







## Workshop on

# Mathematical Statistics in the Information Age

Statistical efficiency and computational tractability

Freiburg, March 30 - 31, 2023

#### Thursday, March 30, 2023

09:00 - 09:45	Victor Panaretos (EPFL, Switzerland)
	The extrapolation of correlation
09:45 - 10:15	Coffee break
10:15 - 11:00	Chao Gao (University of Chicago, USA)
	Detection and recovery of sparse signal under correlation
11:00 - 11:45	Alexander Aue (UC Davis, USA)
	Testing high-dimensional general linear hypotheses under a multivariate regression model
	with spiked noise covariance
11:45 - 13:00	Lunch break
13:00 - 13:45	Mathias Drton (Technical University of Munich, Germany)
	Testing many possibly irregular polynomial constraints
13:45 - 14:30	Peter Bühlmann (ETH Zurich, Switzerland)
	Deconfounding and well-specification
14:30 - 15:00	Coffee break
15:00 - 15:45	Kolyan Ray (Imperial College London, UK)
	Bayesian estimation in a multidimensional diffusion model with high frequency data

#### Friday, March 31, 2023

09:00 - 09:45	Yuta Koike (University of Tokyo, Japan)
	High-dimensional bootstrap and asymptotic expansion: A first attempt
09:45 - 10:30	Stefan Richter (University of Heidelberg, Germany)
	Empirical process theory and oracle inequalities for (non-)stationary processes
10:30 - 11:00	Coffee break
11:00 - 11:45	Aurore Delaigle (University of Melbourne, Australia)
	Estimating a prevalence in group testing problems with missing values
11:45 - 12:30	Ingo Steinwart (University of Stuttart, Germany)
	Density-based cluster analysis

#### The workshop is sponsored by the DFG Research Unit 5381

https://for5381.uni-freiburg.de/

### Venue

University of Freiburg, Natural Sciences Campus ("Institutsviertel") Lecture Hall at the Crystallography, Hermann-Herder-Str. 5, 79104 Freiburg i. Br., Germany

#### Registration

The workshop has no fees. Registration is possible by e-mail to sekretariat@stochastik.uni-freiburg.de, but not required.

https://for5381.uni-freiburg.de/en/talks-and-news/

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