Welcome |
| 9:00-12:00 | Short Course on Bayesian Model Uncertainty
Anabel Forte , University of Valencia
<i>"Model Uncertainty: a review"</i>

(Break: 10:30 am - 10:45 am) |
| 12:00-2:00 | Lunch (on own) |
| 2:00-5:15 | Short Course on Data Fusion
Regina Liu , Rutgers University and Min-ge Xie , Rutgers University

(Break: 3:30 pm - 3:45 pm) |
| 5:15 | Shuttle to Hotel |

Monday, April 29th

Penn Pavilion, Duke University

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| 8:45-9:00 | Opening Remarks
David Banks , SAMSI and Ruobin Gong , Rutgers University |
| 9:00-10:00 | Keynote Lecture: Michael Jordan , University of California, Berkeley
<i>"Inference Meets Computation: Dynamical, Stochastic and Economic Perspectives"</i> |
| 10:00-10:15 | Break |
| 10:15-11:45 | Invited Session: BFF Interfaces

David Bickel , University of Ottawa
<i>"Blends of Bayesian and Frequentist Inference"</i> |

Ed George, University of Pennsylvania
“Multidimensional Monotonicity Discovery with MBART”

Vladimir Vovk, Royal Holloway, University of London
“Calibration of Probability Forecasts”

11:45–1:15 Lunch (on own)

1:15–2:15 Keynote Lecture: **Peter McCullagh**, University of Chicago
“Statistical Sparsity”

2:15– 2:30 Break

2:30 pm – 4:00 pm Invited Session: Uncertainty Quantification for Bayesian Nonparametrics

Veronika Rockova, University of Chicago
“Multiscale Analysis of BART”

Stéphanie van der Pas, Leiden University
“Uncertainty Quantification for Bayesian Survival Analysis”

Subhashis Ghosal, North Carolina State University
“Coverage of Credible Intervals for Monotone Regression”

4:00-4:30 Break

4:30-5:15 Panel Session
Senior Panelists: **TBD**
Junior Panelists: **TBD**

5:30-7:00 Poster Session and Reception

7:00–8:00 Public Lecture: **James Scott**, University of Texas, Austin, will be discussing his new book - *AIQ: How People and Machines Are Smarter Together*

8:20 Shuttle to Hotel

Tuesday, April 30th
Penn Pavilion, Duke University

9:00- 10:00 Keynote Lecture: **Phil Dawid**, Cambridge University
“Can a Fiducial Phoenix Rise from the Ashes?”

10:00-10:15 Break

10:15–11:45 Invited Session: SAMSI Developments on Data Fusion

Mengyang Gu, Johns Hopkins University
“Generalized Probabilistic Principal Component Analysis of Correlated Data”

Jan Hannig, University of North Carolina, Chapel Hill
“Are Reported Likelihood Ratios Well Calibrated?”

Dongchu Sun, University of Missouri
“Bayesian Analysis for Misaligned Regions and Applications in Cancer Mortality”

11:45–1:15 Lunch (on own)

1:15–2:15 Keynote Lecture: **Marina Vannucci**, Rice University
“Spatially Informed Variable Selection Priors and Applications to Large-scale Data”

2:15– 2:30 Break

2:30-4:00 Invited Session: SAMSI Developments in Model Uncertainty

Pierre Barbillon, SAMSI and UMR MIA-Paris, AgroParisTech, INRA
“Variable Selection in the Discrepancy Function Associated with a Simulator”

Gonzalo Garcia Donato, Universidad de Castilla-La Mancha
“Including Factors in Bayesian Variable Selection Problems”

Rui Paulo, ISEG, Technical University of Lisbon
“Model Selection in the Context of Computer Models”

4:00-4:30 Break

4:30-5:30 Student (and Recent Student) Invited Session:

John Snyder, Bayer Crop Science
“Objective Bayesian Analysis for a 2 x 2 Contingency Table”

Jingshen Wang, University of Michigan
“Inference on Treatment Effects after Model Selection”

Jonathan Williams, University of North Carolina
“The EAS Approach for Graphical Selection Consistency in Vector Autoregression Models”

5:45 Shuttle to Hotel

Wednesday, May 1st
Penn Pavilion, Duke University

9:00- 10:00 Keynote Lecture: **Chiara Sabatti**, Stanford University
“Selecting Important Features in Presence of Correlation—a story from Genetics”

10:00-10:15	Break
10:15-11:45	Invited Session: Philosophical Perspective on Model Uncertainty Kevin Kelly , Carnegie Mellon University <i>“A New, Truth-directed Explanation of Ockham's Razor in Model Inference”</i> Leah Henderson , University of Groningen <i>“Unifying Ockham’s Razor”</i> Alisa Bokulich , Boston University <i>“Models as Tools not Mirrors: Crossover Themes from the Philosophy of Science”</i>
11:45- 12:00	Final Discussion
12:00-12:10	Closing Remarks: Ruobin Gong , Rutgers University and Jan Hannig , University of North Carolina, Chapel Hill
12:30	Shuttle to Airport