

BNP Conference - Program

Monday, June 23rd

8:30 AM - 8:50 AM Registration - Northwest Campus Auditorium

8:50 AM - 9:00 AM Opening Ceremony - Northwest Campus Auditorium

9:00 AM - 10:00 AM Plenary I - Northwest Campus Auditorium

Li Ma

Generative models, two-sample problem, and additive tree ensembles

Chair: Antonio Lijoi

10:00 AM - 10:30 AM Coffee Break

10:30 AM - 12:00 PM IS: Foundational Aspects of BNP - Northwest Campus Auditorium (this auditorium always first, then venice and then hermosa room)

Antonio Lijoi

A Bayesian nonparametric approach to estimation and prediction with competing risks.

Steve McEachern

Bayesian nonparametrics – from theoretical foundations to modelling

Marta Catalano

Measuring Partial Exchangeability With Reproducing Kernel Hilbert Spaces

Chair: David Dahl

10:30 AM - 12:00 PM IS: Scalable methods for BNP - CC Venice

Tamara Broderick

Double trouble: Predicting new variant counts across two heterogeneous populations

Sanvesh Srivastava

Federated Causal Inference with Gaussian Process Priors

Cheng Li

Radial Neighbors For Provably Accurate Scalable Approximations Of Gaussian Processes

Chair: Donatello Telesca

10:30 AM - 12:00 PM IS: BNP for networks - CC Hermosa

Bernardo Nipoti

Bayesian nonparametric modeling of heterogeneous populations of networks

Yang Ni

Covariate-Assisted Bayesian Graph Learning for Heterogeneous Data

Francesco Gaffi

Exchangeable random permutations for graph matching

Chair: Maria Kalli

12:00 PM - 2:00 PM Lunch Break

2:00 PM - 3:30 PM IS: Asymptotics and BNP Models - Northwest Campus Auditorium

XuanLong Nguyen

Learning topic hierarchies by tree-directed latent variable models

Jaeyong Lee

Conditional Dirichlet Processes and Functional Condition Models

Anirban Bhattacharya

Consistent DAG Selection For Bayesian Causal Discovery Under Non-gaussian Errors

Chair: Ismael Castillo

2:00 PM - 3:30 PM IS: Clustering and random partition - I - CC Venice

Richard Warr

Clustering Craters on the Moon with Dysfunctional Families

Clara Grazian

Consistency Results On Estimating The Number Of Clusters For The Pitman-yor Process

David Dahl

Exchangeable Partition Distribution With Direct Prior Specification And An Entropy Parameter

Chair: Steve MacEachern

2:00 PM - 3:30 PM IS: Controlling flexible BNP models - CC Hermosa

Julia Palacios

Novel coalescent point process approaches for modeling and for Bayesian inference of disease and molecular dynamics.

Alan Riva-Palacio

Flexible BNP multiple-sample modeling with asymptotic guarantees

Maria Kalli

Bayesian Nonparametric Models With Bart Components

Chair: Tamara Broderick

3:30 PM - 4:00 PM Coffee Break

4:00 PM - 5:30 PM Contributed Session 3 - Northwest Campus Auditorium

Alice Giampino

Local Level Dynamic Random Partition Models For Changepoint Detection

Alessandro Colombi

Predicting distinct and shared species in multiple areas

Johan Van Der Molen Moris

Efficient Computation Of The Posterior Similarity Matrix For Bayesian Nonparametric Clustering

Francesca Panero

Fast additive Gaussian Processes to model food security

Chair: Anirban Bhattacharya

4:00 PM - 5:30 PM Contributed Session 2 - CC Venice

Michele Peruzzi

Inside-out Cross-covariance For Spatial Multivariate Data

Pulong Ma

Residual Tree Gaussian Processes

Yichen Zhu

Vecchia Gaussian Processes: Probabilistic Properties, Minimax Rates And Methodological Developments

Swapnil Mishra

Deep Generative Spatial Priors: Efficient Inference With Aggvae

Chair: Long Nguyen

4:00 PM - 5:30 PM Contributed Session 1 - CC Hermosa

Jared Fisher

A Bayesian Classification Trees Approach To Treatment Effect Variation With Noncompliance.

