

Tuesday, 25 Jun

9:30 - 10:00 Opening
Room: Grande Auditorio

10:00 - 11:00 Peter Hall's Lecture
Chair: Ingrid Van Keilegom
Room: Grande Auditorio

10:00 Peter Hall and optimality and efficiency issues in smoothing in nonparametric and semiparametric estimation
Irène Gijbels

11:00 - 11:30 Coffee Break

11:30 - 12:30 Contributed 1

Bayesian nonparametrics

Chair: Inês Sousa
Room: Sala Polivalente 1.1

11:30 Bayesian semiparametric variable selection with shrinkage prior
Mingan Yang

11:50 Conic Sparsity: Estimation of Regression Parameters in Closed Convex Polyhedral Cones
Neha Agarwala, Anindya Roy, Arkaprava Roy

12:10 Stepwise Bayesian Optimization with Additive Kernels with High-Dimensional Constraints in Cost-Effectiveness Analysis
David Gomez-Guillén, Mireia Diaz, Jesus Cerquides

Dimension reduction techniques

Chair: James Allison
Room: Sala Polivalente 1.3

11:30 Covariate-informed reconstruction of functional data with missing fragments
Maximilian Ofner, Siegfried Hörmann

11:50 Extrinsic PCA
Vic Patrangenaru, Robert Paige, Ka Chun Wong, Mihaela Pricop-Jeckstadt

12:10 Multi-response Linear Regression Estimation Based on Low-rank Pre-smoothing
Xinle Tian

Functional data analysis 1

Chair: Andrea Meilán-Vila
Room: Grande Auditorio

11:30 Change point localisation and inference in fragmented functional data
Gengyu Xue, Haotian Xu, Yi Yu

11:50 Variable selection in nonparametric regression with functional and mixed covariates
Leonie Selk

12:10 Bias reduction for nonparametric estimation with functional data
Melanie Birke, Tim Greger

Regularized regression

Chair: Philippe Lambert

Room: Sala Polivalente 1.2

- 11:30 Density regression via Dirichlet process mixtures of normal structured additive regression models
Maria Xose Rodriguez Alvarez, Vanda Inácio, Nadja Klein
- 11:50 Cost-sensitive semi-parametric classification
Jorge C. Rella, Ricardo Cao, Juan M. Vilar Fernández
- 12:10 A non asymptotic analysis of the first component PLS regression
Luca Castellì, Clément Marteau, Irène Gannaz

Survival Analysis 1

Chair: Vlad Stefan Barbu

Room: Pequeno Auditorio

- 11:30 Conditional dependence structure under selection bias and informative censoring
Yassir Rabhi
- 11:50 Single-index model under (left-)truncation
Ewa Strzalkowska-Kominiak, Anna Herud
- 12:10 Local differential privacy in survival analysis using private failure indicators
Mikael Escobar-Bach, Maxime Egea

Time series 1

Chair: Angelina Roche

Room: Sala Polivalente 1.4

- 11:30 Local Whittle Estimation in Time-Varying Long Memory Series
Josu Arteche
- 11:50 A Test of Independence over Periods of Time for Locally Stationary Processes
Carina Beering
- 12:10 Adaptive prediction for functional time series
Hassan Maïssoro, Valentin Patilea, Myriam Vimond

12:30 - 13:30 Lunch

13:30 - 15:30 Invited 1

Nonparametric spatial statistics

Organizer: Rubén Fernández-Casal

Chair: Raquel Menezes

Room: Grande Auditorio

- 13:30 Testing a parametric circular regression function with spatially correlated data
Andrea Meilán-Vila, Mario Francisco-Fernández, Rosa M. Crujeiras
- 14:00 Spatiotemporal statistical analysis and inference techniques in Oceanography and Marine Science
Isabel Fuentes Santos
- 14:30 Approximating the cross-covariance of multivariate spatial processes through the direct covariances
Raquel Menezes, Pilar Garcia-Soidán
- 15:00 Nonparametric Geostatistics
Rubén Fernández-Casal

Adaptive functional data analysis

Organizer: Valentin Patilea

Chair: Valentin Patilea

Room: Pequeno Auditorio

- 13:30 A global test for heteroscedastic one-way FMANOVA with applications
Tianming Zhu, Jin-Ting Zhang, Ming-Yen Cheng

14:00 Minimax rates in regression models for functional data
Angelina Roche

14:30 Adaptive fPCA and score inference
Sunny Wang, Valentin Patilea

15:00 Locally Adaptive Online Functional Data Analysis
Valentin Patilea, Jeffrey Racine

Nonparametric methods in genetics and neuroscience

Organizer: Jere Koskela

Chair: Jere Koskela

Room: Sala Polivalente 1.2

13:30 Estimating multiple merger coalescents' characteristic measure
Arno Siri-Jégousse

14:00 Heavy-Tailed NGG-Mixture Models
Karla Vianey Palacios Ramirez

14:30 Asymptotic guarantees for Bayesian phylogenetic tree reconstruction
Alisa Kirichenko, Luke Kelly, Jere Koskela

15:00 Variable Selection through Penalized Regression: a stable approach
Ana Helena Tavares, Vera Afreixo, Gabriela Moura

Model specification and goodness-of-fit problems

Organizer: Juan Carlos Pardo-Fernández

Chair: Juan Carlos Pardo-Fernández

Room: Sala Polivalente 1.3

13:30 Two density-based tests for the k-sample problem with left-truncated data
Adrián Lago, Juan Carlos Pardo-Fernández, Jacobo de Uña-Álvarez, Ingrid Van Keilegom

14:00 Testing normality for many populations
M. Dolores Jiménez-Gamero

14:30 Testing for independence in vector autoregressive models
James Allison, Simos Meintanis, Joseph Ngatchou-Wandji

15:00 Tests of exogeneity in proportional hazards models with censored data
Ingrid Van Keilegom, Gilles Crommen, Jean-Pierre Florens

Assumption lean and other nonparametrics for health data

Organizer: Ronghui Xu

Chair: Ronghui Xu

Room: Sala Polivalente 1.4

13:30 Stage-Aware Learning for Dynamic Treatments
Hanwen Ye, Wenzhuo Zhou, Ruoqing Zhu, Annie Qu

14:00 Doubly Robust Estimation under Possibly Misspecified Marginal Structural Cox Model
Denise Rava, Ronghui Xu, Jelena Bradic, Jiyu Luo

14:30 Learning conditional average treatment effects using instrumental variables
Stijn Vansteelandt, Karla Diaz-Ordaz, Stephen O'Neill, Richard Grieve

15:00 Personalized reinforcement learning for healthcare: With applications to sepsis management in ICU
Linda Zhao, Junhui Cai, Ran Chen

Shape constrained statistical inference

Chair: Geurt Jongbloed

Organizer: Geurt Jongbloed

Room: Sala Polivalente 1.1

13:30 Doubly robust estimation and inference for a log-concave counterfactual density
Charles Doss

14:00 Semiparametric density estimation using copulas with log-concave marginals
Hanna Jankowski, Sawitree Boonpatcharanon

- 14:30 Density estimation using Total variation regularization
Arlene Kyoung Hee Kim, Adityanand Guntuboyina, Dohyeong Ki
- 15:00 Stereological determination of particle size distributions for similar convex bodies
Thomas van der Jagt, Geurt Jongbloed, Martina Vittorietti

