

NBER-NSF Seminar on  
**Bayesian Inference  
in Econometrics and Statistics**  
May 3-4, 2013



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## Program

**Friday, May 3** - Knight Center, Room 220

1:30 p.m. – 3:00 p.m.      **SESSION 1 – Nonparametrics/Semiparametric**      **Room 220**  
Chair: Siddhartha Chib, Washington University

- [Hwan-sik Choi](#), *Purdue University*, “Expert Information and Nonparametric Bayesian Inference of Rare Events.”
- [Jiaying Gu](#), *University of Illinois*, “Unobserved Heterogeneity in Longitudinal Data: An Empirical Bayes Perspective.”
- [Rob McCulloch](#), *University of Chicago*, “Monotonically-constrained nonparametric high-dimensional function estimation using Bayesian additive regression trees.”
- [Liao Yuan](#), *University of Maryland*, “Semi-parametric Bayesian Partially Identified Models based on Support Function.”

3:00 - 3:15      **Refreshment Break**      2<sup>nd</sup> Floor Break Area

3:15 - 4:45      **SESSION 2 - Time Series**      **Room 220**  
Chair: Nan Lin, Washington University

- [Atsushi Inoue](#), *North Carolina State University*, “Inference on Impulse Response Functions in Structural VAR Models.”
- [Jaeho Kim](#), *University of Washington*, “An Efficient Bayesian Inference of Regime-Switching ARMA Models: Dynamics of Ex-Ante Real Interest Rate Under Regime Shifts.”
- [Jani Luoto](#), *University of Helsinki*, “A Noncausal Autoregressive Model with Time-Varying Parameters: An Application to U.S. Inflation.”
- [Giovanni Petris](#), *University of Arkansas*, “A Bayesian framework for functional time series analysis.”

4:45 – 5:00      **Refreshment Break**      2<sup>nd</sup> Floor Break Area

5:00 – 6:15      **SESSION 3 – Macroeconomics**      **Room 220**  
Chair: Justin Tobias, Purdue University

- [Eric Gaus](#), *Ursinus College*, “Learning and Loss Functions: Comparing Optimal and Operational Monetary Policy Rules.”
- [Ed Herbst](#), *Federal Reserve Board*, “Sequential Monte Carlo Sampling for DSGE Models.”
- [Dongho Song](#), *University of Pennsylvania*, “Identifying Long-Run Risks: A Bayesian Mixed-Frequency Approach.”

6:15 – 7:00      **Reception**      Courtyard

7:00 – 9:30 p.m.      **DINNER**      Anheuser-Busch Dining Hall

**Saturday, May 4** - Knight Center, Room 220

6:30 – 8:30 a.m.                      **BREAKFAST**    2<sup>nd</sup> Floor Break Area

8:30 – 10:15                              **SESSION 4 – Finance**    **Room 220**  
Chair: Carlos Carvalho, The University of Texas

- [Anatoliy Belaygorod](#), *RGA*, “Practical Specification of Affine Jump-Diffusion Stochastic Volatility Models.”
- [Brenda Betancourt](#), *University of California, Santa Cruz*, “Modelling and prediction of financial trading networks: A case study in the NYMEX natural gas futures market.”
- [John Maheu](#), *McMaster University*, “A Bayesian Nonparametric Analysis of the Relationship between Returns and Realized Variance.”
- [Ravindra Sastry](#), *SMU*, “Tales of Tails: Quantifying Extreme Downside Risk.”
- [Zhongxian Men](#), *University of Waterloo*, “Bayesian Inference of Asymmetric Stochastic Conditional Duration Models.”

10:15 – 10:30                              **Refreshment Break**    2<sup>nd</sup> Floor Break Area

10:30 – 12:00 p.m.                      **SESSION 5 – Regularization, Deviance**    **Room 220**  
Chair: Edward Greenberg, Washington University

- [Sounak Chakraborty](#), *University of Missouri*, “Bayesian Regularization via Graph Laplacian.”
- [Shawn Ni](#), *University of Missouri*, “Bayesian Analysis of Multivariate Smoothing Splines.”
- [Zhenyu Wang](#), *University of Missouri*, “Bayesian Elastic-Net and Fused Lasso for Semiparametric Structural Equation Models.”
- [Tao Zeng](#), *Singapore Management University*, “Robust Deviance Information Criterion for Latent Variable Models.”

12:00 – 1:15 p.m.                              **LUNCH**    **Room 340**

1:15 – 2:45                                      **SESSION 6 – Topics**    **Room 220**

Chair: Sanjib Basu, Northern Illinois University

- [Martin Burda](#), *University of Toronto*, “Bayesian Estimation of Games under Rationalizability.”
- [Ivan Jeliazkov](#), *University of California, Irvine*, “Nonparametric Vector Autoregressions: Specification, Estimation, and Inference.”
- [William McCausland](#), *University of Montreal*, “Bayesian Inference and Model Comparison for Random Choice Structures.”
- [Andriy Norets](#), *Princeton University*, “Credibility of confidence sets in nonstandard econometric problems.”

2:45 – 3:00                                      **Refreshment Break**    2<sup>nd</sup> Floor Break Area

3:00 - 4:15                                      **SESSION 7 – Applications**    **Room 220**  
Chair: Richard Hahn, University of Chicago

- [David S. Matteson](#), *Cornell University*, “A Spatio-Temporal Mixture Model for Point Processes with Application to Ambulance Demand.”
- [Irina Panovska](#), *Washington University in St. Louis*, “What Explains the Recent Jobless Recoveries.”
- [Hongxia Yang](#), *IBM*, “Dynamic Latent Class Model Averaging for Online Prediction.”