Dafne Zorzetto

Bayesian Nonparametrics For Principal Stratification With Continuous Post-treatment Variables

Akira Horiguchi

Multidimensional Scalable Generative Wavelet Tree Ensembles

Linxi Liu

A Generalized Bayesian Tree Ensemble For Nonparametric Density Estimation

Chair: Bernardo Nipoti

5:30 PM - 7:30 PM Poster Session I - NorthWest Campus Auditorium

Michela Frigeri

A Bayesian hierarchical model for air pollution source apportionment

Bernardo Flores

Predictive Coresets

Shitao Fan

Robust and Scalable Variational Bayes

Nicola Barileto

A new look at strong posterior consistency through the lenses of identifiability

Entejar Alam

DPGLM: A Semiparametric Bayesian GLM with Inhomogeneous Normalized Random Measures

Soumyabrata Bose

Nonparametric Within-Between Model: Extending BART for Multilevel Modeling

Christian Bernal Zelaya

Forecasting healthcare utilization using wastewater surveillance data.

Youngsoo Baek

Frequentist Properties of Bayes Posteriors in Nonlinear Inverse Problems

Jairo Alberto Fuquene Patino

A Semiparametric Bayesian Extreme Value Model Using a Dirichlet Process Mixture of Gamma Densities

Luca Danese

Model-based clustering of time-dependent observations with common structural changes

Felipe Bedoya

Large Bayesian prior: an adaptative and optimal method

Snigdha Das

Scalably Efficient Inference in Complex Surveys through Targeted Resampling of Weights

Soham Ghosh (University of Wisconsin)

High-Dimensional Mixed-Outcome Regression with Sparse Structure Estimation via Multivariate Spike-and-Slab LASSO

Arhit Chakrabarti

Global-Local Dirichlet Processes for Clustering Grouped Data in the Presence of Group-Specific Idiosyncratic Variables

Jiachen Cai

Study tumor-immune microenvironment by connecting single-cell RNA-seq data with spatial transcriptomics data using hierarchical Dirichlet processes

Jianghu (James) Dong

Dynamic Joint Model

Elvis Han Cui

A Semiparametric Bayesian Method for Instrumental Variable Analysis with Partly Interval-Censored Time-to-Event Outcome

Martin Burda

Bayesian Adaptive Sparse Copula

Laura Ferrini

BNP Mixtures of graphs for clustering categorical data

Dat Do

Robust and Interpretable Bayesian Mixture Modeling by using Dendrogram of mixing measures

Davis Berlind

Bayesian change-point detection and uncertainty quantification via variational inference

Francesco Gili

Semiparametric Bernstein-von Mises Phenomenon via Projected Posterior in Wicksell's problem

Isaac Fwemba

Comparing Bayesian nonparametric latent-class modeling (BLCM) and Bayesian Anchor multiplier as tools for HIV epidemic control through estimation of Key population size in Zambia.

Abhijit Brahme

A Nonparametric Bayesian Model for Concave Functions with Applications to Modeling Aging in Sports

Srijato Bhattacharyya

A Random Spanning Tree based Bayesian Partitioning model for Spatial Clustering of Multivariate Spatial data

Fernando Corrêa

Kullback-Leibler Consistency of p -dimensional Pólya Tree Posteriors and Differential Entropy Estimation

Fuheng Cui

Martingale Posterior Distributions for Log-concave Density Functions.