15:30 - 16:00 Coffee Break

16:00 - 18:00 Invited 2

Network analysis and cluster analysis

Organizer: Anderson Ye Zhang

Chair: Anderson Ye Zhang

Room: Grande Auditorio

- 16:00 Interpretable network-assisted prediction
Tiffany Tang, Elizaveta Levina, Ji Zhu
- 16:30 Consistent community recovery from temporal and higher-order network interactions
Lasse Leskelä, Konstantin Avrachenkov, Maximilien Drevet
- 17:00 Improved Mean Estimation in the Hidden Markovian Gaussian Mixture Model
Mohamed Ndaoud

Nonparametric methods to take advantage of auxiliary data in health settings

Organizer: Layla Parast

Chair: Layla Parast

Room: Pequeno Auditorio

- 16:00 Doubly Flexible Estimation under Label Shift
Yanyuan Ma
- 16:30 Conditional independence testing by comparing empirical conditional cumulative distribution functions
Boris Hejblum, Marine Gauthier, Sara Fallet, Rodolphe Thiébaud, Denis Agniel
- 17:00 A rank-based approach to evaluate a surrogate marker in a small sample setting
Layla Parast, Tianxi Cai, Lu Tian
- 17:30 Semiparametrically correcting for data quality issues to estimate whole-hospital, whole-body health from the EHR
Sarah Lotspeich, Joseph Rigdon

Random partitions and Bayesian dependent clustering

Organizer: Beatrice Franzolini

Chair: Beatrice Franzolini

Room: Sala Polivalente 1.1

- 16:00 Understanding partially exchangeable nonparametric priors for discrete structures
Beatrice Franzolini, Antonio Lijoi, Igor Pruenster, Giovanni Rebaudo
- 16:30 Informed Random Partition Models with Temporal Dependence
Garritt Page, Sally Paganin, Fernando Quintana
- 17:00 Continuous Clustering Models -- High-Dimensional Clustering Made Easy
Leo Duan, Arkaprava Roy
- 17:30 Bayesian nonparametric net survival estimation with clustering
Alan Riva-Palacio

Bayesian and mixed model approaches to optimal P-spline modelling

Organizer: Paul Eilers

Chair: Paul Eilers

Room: Sala Polivalente 1.2

- 16:00 A very short introduction to optimal smoothing with P-splines
Paul Eilers
- 16:30 Sparse mixed model P-splines with applications to multidimensional smoothing
Martin Boer

- 17:00 Fast Bayesian inference in complex additive models for censored data using Laplace P-splines
Philippe Lambert
- 17:30 Statistical modeling of infectious diseases with Laplacian-P-splines
Oswaldo Gressani
- Statistics for non-stationary processes**
Organizer: Patrice Bertail
Chair: Patrice Bertail
Room: Sala Polivalente 1.3
- 16:00 Models for Science Data with Hidden Periodic Structure
Antonio Napolitano
- 16:30 Harris recurrent Markov chains and nonlinear monotone cointegrated models
Carlos Fernández, Patrice Bertail, Cecile Durot
- 17:00 Optimal choice of bootstrap block length for periodically correlated time series
Anna Dudek, Patrice Bertail
- 17:30 Locally Stationary Spatial Processes
Soumendhra Lahiri
- Nonparametric methods for complex data**
Organizer: Byeong Park
Chair: Byeong Park
Room: Sala Polivalente 1.5
- 16:00 Inference for Changing Periodicity, Smooth Trend and Covariate Effects in Time Series
Ming-Yen Cheng, David Siegmund, Shouxia Wang, *Lucy Xia*
- 16:30 Accelerated age-period-cohort models
Maria Dolores Martinez-Miranda, M. Luz Gamiz, Enno Mammen, Jens Perch Nielsen
- 17:00 A pseudo-metric between probability distributions based on depth-trimmed regions
Guillaume Staerman, *Pavlo Mozharovskiy*, Pierre Colombo, Stephan Clemencon, Florence D'Alche-Buc
- 17:30 Analysis in spectral domain for spatial data under fixed domain asymptotics
Chae Young Lim, Joonho Shin, Wei-Ying Wu
- Advances in random networks**
Organizer: Marianna Pensky
Chair: Elizaveta Levina
Room: Sala Polivalente 1.4
- 16:00 Signed Diverse Multiplex Networks: Clustering and Inference
Marianna Pensky
- 16:30 Random line graphs and edge-attributed network inference
Avanti Athreya, Zachary Lubbets, Youngser Park, Carey Priebe
- 17:00 Joint Spectral Clustering in Multilayer Degree-Corrected Stochastic Blockmodels
Zachary Lubbets, Joshua Agterberg, Jesus Arroyo
- 17:30 Intensity Profile Projection: A Framework for Continuous-Time Representation Learning for Dynamic Networks
Alexander Modell

18:00 - 19:00 Welcome Reception

Wednesday, 26 Jun

9:00 - 10:00 Contributed 2

Count data

Chair: Daniel Nevo

Room: Sala Polivalente 1.1

- 9:00 The minimax risk in nonparametric testing of discrete distributions for uniformity under missing ball alternatives
Alon Kipnis
- 9:20 Semiparametric test for overdispersed count data
Stefano Bonnini, Michela Borghesi
- 9:40 Multiple change-point detection in a Poisson process
Emilie Lebarbier

Extremes

Chair: Armelle Guillou

Room: Sala Polivalente 1.3

- 9:00 Extremal behaviour and convergence rates for sample-based geometric quantiles and half space depths
Marie Kratz
- 9:20 Spatio-temporal model for the occurrence of extreme events and inference on their extent
Ana C. Cebrian
- 9:40 Risk Assessment using a Semi-Parametric Approach
Ayana Mateus, Frederico Caeiro

Functional data analysis 2

Chair: Annika Betken

Room: Grande Auditorio

- 9:00 Measuring dependence between a scalar response and a functional covariate
Daniel Strenger, Siegfried Hörmann
- 9:20 Directional regularity: Achieving faster rates of convergence in multivariate functional data
Sunny Wang, Omar Kassi
- 9:40 Functional relevance based on continuous Shapley value
Pedro Delicado, Cristian Pachón-García

Smoothing methods

Chair: José E. Chacón

Room: Sala Polivalente 1.2

- 9:00 Bayesian wavelet regression using nonlocal prior mixtures and novel parameterizations
Nilotpal Sanyal
- 9:20 The Effective Degrees of Freedom in Kernel Density Estimation
Alex Trindade, Sofia Guglielmini, Igor Volobouev
- 9:40 Statistical modelling of the firing activity of grid cells using local polynomial kernel smoothing methods
Rida Ayyaz, Ioannis Papastathopoulos, Mathew Nolan

Survival Analysis 2

Chair: Rebecca Betensky

Room: Pequeno Auditorio

- 9:00 Increasing odds ratio, testing and applications
Paulo Eduardo Oliveira, Idir Arab, Tommaso Lando
- 9:20 Quantile modelling under dependent censoring
Myrthe D'Haen, Ingrid Van Keilegom, Anneleen Verhasselt
- 9:40 Testing for sufficient follow-up in survival data with a cure fraction
Tsz Pang Yuen, Eni Musta

