

Méthodes Mathématiques en Statistiques Modernes 3
Mathematical Methods of Modern Statistics 3
27 June-1 July, 2022

Monday	27 June 2022
9:00 - 9:30	Stein's unbiased risk estimate and an adaptive singular value shrinkage for estimation problem of low-rank matrix mean with unknown covariance matrix <i>Yoshihiko Konno</i>
9:30 - 10:00	Gaussian Whittle Matérn fields on metric graphs <i>Jonas Wallin</i>
10:00 - 10:30	Asymptotic expansion of the expected Minkowski functional for isotropic central limit random fields <i>Satoshi Kuriki</i>
10:30 - 10:50	Coffee break
10:50 - 11:20	Noise-Induced Randomization in Regression Discontinuity Designs <i>Stefan Wager</i>
11:20 - 11:50	Duality of exponential families and large deviations <i>Gérard Letac</i>
11:50 - 12:20	Meta-Learning Representations with Contextual Linear Bandits <i>Karim Lounici</i>
12:30 - 14:00	Lunch
17:00 - 17:20	A Sparsity Inducing Nuclear-Norm Estimator (SpINNER) for Matrix-Variate Regression in Brain Connectivity Analysis <i>Jaroslav Harezlak</i>
17:20 - 17:50	Discrete parametric Bayesian graphical models <i>Jacek Wesolowski</i>
17:50 - 18:20	Coffee break
18:20 - 18:50	Hierarchical Bayes modeling for high-dimensional linear regression <i>Daniel Yekutieli</i>
18:50 - 19:20	On the inference of hidden Markov models with weakly informative observations <i>Matti Vihola</i>
Tuesday	28 June 2022
9:00 - 9:30	Replicability issues in medical research : Science, Math and Politics <i>Yoav Benjamini</i>
9:30 - 10:00	When Will You Become the Best Reviewer of Your Own Papers ? An Owner-Assisted Approach to Mechanism Design <i>Weijie Su</i>
10:00 - 10:30	Random-label models for evaluating highly multi-class classification tasks <i>Yuval Benjamini</i>
10:30 - 11:00	Coffee break
11:00 - 11:30	Multiple testing of partial conjunction null hypotheses <i>Ruth Heller</i>
11:30 - 12:00	Post hoc inference for genomics and neuroimaging <i>Pierre Neuvial</i>
12:00 - 12:20	Online Multiple Testing with Super Uniformity Reward <i>Iqraa Meah</i>
12:30 - 14:00	Lunch
17:00 - 17:30	Implicit Differentiation in Non-Smooth Convex Learning <i>Quentin Bertrand</i>
17:30 - 18:00	A phase transition for finding needles in nonlinear haystacks with LASSO artificial neural networks <i>Sylvain Sardy</i>
18:00 - 18:30	Coffee break
18:30 - 19:00	Graph Neural Networks on Large Random Graphs <i>Samuel Vaïter</i>
19:00 - 19:20	Distribution-free uncertainty quantification (for time series) <i>Margaux Zaffran</i>

Wednesday		29 June 2022
9:00 - 9:30	Controlled Discovery and Localization of Signals via Bayesian Linear Programming (BLiP) <i>Lucas Janson</i>	
9:30 - 10:00	Game-theoretic statistics and safe, anytime-valid inference <i>Aaditya Kumar Ramdas</i>	
10:00 - 10:30	Optimality in statistical inference for permutation invariant problems <i>Asaf Weinstein</i>	
10:30 - 11:00	Coffee break	
11:00 - 11:30	Testing hypotheses on a tree with FDR control for the highest resolution discoveries <i>Marina Bogomolov</i>	
11:30 - 12:00	FDR meets classification with BONuS <i>Etienne Roquain</i>	
12:00 - 12:20	False clustering rate control in mixture models <i>Ariane Marandon-carlhian</i>	
12:30 - 14:00	Lunch	
Thursday		30 June 2022
9:00 - 9:30	The Kick-Kac teleportation algorithm : boost your favorite Markov Chain Monte Carlo using Kac formula <i>Alain Durmus</i>	
9:30 - 10:00	Particle MCMC with Poisson resampling <i>Blazej Miasojedow</i>	
10:00 - 10:30	Integrating Data Correlations into Modern Predictive Modeling <i>Saharon Rosset</i>	
10:30 - 10:50	Coffee break	
10:50 - 11:20	Is interpolation benign in random forest regression ? <i>Claire Boyer</i>	
11:20 - 11:50	A geometrical viewpoint on the benign over fitting property of the minimum ℓ_2 -norm interpolant estimator in linear regression <i>Guillaume Lecué</i>	
11:50 - 12:20	Multiclass high-dimensional classification by sparse linear classifiers <i>Felix Abramovich</i>	
12:30 - 14:00	Lunch	
17:00 - 17:20	Large covariance estimation by penalized log-det minimization <i>Matteo Farnè</i>	
17:20 - 17:50	The geometry of uniqueness and pattern detection in penalized and thresholded estimation <i>Ulrike Schneider</i>	
17:50 - 18:20	Coffee break	
18:20 - 18:40	Model selection in the space of Gaussian models invariant by symmetry <i>Bartosz Kołodziejek</i>	
18:40 - 19:00	Pattern Recovery by SLOPE in orthogonal and asymptotic design <i>Tomasz Skalski</i>	
19:00 - 19:20	Pattern recovery by SLOPE <i>Patrick Tardivel</i>	
Friday		1 July 2022
9:00 - 9:30	Stochastic Online Convex Optimization : Application to probabilistic time series forecasting <i>Olivier Wintenberger</i>	
9:30 - 10:00	Sparse Graphical Modelling via the Sorted L1-Norm <i>Malgorzata Bogdan</i>	
10:00 - 10:30	Efficient and consistent data-driven model selection for time series <i>Jean-Marc Bardet</i>	
10:30 - 11:00	Coffee break	
11:00 - 11:20	Group Lasso Merger For Sparse Prediction With High-dimensional Categorical Data <i>Piotr Pokarowski</i>	
11:20 - 11:40	Model selection with high-dimensional categorical data <i>Wojciech Rejchel</i>	

12:30 - 14:00

Lunch