Subhasish Das

Bradycardia Prediction in Preterm Infants Using Nonparametric Kernel Density Estimation

Soham Ghosh (Texas A&M)

Optimal Posterior Contraction for Principal Subspace in High Dimension

Jongwoo Choi

Robust Bayesian Predictive Model Selection Using Bregman Divergence

Simone Colombara

Bayesian Non-Parametric Spatio-Temporal Model for Analyzing Crop Yield under Time-Varying Climatic Stress

Sarwan Ali

Bayesian Nonparametric Models for Integrative Genomic Data Analysis in Healthcare Applications

Marco Dalla Pria

Filtering 2-parameter Poisson-Dirichlet diffusions

Mael Duverger

Bernstein-von Mises property for functionals of multivariate linear Hawkes process

Dila Bhandari

Forecasting of the Nepalese Tourism Industry Using a Modeling Approach

Tuesday, June 24th

8:30 AM - 9:15 AM Keynote 1 - NorthWest Campus Auditorium

Ismael Castillo

Heavy-tailed priors for nonparametric adaptation

Chair: Botond Szabo

8:30 AM - 9:15 AM Keynote 2 - CC Venice

Federico Camerlenghi

Discrete random structures for feature sampling models: theory and applications

Chair: Juhee Lee

9:15 AM - 10:45 AM IS: BNP for environmental and health applications - NorthWest Campus Auditorium

Antonio Canale

Adaptive Partition Factor Analysis

Eleni Matechou

Applications of Bayesian nonparametric models to ecological data

David Dunson

Bayesian Deep Latent Class Regression

Chair: Raffaele Argiento

9:15 AM - 10:45 AM IS: BNP in Biostatistics I - CC Venice

Didong Li

Parameter Inference for Gaussian Processes

Fan Bu

Hierarchical Bayesian Framework for Evidence Synthesis across Federated Data Networks

Francesco Denti

Bnp4bnp: Bayesian Nonparametric Models For Biomarkers And Neuronal Patterns

Chair: Peter Mueller

9:15 AM - 10:45 AM IS: BNP in spatial Statistics - CC Hermosa

Rajarshi Guhaniyogi

Amortized Inference For Large Structured Data

Hernando Ombao

Neural Granger Causality: A Novel View

Huiyan Sang

Bayesian spatial local variable selection models

Chair: Sonia Petrone

10:45 AM - 11:15 AM Coffee Break

11:15 AM - 12:45 PM Contributed Session 6 - NorthWest Campus Auditorium

Yunshan Duan

Spatially aligned random partition models on spatially resolved transcriptomics data

Lorenzo Ghilotti

Bayesian nonparametric processes for clustering count data with potentially unobserved traits

Dan Kowal

Monte Carlo Inference For Semiparametric Bayesian Regression

Dennis Nieman

Adaptive Variational Inference For Gaussian Processes

Chair: Francesco Denti

11:15 AM - 12:45 PM Contributed Session 5 - CC Venice

Sean O'Hagan

Tree Bandits For Generative Bayes

Martina Amongero

A Gibbs Sampler For Community Detection In Assortative Stochastic Block Model With Unknown Number Of Communities

Alexander Dombowsky

Hierarchical Directed Dirichlet Networks For Discrete Graphical Modeling

Louise Alamichel

Enriched Zero-inflated Stochastic Block Models

Chair: Pierpaolo De Blasi

11:15 AM - 12:45 PM Contributed Session 4 - CC Hermosa

Sandra Fortini

A Sequential Approach To The Poisson Compound Decision Problem

Junyi Zhang

Dependent Beta Process In Bayesian Factor Analysis

Matthew Koslovsky

Dynamic Functional Variable Selection for Multimodal mHealth Data

Giovanni Rebaudo

Probabilistic Discovery Of New Species And Homogeneous Subpopulations

Chair: Matteo Ruggiero

12:45 PM - 2:45 PM Lunch Break

2:45 PM - 4:15 PM IS: Predictive Inference in BNP Models - Northwest Campus Auditorium