Time series 2

Chair: Sophie Dabo

Room: Sala Polivalente 1.4

- 9:00 Bootstrap inference for group factor models
Benoit Perron, Silvia Gonçalves, Julia Koh
- 9:20 Distribution-free prediction intervals from interval score optimized pairs of nonparametric regression quantiles
Harry Haupt, Joachim Schnurbus, Ida Bauer
- 9:40 Pointwise spectral density estimation under local differential privacy
Karolina Klockmann, Tatyana Krivobokova, Cristina Butucea

10:00 - 11:00 Keynote Talk 1

Chair: Igor Pruenster

Room: Grande Auditorio

- 10:00 Causality-inspired Statistical Machine Learning
Peter Bühlmann

11:00 - 11:30 Coffee Break

11:30 - 12:30 Special Invited Talk 1

Chair: Sophie Dabo

Room: Grande Auditorio

- 11:30 Provably Fast and Accurate Estimation of Neural Nets
Andrew R. Barron

12:30 - 13:30 Lunch

13:30 - 15:30 Invited 3

Nonstationary processes: theory and applications

Organizer: Anna Dudek

Chair: Anna Dudek

Room: Sala Polivalente 1.3

- 13:30 Bayesian nonparametric spectral analysis of locally stationary processes
Yifu Tang, Claudia Kirch, Jeong Eun Lee, Renate Meyer
- 14:00 Spectral analysis and subsampling for spectrally correlated processes
Anna E. Dudek, Bartosz Majewski
- 14:30 Trend estimation in a class of explosive count time series
Anne Leucht, Michael Neumann
- 15:00 Nonparametric hypothesis testing for the structure of spectrum of nonstationary processes
Jean-Marc Freyermuth

Theory and methods in Bayesian nonparametrics: recent advances

Organizer: Antonio Lijoi

Chair: Igor Pruenster

Room: Sala Polivalente 1.4

- 13:30 Functional connectivity across the human subcortical auditory system using an autoregressive matrix-Gaussian copula graphical model approach with partial correlations
Noirrit Kiran Chandra, Kevin Sitek, Bharath Chandrasekaran, Abhra Sarkar
- 14:00 Constrained Dirichlet Processes and Moment Condition Models
Jaeyong Lee
- 14:30 Distances on random probability measures
Marta Catalano
- 15:00 Bayesian Nonparametrics with the Martingale Posterior
Edwin Fong

Estimation and testing problems with survival data

Organizer: Jacobo de Uña-Álvarez

Chair: Jacobo de Uña-Álvarez

Room: Sala Polivalente 1.5

- 13:30 Surviving the multiple testing problem: RMST-based tests in general factorial designs
Merle Munko, Marc Ditzhaus, Dennis Dobler, Jon Genuneit
- 14:00 Bivariate dependent censoring with covariates
Noël Veraverbeke
- 14:30 A fully parametric model for non-proportional hazards survival analysis
María del Carmen Pardo, María del Mar Fenoy, Narayanaswamy Balakrishnan
- 15:00 Estimation and regression for sequentially-truncated data
Rebecca Betensky, Jing Qian, Erik Parner, Morten Overgaard

Large scale semi-parametric inference

Organizer: Omiros Papaspiliopoulos

Chair: Omiros Papaspiliopoulos

Room: Sala Polivalente 1.2

- 13:30 Partially factorized variational inference for high-dimensional mixed models
Max Goplerud, Omiros Papaspiliopoulos, Giacomo Zanella
- 14:00 Penalized likelihood estimation and inference in high-dimensional logistic regression
Ioannis Kosmidis, Philipp Sterzinger
- 14:30 On the role of parametrization in models with a misspecified nuisance component
Heather Battey
- 15:00 Empirical partially Bayes multiple testing and compound chi-square decisions
Nikolaos Ignatiadis, Bodhisattva Sen

Recent advances in time series and functional data analysis

Organizer: Alexander Aue

Chair: Jens-Peter Kreiss and Efstathios Paparoditis

Room: Sala Polivalente 1.1

- 13:30 Intrinsic and Extrinsic Graphical Models for Functional Data
Victor Panaretos
- 14:00 Integrative analysis of Riemannian and high-dimensional data
Eardi Lila, James Buenfil
- 14:30 A statistical framework for analyzing shape in a time series of random geometric objects
Anne van Delft, Andrew J. Blumberg
- 15:00 Prediction of Singular VARs and an Application to Generalized Dynamic Factor Models
Siegfried Hörmann, Gilles Nisol

Nonparametric causal inference

Organizer: Mats Stensrud

Chair: Mats Stensrud

Room: Pequeno Auditorio

- 13:30 A bipartite ranking approach to two-sample nonparametric hypothesis testing
Myrto Limmios, Stephan Clemenccon, Nicolas Vayatis
- 14:00 A nonparametric Gail-Simon test and estimand for qualitative effect heterogeneity
Mats Stensrud, Aaron Hudson, Riccardo Brioschi, Oliver Dukes
- 14:30 Nonparametric inference on non-negative dissimilarity measures at the boundary of the parameter space
Aaron Hudson
- 15:00 Kernel Debiased Plug-in Estimation
Ivana Malenica

Recent advances in semiparametric and nonparametric econometrics

Organizer: Juan Carlos Escanciano

Chair: Juan Carlos Escanciano

Room: Grande Auditorio

- 13:30 Regular identification of the ATE without the strict overlap condition
Telmo Pérez-Izquierdo
- 14:00 On the Existence and Information of Orthogonal Moments
Juan Carlos Escanciano, Facundo Argañaraz
- 14:30 Estimation and inference of panel data models with a generalized factor structure
Juan Manuel Rodriguez-Poo, Alexandra Soberon, Stefan Sperlich
- 15:00 Chi-square goodness-of-fit tests to check for conditional moment restrictions
Miguel A. Delgado, Antonio Raiola

15:30 - 16:00 Coffee Break

16:00 - 17:00 ISNPS General Assembly
Room: Grande Auditorio

17:00 - 19:00 Invited 4

Modern advances at the interface of statistical learning and inference

Organizer: Pragya Sur

Chair: Subhabrata Sen

Room: Grande Auditorio

- 17:00 Minimax estimation in Efron's two-groups model
Chao Gao
- 17:30 Denoising over network with application to partially observed epidemics
Olga Klopp, Claire Donnat, Nicolas Verzelen
- 18:00 Fast Linear Model Trees by PILOT
Peter Rousseeuw, Jakob Raymaekers, Tim Verdonck, Ruicong Yao
- 18:30 Adaptive Inference in Sequential Experiments
Cun-Hui Zhang, Mufang Ying, Koulik Khamaru

Causal inference for studying vaccine effects

Organizer: Daniel Nevo

Chair: Aaron Hudson

Room: Pequeno Auditorio

- 17:00 Evaluating immune correlates of protection in vaccine efficacy trials with stochastic-interventional causal effects
Nima Hejazi
- 17:30 Nonparametric Identification of Immunologic and Behavioral Effects in Vaccination Studies
Daniel Nevo, Mats Stensrud, Uri Obolski

- 18:00 Waning of treatment effects
Mats Stensrud, Matias Janvin
- 18:30 Vaccine effectiveness estimation under the test-negative design: identifiability and efficiency theory for causal inference under conditional and control exchangeability
Cong Jiang, Denis Talbot, Sara Carazo, Mireille Schnitzer

