

*First SIS-Bayes workshop
Roma, 7-8 February 2017*

*Aula 1A, Dipartimento di Scienze Odontostomatologiche e Maxillo Facciali,
Sapienza Università di Roma, Via Caserta 6.*

Final program

Tuesday, February 7

8:30 – 9:00 **Registration**

9:00 – 11:00 Tutorial on **Bayesian Nonparametrics** (A. Guglielmi, Politecnico di Milano)

11:00 – 11.30 **Coffee Break**

11:30-13:00 **SESSION 1 Bayesian Causal Inference**
(organizers: Alessandra Mattei, Fabio Corradi).

Speakers

Monica Musio (Università di Cagliari)

Probability of Causation and Bayesian Inference

Fabrizia Mealli (Università di Firenze)

Causal Inference: A Bayesian Perspective

Corwin Ziegler (Harvard T.H. Chan School of Public Health)

Bayesian Methods for Principal Stratification and Causal Mediation Analysis with Multiple Intermediates: Evaluating Power Plant Regulatory Interventions

13:00 – 14:30 LUNCH

14:30 – 16:00 **SESSION 2** Computational Statistics and Big Data Challenge
(organizer: Antonietta Mira)

Nial Friel (University College, Dublin, Ireland)

Approximate Bayesian inference for large datasets

Antonio Canale (Università di Torino)
Scalable multiscale density estimation

Roberto Casarin (Università di Venezia)
Bayesian analysis of networks

16:00 – 17.30 **Poster Presentation** (5 minutes each)

<i>Crescenza Calculli</i>	Università di Foggia	Bayesian modeling for the characterization of fish fauna assemblages in a newly recorded cold-water coral site in the Mediterranean sea.
<i>Rina Camporese</i>	Istat	The Witches of Bayes
<i>Alessia Caponera</i>	Sapienza Università di Roma	Adaptive Smoothing Spline with Application to Seismic Data
<i>Federico Castelletti</i>	Università di Milano Bicocca	Objective Bayesian graphical model selection with observational and interventional data
<i>Annalisa Cerquetti</i>		Bayesian nonparametric testing of Hubbell's neutral hypothesis: expected heterozygosity decomposition under mainland-island community structure
<i>Silvia D'Angelo</i>	Sapienza Università di Roma	Latent Space Model for Multidimensional Networks
<i>Davide Di Cecco</i>	Istat	A Bayesian approach to the estimate of a population size based on multiple incomplete lists with false captures
<i>Leonardo Egidi</i>	Università di Padova	A Hierarchical Bayesian Model for Football Scores using the Bookmakers Odds
<i>Paolo Giraldi</i>	Venetian Mesothelioma Registry, Occupational Health Unit, Local Health	Bayesian spatio-temporal analysis of mesothelioma incidence in the Veneto

	Authority of Padua, Padua, Italy	Region using R-INLA
Gianluca Mastrantonio	Politecnico di Torino	Bayesian Model-Based Space-Time Joint Interpolation of Temperature and Rainfall Fields for Ecoregion Climatic Characterization in Italy
Rosa Lipsi	Istat	Regional Population Estimation with Italian Administrative Data: preliminary results of the Bryant and Graham approach
Cristina Mollica	Sapienza Università di Roma	PLMIX: An R package for modeling and clustering partially ranked data
Federica Nicolino	Università di Pavia	Multivariate Dependence Analysis via Tree Copula Models: an Application to Energy Market
Antonio Parisi	Università di Roma Tor Vergata	Objective Bayesian analysis for the multivariate skew-t model
Tommaso Rigon	Università Bocconi	Bayesian semiparametric modelling of contraceptive behavior in India via sequential logistic regressions
Manuel Rizzo	Sapienza Università di Roma	Evolutionary Computation and multiple chains MCMC sampling: a review
Alberto Sorrentino	Università di Genova	Monte Carlo methods for Bayesian inverse problems
Dario Briscolini	Sapienza Università di Roma	New methods for small area estimation with linked data
A. Sottostanti	Università di Padova	Searching for Gamma Ray Sources in the Extra-Galactic Space: A Statistical Analysis of the Fermi LAT Data

17:30 – 20.30 **Poster/Aperitif**

Wednesday, February 8

8:30 – 10:30 Tutorial on **An introduction to Bayesian computing with INLA** (M. Cameletti, Università di Bergamo)

10:30 – 11:00 **Coffee Break**

11:00 – 12:30 **SESSION 3 Bayesian Nonparametrics** (organizers: Sonia Petrone – Andrea Ongaro)

Bernardo Nipoti (Trinity College, Dublin, Ireland)

On the Pitman-Yor process with spike and slab prior specification

Daniele Durante (Università di Padova)

Bayesian Nonparametric Modeling of Dynamic Networks

Isadora Antoniano Villalobos (Università Bocconi)

Bayesian Inference for the Extremal Dependence

12:30-14:00 **LUNCH**

14:00 – 15:30 **SESSION 4**

Likelihood Free Methods (organizers: B. Liseo and L. Ventura)

Federica Giummolè (Università di Udine)

Reference priors based on scoring rules.

Erlis Ruli (Università di Padova)

Approximate Bayesian inference from unbiased estimating functions.

Clara Grazian (Università di Roma Sapienza)

Modelling Ranking Data with Wallenius Distribution.

15:30 – 17.00 **SESSION 5**

Model Selection and Testing (organizer Guido Consonni)

Luca La Rocca (Università di Modena e Reggio Emilia)

Objective Bayesian model comparison: A subjective view.

David Rossell (Universitat Pompeu Fabra, Barcelona)

Extending the basic paradigm: likelihood and priors.

Francesco Stingo (Università di Firenze)

Bayesian model selection for graphical models: review and recent developments.

17.00: **Closure**