Edwin Fong

Martingale Posteriors For Structured Data

Lorenzo Cappello

New (and Old) Predictive Schemes With A.c.i.d. Sequences

Sonia Petrone

Bayesian predictive efficiency

Chair: Sandra Fortini

2:45 PM - 4:15 PM IS: BNP in Time Series - CC Venice

Athanasios Kottas

Nonparametric Markov Renewal Processes For Earthquake Modeling

Fernando Quintana

Spatio-Temporal Models via Sequences of Random Spanning Trees

Matteo Ruggiero

Quasi-conjugacy in two-parameter Poisson–Dirichlet hidden Markov models

Chair: Federic Camerlenghi

2:45 PM - 4:15 PM IS: BNP in Deep Learning and Machine Learning - CC Hermosa

Kyeongwon Lee

Bayesian Sparse Neural Networks In General Besov Spaces With Intrinsic Dimensions

Julyan Arbel

Bayesian deep learning, overview and challenges

Juho Lee

Bayesian Nonparametric Models In The Era Of Foundation Models

Chair: David Frazier

4:15 PM - 4:45 PM Coffee Break

4:45 PM - 6:45 PM Poster Session 2 - NorthWest Campus Auditorium

Falco J. Bargagli Stoffi

Confounder-dependent Bayesian mixture model: Characterizing heterogeneity of causal effects in air pollution epidemiology

Emma Landry

Bayesian regression in the Wasserstein space for density-valued data

Saidat Fehintola Olaniran

Bayesian Tapered Narrowband Least Squares for Fractional Cointegration Testing in Panel Data

Jiguang Li

Bayesian Computerized Adaptive Testing

Ji Won Park

Targeted neural posterior estimation

Mengbing Li

Bridging Exposure and Outcome Clustering: A Bayesian Multilayered Simplex Factor Regression Model for Complex Epidemiological Data

Nicola Gorini

Linear Methods for Non-linear Inverse Problems

Luigi Maria Malgieri

Consistency for Fleming-Viot Dependent Dirichlet Process

Jiaming Liu

Trustworthy variational Bayes with guarantees

Andrew Le

Analysis of Intensities for Replicated Point Patterns

Shuhei Mano

A measure-on-graph-valued diffusion: a particle system with collisions and its application

Jennifer Kampe

Nested exemplar latent space models for dimension reduction in dynamic networks

Valentin Kilian

Modelling extremely sparse networks

Jeunghun Oh

Asymptotic Properties of Lévy Adaptive B-spline Regression

Francesco Mascari

Measuring Partial Exchangeability with Reproducing Kernel Hilbert Spaces

Oyebayo Ridwan Olaniran

Mixed-Effects Bayesian Additive Regression Trees for High-Dimensional Longitudinal Genomic Data

Garritt Page

Uncertainty Quantification in Bayesian Clustering

Riccardo Lazzarini

Statistical Guarantees for Robust Gaussian Process Regression

Sepideh Mosaferi

Unbiased Predictor for Skewed Response Variable with Measurement Error in Covariate

Kai Lehman

Bayesian Nonparametric Inference for Misspecified Cosmological Models

Carson McKee

Mutually Dependent Bernoulli Processes for Multivariate Change-Point Detection

Torey Hilbert

Symmetrization of Martingale Posterior Distributions

Joshua Loyal

Generalized Bayesian Inference for Dynamic Random Dot Product Graphs

Andre Nunes

Joint modeling of longitudinal binary responses: A nonparametric Bayesian approach using acute and chronic malnutrition data

Miguel Pebes-Trujillo

Bayesian Methods for Crop Trait Optimization in Precision Agriculture Research

Yujin Jeong

Bayesian Nonparametric Modeling for Multivariate Conditional Copula Regression with Varying Coefficients

George Kanchaveli

A two-sample testing for exchangeable sequences via optimal transport

Hwangwan Gwon

Improving In-Situ Soil Moisture Monitoring with the CUSP-MRA Prior: A Local Stationarity Approach