Computer-intensive methods for complex data

Organizer: Dimitris Politis

Chair: Dimitris Politis

Room: Sala Polivalente 1.1

- 17:00 Comparing many functional means
Stanislav Volgushev, Dehan Kong, Colin Decker

- 17:30 Statistical inference with optimal sampling
Alan Welsh, Nan Zou

- 18:00 Bootstrapping "Likelihood Ratio tests" under misspecification
Pascal Lavergne, Patrice Bertail

- 18:30 Bootstrap-assisted inference for weakly stationary time series
Yunyi Zhang

Topics in Econometrics: Big Data, Panel Estimation, and Forecasted

Treatment

Organizer: Jeffrey Racine

Chair: Jeffrey Racine

Room: Sala Polivalente 1.2

- 17:00 A Robust Method for Microforecasting and Estimation of Random Effects
Silvia Sarpietro, Raffaella Giacomini, Sokbae Lee

- 17:30 Partial identification in nonlinear panels
Chris Muris

- 18:00 Fast Inference for Quantile Regression with Tens of Millions of Observations
Youngki Shin, Yuan Liao, Myung Hwan Seo, Sokbae Lee

- 18:30 Forecasted Treatment Effects
Irene Botosaru

Statistics for spatial and network data

Organizer: Soumendra Lahiri

Chairs: Soumendra Lahiri

Room: Sala Polivalente 1.3

- 17:00 Variance Estimation of Spectral Statistics for Spatial Processes using Subsampling
Souvick Bera, Daniel Nordman, Soutir Bandyopadhyay

- 17:30 Empirical likelihood inference in the frequency domain for dependent data
Dan Nordman, Haihan Yu, Mark Kaiser

- 18:00 Graph wavelet variances
Debashis Mondal, Rodney Fonseca, Aluisio Pinheiro

- 18:30 Conformal Prediction for Network-Assisted Regression
Robert Lunde, Elizaveta Levina, Ji Zhu

Topics in nonparametric and semiparametric econometrics

Organizers: Hira Koul and Indeewara Perera

Chair: Indeewara Perera

Room: Sala Polivalente 1.4

- 17:00 Estimation of Grouped Time-Varying Network Vector Autoregressive Models
Degui Li, Bin Peng, Songqiao Tang, Weibiao Wu

- 17:30 Inference of Unknown Semiparametric Transformation via Distribution Regression Estimation
Yi He, Juan-Juan Cai

- 18:00 Bootstrap specification tests for multivariate GARCH processes
Indeewara Perera, Kanchana Nadarajah

18:30 Regression Modelling under General Heterogeneity
Liudas Giraitis, Yufei Li, George Kapetanios

Semi- and non-parametric approaches for inference on high dimensional data

Organizer: Wen Zhou

Chair: Wen Zhou

Room: Sala Polivalente 1.5

17:00 Innovative unsupervised approach for simultaneous subgroup recovery and group-specific feature identification

Lyuou Zhang, Xiwei Tang, Wen Zhou

17:30 Multidimensional Signal-to-Noise Ratio Estimation for High Dimensional Random Effects Models under Heteroscedasticity

Xiaodong Li, Xiaohan Hu, Zhentao Li

18:00 Local perspectives in latent space network models

Lijia Wang, YX Rachel Wang, Xin Tong, Xiao Han, Yanhui Wu

18:30 Sparse Heteroskedastic PCA in High Dimensions

Zhao Ren, Rui Kang, Peiliang Zhang

Thursday, 27 Jun

9:00 - 11:00 Invited 5

Nonparametric estimation in high dimensions

Organizer: Zhou Fan

Chair: Nikolaos Ignatiadis

Room: Grande Auditorio

- 9:00 Rate Optimality and Phase Transition for User-Level Local Differential Privacy
Yi Yu
- 9:30 Fundamental limits of community detection from multi-view data
Subhabrata Sen, Xiaodong Yang, Buyu Lin
- 10:00 Spectrum-Aware Debiasing: A Modern Inference Paradigm with Applications to Principal Component Regression
Pragya Sur
- 10:30 Tightness of SDP and Burer-Monteiro Factorization for Phase Synchronization in High Noise Regime
Anderson Ye Zhang

Advanced inference of complex data

Organizer: Regina Liu

Chair: Dimitris Politis

Room: Pequeno Auditorio

- 9:00 Fair conformal prediction and risk control
Linjun Zhang
- 9:30 Shape analysis of functional data
Karthik Bharath
- 10:00 Selective inference with randomized Group LASSO estimators for general models
Snigdha Panigrahi
- 10:30 Nonparametric density estimation from streaming data
Aurore Delaigle

Causal inference in medical and public health studies

Organizer: Li Hsum

Chair: Yu Shen

Room: Sala Polivalente 1.1

- 9:00 Estimation of the complier causal hazard ratio under dependent censoring
Gilles Crommen, Jad Beyhum, Ingrid Van Keilegom
- 9:30 A Multi-State Modeling for the Cost-Effectiveness Analysis in Disease Prevention
Li Hsu
- 10:00 Using Joint Models for Longitudinal and Time-to-Event Data to Investigate the Causal Effect of Salvage Therapy after Prostatectomy
Jeremy Taylor, Dimitris Rizopoulos
- 10:30 Causal and Statistical Uncertainty for Individual-Level Causal Inference
Uri Shalit

Statistics for AI

Organizer: Yongdai Kim

Chair: Yongdai Kim

Room: Sala Polivalente 1.2

- 9:00 Minimax optimal density estimation using a shallow generative model
Chae Minwoo, Hyeok Kyu Kwon

- 9:30 A statistical analysis of an image classification problem
Sophie Langer, *Juntong Chen*, Johannes Schmidt-Hieber
- 10:00 Statistical Analysis on In-Context Learning
Masaaki Imaizumi
- 10:30 Optimal high-dimensional nonparametric regression with variational neural networks
Ilseang Ohn

Statistics for dependent data

Organizers: Jens-Peter Kreiss and Efstathios Paparoditis

Chairs: Jens-Peter Kreiss and Efstathios Paparoditis

Room: Sala Polivalente 1.3

- 9:00 A log-linear model for non-stationary time series of counts
Michael H. Neumann, Anne Leucht
- 9:30 Autoregressive Network: Sparsity and Degree Heterogeneity
Yutong Wang
- 10:00 Learning Graphical Models for nonstationary multivariate time series
Suhasini Subba Rao, Jonas Krampe
- 10:30 Asymptotic Theory for Constant Step Size Stochastic Gradient Descent
Jiaqi Li, Wei Biao Wu, Zhipeng Lou, *Stefan Richter*

Object Oriented Data Analysis: Trees and Graphs

Organizer: Steve Marron

Chair: Stephan Huckemann

Room: Sala Polivalente 1.4

- 9:00 Barycentric Subspace Analysis for Sets of Unlabelled Graphs
Anna Calissano, Elodie Maignant, Xavier Pennec
- 9:30 Sticky Flavors
Stephan F. Huckemann, Lars Lammers, Do Tran Van
- 10:00 Brownian motion, bridges and Bayesian inference in BHV tree space
Tom Nye, *William Woodman*
- 10:30 Estimating a mean tree for phylogenetic trees with missing taxa
Maryam Garba, Tom Nye

Analysis of curves

Organizer: Aurore Delaigle

Chair: Aurore Delaigle

Room: Sala Polivalente 1.5

- 9:00 Multivariate higher-order kernels
José E. Chacón, Tarn Duong
- 9:30 Robust estimation under small measurement errors
Michael Stewart, Alan Welsh
- 10:00 Partially observed functional data over non-Euclidean domains
Alessandro Palumbo, Marco Stefanucci, Eleonora Arnone, *Laura M. Sangalli*
- 10:30 Kernel estimation for continuous-time semi-Markov processes
Vlad Stefan Barbu

11:00 - 11:30 Coffee Break

11:30 - 12:30 Keynote Talk 2

Chair: Malka Gorfine

Room: Grande Auditorio

- 11:30 Deep Learning for Censored Survival Data
Jane-Ling Wang

12:30 - 13:30 Lunch

13:30 - 15:30 Invited 6

Current topics in biostatistics - nonparametric approaches

Organizer: Somnath Datta

Chair: Michael Daniels

Room: Grande Auditorio

- 13:30 Analysis of spatially clustered survival data with unobserved covariates using SBART
Debajyoti Sinha, Durbadal Ghosh, Antonio Linero, George Rust
- 14:00 A Bayesian nonparametric approach for nonignorable missingness in EHR data
Michael Daniels, David Lindberg, Sebastien Haneuse
- 14:30 Bayesian Nonparametric Modeling of Restricted Mean Survival Time: Subject Specific Inference and Average Treatment Effect
Sanjib Basu, Ruizhe Chen
- 15:00 Error Controlled Feature Selection for Ultrahigh Dimensional and Highly Correlated Feature Space Using Deep Learning
Taps Maiti

Regularized nonparametric regression for spatial and functional data

Organizer: Laura M. Sangalli

Chair: Eleonora Arnone

Room: Pequeno Auditorio

- 13:30 Sparsistency of estimators in semiparametric mixture of regression models
Abbas Khalili
- 14:00 A flexible framework for spatial quantile regression via PDE regularization
Cristian Castiglione
- 14:30 A regularized compositional functional concurrent regression model to investigate the dynamic relationship between causes of death and human longevity
Emanuele Giovanni Depaoli, Marco Stefanucci, Stefano Mazzucco
- 15:00 Function Estimation on Complex 3D Surfaces
Michelle Carey, Thiago Da Silva Cardoso

Recent advances in spatiotemporal data

Organizer: George Michailidis

Chair: George Michailidis

Room: Sala Polivalente 1.1

- 13:30 Semi-Parametric Inference for Doubly Stochastic Spatial Point Processes: An Approximate Penalized Poisson Likelihood Approach
Ali Shojaie, Si Cheng, Jon Wakefield
- 14:00 Likelihood Free Learning of Spatiotemporal Hawkes Processes
Moulinath Banerjee
- 14:30 Impulse Response Estimation in Large-scale Time Series
Sumanta Basu
- 15:00 Clustering of spatiotemporal processes using spectral analysis and applications
Soudeep Deb, Sayar Karmakar

Bayesian nonparametrics for complex data

Organizer: Ramses Mena

Chair: Ramses Mena

Room: Sala Polivalente 1.2

- 13:30 Finite population inference via martingales with a view towards quick counts
Carlos E. Rodríguez
- 14:00 Efficient estimation of the Posterior Similarity Matrix for Bayesian Nonparametric clustering
Johan van der Molen Moris

- 14:30 Clustering constrained on linear networks
Asael Fabian Martinez Martinez
- 15:00 Conditional partial exchangeability: a probabilistic framework for longitudinal and multi-view clustering
Beatrice Franzolini

Nonparametric statistics: methods and applications

Organizer: Sonali Das

Chair: Sonali Das

Room: Sala Polivalente 1.3

- 13:30 Co-variance Operator of Banach Valued Random Elements: U-Statistic Approach
Subhra Sankar Dhar
- 14:00 On A Goodness-of-fit Test for Elliptically Symmetric Distributions based on Scale-Scale Plots
Biman Chakraborty, Pritha Guha
- 14:30 Are winters getting shorter?
Anandamayee Majumdar, Sonali Das, Mehmet Balçilar, Levi Baguley, Siphumile Mangisa
- 15:00 Nonparametric Quantile Causality Assessment of Uncertainty and Gold: Multivariate and Bootstrap Extensions
Mehmet Balçilar, Rangan Gupta

Recent advances in depth and robust statistics

Organizer: Graciela Boente

Chair: Alicia Nieto-Reyes

Room: Sala Polivalente 1.4

- 13:30 Robust Functional Regression with Discretely Sampled Predictors
Ioannis Kalogridis
- 14:00 Local depth functions and clustering
Claudio Agostinelli, Giacomo Francisci, Anand Vidyashankar, Alicia Nieto-Reyes
- 14:30 Multivariate Singular Spectrum Analysis by Robust Diagonalwise Low-Rank Approximation
Mia Hubert, Fabio Centofanti, Peter Rousseeuw
- 15:00 On depth based two-sample tests: robustness in functional spaces
Alicia Nieto-Reyes, Felix Gnechtner, Claudia Kirch

Cutting-edge machine learning for complex biomedical data

Organizer: Malka Gorfine

Chair: Malka Gorfine

Room: Sala Polivalente 1.5

- 13:30 Deep Learning of Partially Linear Cox Models: Error Rate and Selection Consistency
Yi Li
- 14:00 Post-Estimation Strategies in Sparse Semiparametric Models for High-Dimensional Data Application
S. Ejaz Ahmed
- 14:30 Accommodating Time-Varying Heterogeneity in Risk Estimation: A Transfer Learning Approach
Yu Shen, Jing Ning, Ziyi Li
- 15:00 Confidence Intervals and Simultaneous Confidence Bands Based on Deep Learning
Asaf Ben Arie, Malka Gorfine

15:30 - 16:00 Coffee Break

16:00 - 17:00 Contributed 3

Functional data analysis 3

Chair: Laura M. Sangalli

Room: Grande Auditorio

- 16:00 Functional approaches to nonparametric risk reserving using standard chain ladder data
Matus Maciak, Ivan Mizera, Michal Pesta

- 16:20 Statistical Inference For Spectral Means Of Hilbert Space Valued Random Processes
Daniel Rademacher, Jens-Peter Kreiss, Efstathios Paparoditis
- 16:40 Bayesian Variable Selection for Function-on-Scalar Regression Models: A Comparative Analysis
Camila de Souza, Pedro H. T. de Oliveira Sousa, Ronaldo Dias

Goodness-of-fit

Chair: M. Dolores Jiménez-Gamero

Room: Sala Polivalente 1.1

- 16:00 Tests of uniformity on the sphere with data-driven parameters
Alberto Fernández-de-Marcos, Eduardo García-Portugués
- 16:20 Addressing missing data challenges: A multivariate goodness-of-fit testing perspective
Danijel Aleksić, Bojana Milošević
- 16:40 Single-index quantile regression models: a new lack-of-fit test
Mercedes Conde-Amboage, Alvaro Arrojo-Vazquez

High-dimensional data 1

Chair: Claudio Agostinelli

Room: Sala Polivalente 1.2

- 16:00 Robustifying and simplifying high-dimensional regression with applications to yearly stock returns and telematics data
Michael Scholz, Maria Dolores Martinez-Miranda, Malvina Marchese, Jens Perch Nielsen
- 16:20 On the speed of the convergence of some kernel random forests.
Isidoros Iakovidis
- 16:40 Break detection procedures for high dimensional panel data
Charl Pretorius, Heinrich Roodt