Giosue Migliorini

Neural Guidance for Variational Interacting Particle Systems with Discrete Latent States

Rayleigh Lei

Calibrating hierarchical Bayesian subdomain inference with a binary outcome

Niladri Kal

Adaptive Divide and Conquer with Two Rounds of Communication

Seongmin Kim

Bayesian analysis of the eigenstructure of the high-dimensional covariance with shrinkage inverse Wishart prior

Tâm Le Minh

Nonparametric models for bipartite edge-exchangeable networks with node dependence: applications to ecological interactions

Hyota Kim

Modeling Cross-Site Dependency in Microbiome Compositional Data: A Latent Factor Approach for Improved Analysis and Prediction

Daniele Micheletti

Towards Deep Generative Models for Exchangeable Graphs: Exploring Connections with Bayesian Nonparametrics

Wednesday, June 25th

8:30 AM - 9:30 AM Plenary 2 - NorthWest Campus Auditorium

Maria De Iorio

Latent Structure Learning in Multi-View Data

Chair: Alessandra Guglielmi

9:30 AM - 10:15 AM Keynote 3 - NorthWest Campus Auditorium

Antonio Linero

Challenges and Opportunities for Bayesian Nonparametrics in Causal Inference

Chair: Botond Szabo

9:30 AM - 10:15 AM Keynote 4 - CC Venice

Sara Wade

Understanding Uncertainty in Bayesian Cluster Analysis

Chair: Garritt Page

10:15 AM - 10:45 AM Coffee Break

10:45 AM - 12:15 PM IS: BNP mixture models - NorthWest Campus Auditorium

Andrea Cremaschi

Dependent Dirichlet-multinomial Processes With Random Number Of Components

Raffaele Argiento

Reducing Dimensionality in Covariate-Informed Random Partition Models

Tommaso Rigon

Bayesian inference for biodiversity estimation

Chair: Antonio Canale

10:45 AM - 12:15 PM IS: Theoretical advances in BNP - I- CC Venice

Ramses Mena

Fast computation of means of Gibbs-type priors

Peter Orbanz

Efficiently vectorized MCMC on modern accelerators

Paul Kirk

Federated Variational Inference for Bayesian Mixture Models

Chair: Igor Prunster

10:45 AM - 12:15 PM IS: Gaussian processes: theory and application- CC Hermosa

Meng Li

Just plug in: optimal Gaussian process modeling for rate of change

Sudipto Banerjee

Multivariate Gaussian Processes with Graphs

Mark van der Wilk

Lessons from BNP on how should we grow/shrink neural network layers

Chair: Sara Wade

12:15 PM - 2:00 PM Lunch Break

2:00 PM - 3:30 PM Contributed Session 8 - NorthWest Campus Auditorium

Davide Agnoletto

Nonparametric Predictive Inference For Discrete Data Via Metropolis-adjusted Dirichlet Sequences

Alessandro Zito

Localized Mutational Signature Analysis Via Inhomogenous Poisson Process Factorizations

Yisheng Li

Bayesian Nonparametric Model For Heterogeneous Treatment Effects With Zero-inflated Data

Michael Jauch

More On Bayesian Nonparametric Inference For Likelihood Ratio Ordered Distributions

Chair: Vinayak Rao

2:00 PM - 3:30 PM Contributed Session 7 - CC Venice

Sunrit Chakraborty

Learning Topic Hierarchies By Tree-directed Latent Variable Models

Alessandro Carminati

Hierarchical Shot Noise Cox Process Mixture Models

Elisabeth Bersson

Covariance Meta Regression

Ray Bai

Distributed Semiparametric Bayesian Inference For Massive Survival Data

Chair: Sara Wade

2:00 PM - 3:30 PM Contributed Session 9 - CC Hermosa

Laura D'Angelo

Dependent Dirichlet Processes Via Thinning

Suprateek Kundu

Flexible Bayesian Nonparametric Product Mixtures For Multi-scale Functional Clustering