Imperfectly observed data

Chair: Luís Machado

Room: Pequeno Auditorio

- 16:00 Infinitely divisible priors on exponent measures
Florian Brück
- 16:20 Tests of Missing Completely At Random based on sample covariance matrices
Alberto Bordino, Tom Berrett
- 16:40 Efficient quantile regression under censoring using Laguerre polynomials
Alexander Kreiss, Ingrid Van Keilegom

Network analysis

Chair: Zach Lubberts

Room: Sala Polivalente 1.3

- 16:00 Network evolution by clustering attachment
Natalia Markovich, Maksim Ryzhov, Marijus Vaiciulis
- 16:20 Equivariant and Invariant Modelling of Complex Data
Andreas Abildtrup Hansen, Aasa Feragen, Anna Calissano
- 16:40 Point processes on linear networks and how to address their comparison
Maria Isabel Borrajo García, Ignacio González-Pérez, Wenceslao González-Manteiga

Statistical learning and inference

Chair: Anna Calissano

Room: Sala Polivalente 1.4

- 16:00 The gROC curve and the optimal classification system
Pablo Martínez-Cambor, Sonia Perez Fernandez

16:20 Bayesian Analysis of a Multivariate Density Ratio Model
Victor De Oliveira

16:40 An inference method to deal with multiple causes of failure
Nora Villanueva, Marta Sestelo, Luís Meira-Machado, Javier Roca-Pardiñas

17:00 - 19:00 Excursions

20:00 - 22:00 Dinner

Friday, 28 Jun

9:00 - 10:00 Contributed 4

High-dimensional data 2

Chair: Natalie Neumeyer

Room: Sala Polivalente 1.2

9:00 Self-normalized sums in high dimension: which covariance estimator?
Emmanuelle Gautherat, Patrice Bertail, El Mehdi Issouani

9:20 Adaptive clustering through composite entropy Minimization
Thierry Dumont

9:40 Tail Inference with Probability Weighted Moments
Frederico Caeiro, Ayana Mateus, Dora Gomes

Multiple testing and simultaneous inference

Chair: Ruth Heller

Room: Sala Polivalente 1.1

9:00 Robust semi-parametric testing in generalized linear models with many responses
Jesse Hemerik

9:20 Post-hoc and Anytime Valid Permutation and Group Invariance Testing
Nick Koning

9:40 Blending Point-wise Inference and Cluster Mass Tests for powerful Massively Univariate Tests to control FWER in EEG data
Olivier Renaud, Jaromil Frossard

Nonparametric econometrics 1

Chair: Miguel A. Delgado

Room: Grande Auditorio

9:00 M-Estimation in Censored Regression Model using Instrumental Variables under Endogeneity
Swati Shukla

9:20 Weak convergence of the function-indexed sequential empirical process for nonstationary time series
Florian Scholze

9:40 Multiscale Comparison of Nonparametric Trend Curves
Marina Khismatullina, Michael Vogt

Nonparametric inference and estimation 1

Chair: Richard Samworth

Room: Pequeno Auditorio

9:00 Testing Conditional Dependence
Laura Freijeiro González, Wenceslao González-Manteiga, Manuel Febrero Bande

9:20 Inference for bivariate data with unobserved order
Laura Dumitrescu

9:40 Exponential bounds for penalized Hotelling statistics
El Mehdi Issouani, Patrice Bertail, Emmanuelle Gautherat

Set estimation and inference

Chair: Clément Levrard

Room: Sala Polivalente 1.3

- 9:00 Data Depth for Probability Measures
Pierre Lafaye de Micheaux, Pavlo Mozharovskyi, Myriam Vimond
- 9:20 Shape constraints beyond convexity
Alejandro Cholaquidís, Leonardo Moreno, Beatriz Pateiro-López
- 9:40 On Improved Semi-Parametric Bounds For Tail Probability And Expected Loss
Artem Prokhorov, Erick Li

10:00 - 11:00 Keynote Talk 3

Chair: Inês Sousa

Room: Grande Auditorio

- 10:00 Common atoms mixture models in two biostatistical inference problems
Peter Mueller

11:00 - 11:30 Coffee Break

11:30 - 12:30 Special Invited Talk 2

Chair: Jacobo de Uña-Álvarez

Room: Grande Auditorio

- 11:30 Specification tests for statistical models with recent results and applications
Wenceslao González-Manteiga

12:30 - 13:30 Lunch

13:30 - 15:30 Invited 7

Statistics in the AI era: different perspectives

Organizer: Sophie Langer

Chair: Sophie Langer

Room: Grande Auditorio

- 13:30 Class probability matching for label shift adaptation
Annika Betken, Hongwei Wen, Hanyuan Hang
- 14:00 Differentially private penalized M-estimation via noisy optimization
Marco Avella Medina
- 14:30 Wasserstein Generative Adversarial Networks are Minimax Optimal Distribution Estimators
Arthur Stéphanovitch, Eddie Aamari, Clément Levrard
- 15:00 Dropout Regularization Versus L2-Penalization in the Linear Model
Gabriel Clara, Sophie Langer, Johannes Schmidt-Hieber

Bayesian nonparametrics for high-dimensional and complex models

Organizer: Ismaël Castillo

Chair: Ismaël Castillo

Room: Pequeno Auditorio

- 13:30 A variational Bayes approach to debiased inference in high-dimensional linear regression
Luke Travis, Ismaël Castillo, Alice L'Huillier, Kolyan Ray
- 14:00 Bayes in the extreme
Surya Tokdar
- 14:30 Almost-parallel Bayesian Gaussian Graphical Modelling in High-Dimensions
Deborah Sulem, David Rossell, Jack Jewson
- 15:00 Convergence rates of deep Gaussian process regression
Aretha Teckentrup

Conformal and simultaneous inference

Organizer: Etienne Roquain

Chair: Etienne Roquain

Room: Sala Polivalente 1.1

- 13:30 Combining exchangeable p-values
Matteo Gasparin, Aaditya Ramdas
- 14:00 Poly trees for nonparametric shrinkage estimation in high dimensional GLMs
Asaf Weinstein, Jonas Wallin, Daniel Yekutieli, Malgorzata Bogdan
- 14:30 Selecting informative conformal prediction sets with false coverage rate control
Ruth Heller, Etienne Roquain, Ulysse Gazin, Ariane Marandon
- 15:00 Transductive conformal inference with adaptive scores
Ulysse Gazin, Gilles Blanchard, Etienne Roquain

Extrapolation methods for extreme values

Organizer: Abdelaati Daouia

Chair: Abdelaati Daouia

Room: Sala Polivalente 1.2

- 13:30 Estimation of marginal excess moments for Weibull-type distributions
Yuri Goegebeur, Armelle Guillou, Jing Qin
- 14:00 A conditional tail expectation type risk measure for time series
Armelle Guillou, Yuri Goegebeur, Jing Qin
- 14:30 Functional Extreme-PLS
Stephane Girard, Cambyse Pakzad
- 15:00 Extreme expectile estimation for short-tailed data
Abdelaati Daouia, Simone Padoan, Gilles Stupfler

Recent advances in cure models

Organizer: Ricardo Cao

Chair: Ricardo Cao

Room: Sala Polivalente 1.3

- 13:30 A presmoothed estimator for the cure rate in mixture cure models
Ana López-Cheda, María Amalia Jácome Pumar, Samuel Saavedra
- 14:00 High dimensional mixture cure models: an application in cardio-oncology
Beatriz Piñeiro Lamas, Ricardo Cao, Ana López Cheda
- 14:30 Nonparametric inference for the mixture cure model with partially known cured observations
Wende Clarence Safari, Ignacio López-de-Ullibarri, María Amalia Jácome Pumar
- 15:00 Effect of a covariate in the cure rate of a mixture cure model using distance correlation
Blanca Estela Monroy Castillo, María Amalia Jácome Pumar, Ricardo Cao

High-dimensional regression

Organizer: Ursula Mueller

Chair: Ursula U. Müller

Room: Sala Polivalente 1.4

- 13:30 A Mean Field Approach to Empirical Bayes Estimation in High-dimensional Linear Regression
Bodhisattva Sen, Sumit Mukherjee, Subhabrata Sen
- 14:00 Statistical inference for the error distribution in functional linear models
Natalie Neumeier
- 14:30 Adaptive variable selection in sparse nonparametric models
Natalia Stepanova, Marie Turcicova
- 15:00 Variable selection by voting
Ursula U. Müller

Recent advances in multivariate time series analysis

Organizer: Giovanni Motta

Chair: Giovanni Motta

Room: Sala Polivalente 1.5

- 13:30 Measuring and Predicting Cyclical Turning Points, Gaps, and Drawdowns
Tommaso Proietti
- 14:00 Non-parametric estimation of Dynamic Factor Models in the frequency domain
Giovanni Motta, Michael Eichler
- 14:30 Random matrices and spectral clustering for modeling high-dimensional self-similar systems
Gustavo Didier
- 15:00 A semi-parametric approach for clustering high-dimensional, non-stationary, auto-correlated time series
Qiyuan Wang, Giovanni Motta

15:30 - 16:00 Coffee Break

16:00 - 18:00 Invited 8

Identification and inference in semi- and non-parametric econometric models

Organizer: Karim Chalak

Chair: Karim Chalak

Room: Grande Auditorio

- 16:00 Inference for Regression with Variables Generated from Unstructured Data
Timothy Christensen
- 16:30 Inference on High Dimensional Selective Labeling Models
Shakeeb Khan, Elie Tamer, Qingsong Yao
- 17:00 Higher Order Moments for Differential Measurement Error, with Application to Tobin's q and Corporate Investment
Karim Chalak, Daniel Kim
- 17:30 Doubly Robust Bayesian Difference-in-Differences Estimators
Christoph Breunig, Ruixuan Liu, Zhengfei Yu

Advancements in semiparametric and large-scale inference

Organizer: Olga Klopp

Chair: Olga Klopp

Room: Pequeno Auditorio

- 16:00 Sparse additive models with discrete optimization
Peter Radchenko
- 16:30 Optimal convex M-estimation via score matching
Oliver Feng, Min Xu, Yu-Chun Kao, Richard Samworth
- 17:00 Nonparametric Maximum Likelihood Estimation of Monotone Binary Regression Models under Weak Feature Impact
Dario Kieffer, Angelika Rohde
- 17:30 Dynamic Topic Model
Cristina Butucea, Nayel Bettache, Tracy Ke

Structured nonparametric models

Organizer: Maria Dolores Martinez-Miranda

Chair: Maria Dolores Martinez-Miranda

Room: Sala Polivalente 1.1

- 16:00 Robust and flexible model selection for local linear conditional survival function estimation
Dimitrios Bagkavos, Jens Perch Nielsen, Montserrat Guillen
- 16:30 A semiparametric infinite-dimensional approach for factor analysis and dynamical multiple regression on manifolds
María Dolores Ruiz-Medina
- 17:00 A Complete Framework for Model-Free Difference-in-Differences Estimation
Stefan Sperlich
- 17:30 Smooth backfitting for additive hazard rates
Munir Eberhardt Hiabu, Stephan Bischofberger, Enno Mammen, Jens Nielsen

Bayesian sparse learning in high-dimensional problems

Organizer: Surya Tokdar

Chair: Surya Tokdar

Room: Sala Polivalente 1.2

- 16:00 Bayesian Covariance Estimation for Multi-group Matrix-variate Data
Elizabeth Bersson
- 16:30 Deep horseshoe Gaussian processes
Ismaël Castillo, Thibault Randrianarisoa
- 17:00 Bayesian inference in high-dimensional mixed frequency regression
Kshitij Khare
- 17:30 Bayesian Variable Selection in High-dimensional Settings with Grouped Covariates
Minerva Mukhopadhyay

Statistical methods for geometric inference and set estimation

Organizer: Beatriz Pateiro-López

Chair: Beatriz Pateiro-López

Room: Sala Polivalente 1.3

- 16:00 Wasserstein convergence of persistence diagrams on generic manifolds
Vincent Divol
- 16:25 Statistical difficulty of support estimation and dimensionality reduction
Clément Levrard, Eddie Aamari, Catherine Aaron, Clément Berenfeld
- 16:50 Confidence Regions for Filamentary Structures
Wanli Qiao
- 17:15 Highest density region estimation for manifold data
Diego Bolón, Rosa M. Crujeiras, Alberto Rodríguez-Casal
- 17:40 Two sample testing for isometry of two manifolds
Wolfgang Polonik, Eunseong Bae

Advances in functional data analysis

Organizer: Michelle Carey

Chair: Michelle Carey

Room: Sala Polivalente 1.4

- 16:00 Regression in quotient metric spaces with a focus on elastic curves
Lisa Steyer, Almond Stöcker, Sonja Greven
- 16:30 Space-time regression with non-stationary PDE penalization for the analysis of mobile phone data
Eleonora Arnone, Mara Sabina Bernardi, Laura Maria Sangalli, Piercesare Secchi
- 17:00 Statistical Analysis of Collections of Networks
Catherine Higgins, Michelle Carey, Hulin Wu
- 17:30 Block testing in precision matrix for functional data analysis
Alessia Pini, Marie Morvan, Madison Giacomci, Valerie Monbet

Recent advances in non-and semiparametric models in survival analysis

Organizer: Ingrid Van Keilegom

Chair: Ingrid Van Keilegom

Room: Sala Polivalente 1.5

- 16:00 Survival Estimation with Time-Varying Covariates Using Neural Networks
Bingqing Hu, Bin Nan
- 16:30 Cumulative Incidence Function Estimation Using Population-Based Biobank Data
Malka Gorfine, David M. Zucker, Shoval Shoham
- 17:00 A competing risks analysis with cause-specific cure
Eni Musta, Tijn Jacobs, Marta Fiocco
- 17:30 Conditional C-index for survival data with a cure fraction
Bo Han, Ingrid Van Keilegom, Juan Carlos Pardo-Fernandez

18:00 - 19:00 Posters

Scalar-on-Shape Regression Models in Functional Data Analysis
Sayan Bhadra, Anuj Srivastava

Modal Regression with Missing Response Data
Tomás R. Cotos-Yáñez, Rosa M. Crujeiras, Ana Pérez-González

Goodness-of-fit tests for circular data based on a Parzen-Rosenblatt type estimator
Carlos Tenreiro