Alex Jiang

Posterior Consistency Under Model Misspecification - A Two-level Mixture Model Approach

Chair: Felipe Barrientos

3:30 PM - 4:00 PM Coffee Break

4:00 PM - 5:30 PM Contributed Session 10 - CC Hermosa

Claudio Del Sole

A Principled Approach To Covariate-dependent Random Partition Models

Wenyu Gao

A Weighted Dirichlet Process Mixture Model For Spatial Clustering Of Child Trafficking Vulnerabilities In Sierra Leone

Federica Stolf

Infinite Joint Species Distribution Models

Matteo Gianella

Slice The Tables In The Hierarchical Dirichlet Process

Chair: Marta Catalano

4:00 PM - 5:30 PM IS: Uncertainty quantification in BNP - NorthWest Campus Auditorium

Babak Shahbaba

Scaling Up Bayesian Neural Networks with Neural Networks

Catherine Forbes

Moment-relevant Sensitivities For Bayesian Moment Condition Models

David Frazier

The Statistical Accuracy Of Neural Posterior And Likelihood Estimation

Chair: Aad van der Vaart

4:00 PM - 5:30 PM IS: Bayesian nonparametric inference in complex models - CC Venice

Sergios Agapiou

Heavy-tailed Bayesian Nonparametric Adaptation, Direct And Inverse Problems

Matteo Giordano

Statistical Algorithms For Low-frequency Diffusion Data: A Pde Approach

Randolf Altmeyer

Bayesian Nonparametrics For Semi-linear Spdes

Chair: Ramses Mena

5:30 PM - 7:30 PM Poster Session 3 - NorthWest Campus Auditorium

S. Yaser Samadi

Modeling Dynamic Interactions in Time Series Mixed Data: Bayesian CopulaFactor Autoregressive Approach

Mahlon Scott

Spatial Storm Surge Risk Modeling

Hanyu Wang

Divide-and-Conquer Dirichlet Process mixture model for Uncertainty Evaluation in Large-Scale Clustering: Data Allocation and Cluster Numbers

Ziyi Song

Clustering computer mouse tracking data with informed hierarchical shrinkage partition priors

Ryan Yee

Scalable piecewise smoothing with BART

Vince Velkey

Finite Exchangeability, de Finetti's Theorem and Exponential Families

Giovanni Romanò

Dependent stochastic block models for sequences of bipartite networks

Percy Zhai

Minimax Bayesian Predictive Inference with the Horseshoe Prior

Federica Zoe Ricci

Approximately sparse mixed-membership stochastic blockmodels for the analysis of large networks

Edric Tam

On the Statistical Capacity of Deep Generative Models

Zhaoxi Zhang

Measuring dependence of partition on covariates in cluster analysis

Gözde Sert

Bayesian Semi-supervised Inference via a Debiased Modeling Approach

Xinyu Zhang

Bayesian Restricted Likelihood, Generalized Bayes and Model Misspecification

SYED EHSAN AR RAFI

Application of Quantile Transform Method while Simulating Random Variates from Densities with Non-Closed Form of Cumulative Distribution Function

Shuangjie Zhang

Generalized Bayes Compositional Directed Acyclic Graph

Bohan Wu

Adaptive Nonparametric Perturbations of Parametric Bayesian Models

Anna Petranzan

The Gnedin model for biodiversity estimation

Shijie Yuan

Monitoring Adverse Events Through Bayesian Nonparametric Clustering Across Studies

Artiom Rumiancev

Adaptively slice sampling mixture models

Adam Stone

AddiVortes: (Bayesian) Additive Voronoi Tessellations.

Ziyu Wang

Spatial heterogeneity in the effects of covariates on income distributions using Bayesian nonparametric methods

Mostafa Shams Esfand Abadi

Bayesian nonparametric regression for insurance claims data

Yuan Zhong

Deep kernel learning based Gaussian processes for Bayesian image regression analysis

Sihyeon Pyeon

Bayesian Adaptive Triangulation

Yilei Zhang

A Bayesian Method for Learning Mixture Models of Non-parametric Components

Navin Souda

Nonparametric Bayesian Biclustering of Count Data Using the Zero-Inflated Poisson SBM

Giovanni Toto

Bayesian Multivariate Density Regression with Coordinate-Wise Predictor Selection

Spencer Wadsworth

Bayesian Stacking via Proper Scoring Rule Optimization using a Gibbs Posterior

MAN CHUN YEUNG

Bayesian nonparametric inference for unordered bivariate time to event data

Jungang Zou

Nonparametric Bayesian Additive Regression Trees for Prediction and Missing Data Imputation in Longitudinal Studies

Ganchao Wei

Stream-level flow matching with Gaussian processes

Yuliang Xu

A Hierarchical Tree Model for Multi-sample Density Estimation and Clustering

Wei Zhang

A Bayesian Nonparametric Approach to Multinomial Logistic Tensor Regression with Numerous Response Categories

Daniel Wurzler Barreto

A Relaxation of Conditionally Identically Distributed Sequences for Predictive Bayesian Inference

Jessalyn Sebastian

Gaussian Process Priors with Markov Properties for Effective Reproduction Number Estimation

Thursday, June 26th

8:30 AM - 9:15 AM Keynote 5: Stefano Favaro - NorthWest Campus Auditorium

Stefano Favaro

A smoothed-Bayesian approach to frequency recovery from sketched data

9:15 AM - 10:45 AM IS: BNP in Biostatistics II - NorthWest Campus Auditorium

Noirit Kiran Chandra

Bayesian Semiparametric Functional Mixed Effects Drift-diffusion Models For Cognitive Control Leveraging Stop-signal Tasks

Yuqi Gu

Deep Discrete Encoders: Identifiable Deep Generative Models For Rich Data With Discrete Latent Layers

Amy Herring

From the Back Yard to the Parlor: Collaboration-Inspired Methodology

Chair: Jeff Miller

9:15 AM - 10:45 AM IS: BNP for structured data - CC Venice

Igor Pruenster

Multivariate species sampling models

Ilsang Ohn

Early stopped aggregation for nonparametric variational Bayes adaptation

Riccardo Corradin

Autocompound Random Measures

Chair: Subhashis Ghoshal

9:15 AM - 10:45 AM IS: Theoretical advances in BNP - II - CC Hermosa

Maria F. Gil Leyva Villa

On A New Stick-breaking Characterization Of Pitman-yor Processes

Pierpaolo De Blasi

Speeding Up The Ordered Allocation Sampler

Filippo Ascolani

Posterior Results On The Stick-breaking Representation For Dirichlet Process Mixtures Of Gaussians

Chair: Peter Orbanz

10:45 AM - 11:15 AM Coffee Break

11:15 AM - 12:45 PM Contributed Session 11 - NorthWest Campus Auditorium

George Karabatsos

Bayesian Nonparametric Sensitivity Analysis Of Multiple Comparisons Under Dependence

Yu-Chien Ning

Empirical Bayes Large-scale Multiple Testing For High-dimensional Binary Outcome Data

Joseph Feldman

Data Integration For Multiple Imputation Of Nonignorable Missing Data: A Copula-based Approach

Kai Nguyen

Summarizing Bayesian Nonparametric Mixture Posterior - Sliced Optimal Transport Metrics For Gaussian Mixtures

Chair: Surya Tokdar

11:15 AM - 12:45 PM Contributed Session 12 - CC Venice

Benedetta Bruni

A Partial Likelihood Approach To Tree-based Density modeling And Its Application In Bayesian Inference

Changwoo Lee

Logistic-beta Processes For Dependent Random Probabilities With Beta Marginals

Zihang Lu

A Bayesian Non-parametric Mixture Sparse Factor Model For Clustering High-dimensional Longitudinal Data