Estimating asymptotic independence on the lower tail
Marta Ferreira

Multivariate asymptotic test of pairwise independence for orientations with the same symmetry group
Iva Karafiátová, Jakub Staněk, Zbyněk Pawlas

Inference on Data with Both Multiplicative and Additive Measurement Error
Yuxiang Zong, Yinfu Liu, Yanyuan Ma, Ingrid Van Keilegom

Semiparametric Generative Invariance
Carlos García Meixide, David Ríos Insua

Nonparametric methods for the extremal index estimation
Dora Prata Gomes, Manuela Neves

Bayesian Additive Regression Trees in Complex Survey
Abhishek Mandal

Modeling multivariate spatial dependency with copulas: a novel approach
Manuel Úbeda-Flores

Local logistic regression for dimension reduction in binary classification
Touqeer Ahmad, François Portier, Gilles Stupfler

Approximate Bayesian computation for Arrhenius relationship accelerated life tests
Lizanne Raubenheimer, Neill Smit

Explainable Deep Learning: a methodology to train Generalized Additive Model with deep neural networks
Ines Ortega-Fernandez, Marta Sestelo

Functional Data Analysis for Predicting Landed Fish Abundance per unit effort (LPUE)
Manuel Oviedo-de la Fuente, Raquel Menezes, Alexandra A. Silva

Extrinsic Principal Component Analysis
Ka Chun Wong, Vic Patrangenaru

Clustering cumulative incidence functions with clustcurv R package.
Marta Sestelo, Luís Meira-Machado, Nora Villanueva, Javier Roca-Pardiñas

Testing the fit of discrete response models with covariates
Leonard Santana, Simos Meintanis, Marius Smuts, Joseph Ngatchou Wandjii

New classes of tests for the Weibull distribution using Stein's method in the presence of random right censoring
Elzanie Bothma, James Allison, Jaco Visagie

On a new class of tests for the Pareto distribution using Fourier methods
Lethani Ndwandwe, James Allison, Marius Smuts, Jaco Visagie

On classes of consistent tests for the Pareto distribution based on a characterization involving order statistics
Thobeka Nombebe, James Allison, Joseph Ngatchou--Wandji, Leonard Santana

Saturday, 29 Jun

9:00 - 11:00 Invited 9

Statistics for a wise use of machine learning

Organizer: Stefan Sperlich

Chair: Stefan Sperlich

Room: Grande Auditorio

9:00 Fairness in Machine Learning : how AI creates and amplifies bias in the data.
Jean-Michel Loubes

9:30 Statistical methods for high-throughput experimental data
Tatyana Krivobokova, Gianluca Finocchio, Boris Maryasin

10:00 Trends in Statistical Deep Learning
Johannes Lederer

10:30 The implicit bias phenomenon in deep learning
Holger Rauhut

Nonparametric smoothing and regression for correlated observations

Organizers: Didier A. Girard and Sana Louhichi

Chair: Sana Louhichi

Room: Pequeno Auditorio

9:00 Inference on volatility estimation with missing data: a functional data approach
Mohamed Chaouch, Abdelbasset Djeniah, Amina Angelika Bouchentouf

9:30 Non-parametric statistic to test the equality of the health concentration curve and the 45 degree line
Taoufik Bouezmarni, Abderrahim Taamouti, Mohamed Doukali, Meryem Taleb Bendiab

10:00 On kernel density estimation for dependent data on Riemannian manifolds without boundary
Anne Françoise Yao, Vincent Monsan, Djack Guy-Aude Kouadio

10:30 Hyperparameters selection problems in nonparametric trend estimation: from statistics to machine learning
Sana Louhichi

Advances in directional statistics

Organizer: Thomas Verdebout

Chair: Rosa M. Crujeiras

Room: Sala Polivalente 1.1

9:00 On dependence analysis for circular data
Rosa M. Crujeiras

9:30 Kernel density estimation on the polysphere
Eduardo García-Portugués, Andrea Meilán-Vila

10:00 Conditional density estimation for spherical data
María Alonso-Pena, Paula Saavedra-Nieves

10:30 A novel data-based smoothing parameter for circular kernel density estimation
Jose Ameijeiras-Alonso

Network models and optimal prediction

Organizer: Moulinath Banerjee

Chair: Moulinath Banerjee

Room: Sala Polivalente 1.2

9:00 UTOPIA: Universally Trainable Optimal Prediction Intervals Aggregation
Debarghya Mukherjee, Jiawei Ge, Jiaqing Fan

9:30 A VAE-based Framework for Learning Multi-Level Neural Granger-Causal Connectivity
George Michailidis

10:00 Regression discontinuity design with explained score
Moulinat Banerjee, Debarghya Mukherjee, Ya'acov Ritov

Advances in financial econometrics

Organizer: Genaro Sucarrat

Chair: Genaro Sucarrat

Room: Sala Polivalente 1.3

9:00 Testing the zero-process of intraday financial returns for non-stationary periodicity
Ovidijus Stauskas, Genaro Sucarrat

9:30 Detection of breaks in weak location time series models with quasi-Fisher scores
Christian Francq, Lorenzo Trapani, Jean-Michel Zakoian

10:00 Finite moments testing in a general class of nonlinear time series models
Jean-Michel Zakoian, Christian Francq

10:30 Quantifying Uncertainty under Local Instability: a Dynamic Conformal approach to Electricity Price Forecasting
Alessandro Giovannelli, Tommaso Proietti, Andrea Cerasa, Fany Nan

11:00 - 11:30 Coffee Break

11:30 - 12:30 Keynote Talk 4

Chair: Jeffrey Racine

Room: Grande Auditorio

11:30 Bootstrapping out-of-sample predictability tests with real-time data
Silvia Gonçalves

12:30 - 13:30 Contributed 5

Biostatistics

Chair: M. Dolores Ruiz-Medina

Room: Sala Polivalente 1.1

12:30 Sample Size Planning for the Wilcoxon-Mann-Whitney Test with Dependent Replicates
Erin Sprünken, Frank Konietzschke

12:50 Regression analysis for infectious disease modelling
Chengyuan Lu, Jelle Goeman, Hein Putter, Mar Rodriguez Gironde

13:10 Including time-dependent variables in ROC curve analyses
Áris Fanjul-Hevia, Juan Carlos Pardo-Fernandez, Wenceslao González-Manteiga

Nonparametric econometrics 2

Chair: Christian Francq

Room: Grande Auditorio

12:30 Revisiting Localized Technical Change: A Nonparametric Instrumental Regression Approach with Mixed-Type Endogenous Regressors
Davide Golinelli, Antonio Musolesi

12:50 One-step smoothing splines instrumental regression
Elia Lapenta, Jad Beyhum, Pascal Lavergne

13:10 The boosted Hodrick-Prescott filter, penalized least squares, and Bernstein polynomials
Keith Knight

Nonparametric inference and estimation 2

Chair: Eduardo García-Portugués

Room: Pequeno Auditorio

- 12:30 Evaluating Randomness Assumption: A Novel Graph Theoretic Approach for Linear and Circular Data
Shriya Gehlot, Arnab Kumar Laha
- 12:50 Optimal non-parametric estimation of distribution functions, convergence rates for Fourier inversion theorems and applications
Carlos Martins-Filho
- 13:10 Partial identification for a wide class of event time models in the presence of dependent censoring
Ilias Willems, Ingrid Van Keilegom, Jad Beyhum

13:30 - 14:30 Lunch & Farewell