Miheer Dewaskar

Bayesian Level Set Clustering

Chair: Sameer Deshpande

11:15 AM - 12:45 PM Contributed Session 13 - CC Hermosa

Giuseppe Mignemi

Bayesian Nonparametric Estimation Of Species Richness: Flexible And Analytically Tractable Models

Claudia Contardi

Gaussian Credible Intervals In Bayesian Nonparametric Estimation Of The Unseen

Isaac Goldstein

Semiparametric Inference Of Effective Reproduction Number Dynamics From Pathogen Genealogies

Widemberg Nobre

A Bayesian Multilevel Approach For Causal Inference Under Mis-specification

Chair: Debdeep Pati

12:45 PM - 2:45 PM Lunch Break

2:45 PM - 4:15 PM IS: BNP and trees - NorthWest Campus Auditorium

Michael Daniels

A New Sparsity Inducing Prior For Modelling Longitudinal Data In Bart With Application To G-computation And Causal Inference

Veronika Rockova

AI-Powered Bayesian Inference

Sameer Deshpande

Building Faster And More Expressive Bart Models

Chair: Antonio Linero

2:45 PM - 4:15 PM IS: Memorial session in honor of prof. Ramamoorthi (asymptotics) - CC Venice

Surya Tokdar

Density estimation and extreme value analysis

Aad van der Vaart

Bayesian nonparametrics: from consistency to uncertainty quantification, a review

Subhashis Ghoshal

Bayesian Learning Of Relational Graph In Semiparametric High-dimensional Time Series

Chair: Sudipto Banerjee

2:45 PM - 4:15 PM IS: Robustness in BNP models - CC Hermosa

Jeff Miller

Bayesian model criticism using uniform parametrization checks

Felipe Barrientos

Bayesian Differential Privacy: Inference With Unknown Sample Size

Michael Minyi Zhang

A Deep Bayesian Nonparametric Framework For Robust Mutual Information Estimation

Chair: David Dunson

4:15 PM - 4:45 PM Coffee Break

4:30 PM - 5:30 PM BNP Section meeting - NorthWest Campus Auditorium

5:30 PM - 6:30 PM Junior ISBA reception - Barney's Beanery Westwood

7:00 PM - 9:00 PM Conference reception - Barney's Beanery Westwood

Friday, June 27th

9:00 AM - 10:00 AM Plenary 3 - NorthWest Campus Auditorium

Peter Mueller

Common atoms mixture models in some biostatistical inference problems

Chair: Michele Guindani

10:00 AM - 10:30 AM Coffee Break

10:30 AM - 12:00 PM IS: Advances in Computation for BNP - NorthWest Campus Auditorium

Vinayak Rao

MCMC for Bayesian nonparametric mixture modeling under differential privacy

Debdeep Pati

Scientifically guided robust inference

Shounak Chattopadhyay

Efficient Sampling In Bayesian Nonparametric Mixture Models With Soft Multinomial Approximations

Chair: Thanasis Kottas

10:30 AM - 12:00 PM IS: Clustering and random partition - II - CC Venice

Matthew Heiner

Partially Geometric Stick-Breaking Processes

Luis Gutierrez

Bayesian Hypothesis Testing Using Flexible Models

Beatrice Franzolini

Random Partitions For Repeated Measures Design In Multi-view And Network Data

Chair: Fernando Quintana

10:30 AM - 12:00 PM IS: BNP in economics and finance - CC Hermosa

Anna Simoni

Panel data models with randomly generated groups: Bayesian inference and density forecasts

John Maheu

Equity vs Bonds, What Happened During COVID-19? A Bayesian Nonparametric Analysis

Andriy Norets

Bayesian Nonparametric Model for Nonseparable Instrumental Variable Regression

Chair: Catherine Forbes

12:00 PM - 12:15 PM Closing - NorthWest Campus Auditorium

