

**SCHEDULE** version v.05  
November 11, 2018

**LOCATION: AUDITORIUM 0215 (Between Buildings 4 and 5)**

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**November 12 Monday**

7:50	Walk from lobby of KAUST Inn #1 with post-doc Carolina Euan	
8:00 – 8:50	Coffee and pastries	
8:50 - 9:00	Getting organized	Hernando Ombao, Workshop Chair
9:00 - 9:15	Statistics Welcome	Marc Genton, Statistics Program Chair
9:15 – 9:30	President's Remarks	President Tony Chan
9:30 – 9:55	Alumni Address	Mohammed Alsobay, MS 2017

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Session 1 Chair: Raphael Huser, KAUST

10:00 – 10:30	Peter Richtarik, KAUST <i>Stochastic Quasi-Gradient Methods: Variance Reduction via Jacobian Sketching</i>
10:30 – 10:45	Coffee Break
10:45 – 11:15	Mikael Kuusela, Carnegie Mellon University <i>Locally stationary spatio-temporal interpolation of Argo profiling float data</i>
11:15 – 11:45	Julie Bessac, Argonne National Laboratory <i>Stochastic parameterization of subgrid-scale velocity enhancement of sea surface fluxes</i>
11:45 – 12:00	Discussion
12:00 – 1:30	Lunch break

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Session 2 Chair: Marc Genton, KAUST

1:30 – 2:00	Moo Chung, University of Wisconsin
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*Rapid Acceleration of the Permutation Test via Slow Random Walks in the Permutation Group*

- 2:00 – 2:30 Patrick Flandrin, École Normale Supérieure de Lyon, France  
*Statistics of spectrogram zeros and a new approach to time-frequency filtering*  
2:30-3:00
- 2:30 - 3:00 Coffee break
- 3:00-3:30 Holger Rootzen, Chalmers University, Sweden  
*Risk estimation using the multivariate generalized Pareto distribution*
- 3:30– 4:00 Virgilio Gomez, Department of Mathematics, Universidad de Castilla-La Mancha, Spain  
  
*Approximate Bayesian inference for multivariate point pattern analysis in disease mapping*
- 4:00 – 4:30 Discussion
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**November 13 Tuesday**

- 8:00 – 8:50 Coffee and pastries
- Session 3 Chair: Hernando Ombao, KAUST
- 9:00 – 9:30 Xin Gao, KAUST  
*Understanding polyadenylation through machine learning techniques*
- 9:30 – 10:00 Anqi Qiu, National University of Singapore  
*A Set-Based Mixed Effect Model for Gene-Environment Interaction and its Application to Neuroimaging Phenotypes*
- 10:00 – 10:30 Coffee Break
- 10:30- 11:00 Simone Vantini, Politecnico di Milano  
*Local Hypothesis Testing for Functional Data: Extending Family-wise Error Rate and False Discovery Rate to the Functional Framework.*

11:00 – 11:30	Ta-Hsin Li, IBM <i>Experiments with some interpretable neural network models for a customer classification problem in financial industry</i>
11:30 – 12:00	Discussion
12:00 – 1:30	Lunch break

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<u>Session 4</u>	Chair: Haavard Rue, KAUST
1:30 – 2:00	Zhou Zhou, University of Toronto <i>Spectral Inference under Complex Temporal Dynamics</i>
2:00 – 2:30	Martin Lindquist, Johns Hopkins University <i>High-dimensional Multivariate Mediation with Application to Neuroimaging Data</i>
2:30 – 3:00	Coffee break
3:00 - 3:30	Tareq AlNaffouri, KAUST <i>Regularized Discriminant Analysis: A Large Dimensional Study</i>
3:30 – 4:00	Yasumasa Matsuda, Tohoku University <i>Spatial modeling of volatility matrices for high-dimensional financial time series</i>
4:00 – 4:30	Discussion

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### November 14 Wednesday

8:00 – 8:50	Coffee and pastries
<u>Session 5</u>	Chair: Ying Sun, KAUST
9:00 – 9:30	Yoshihiro Yajima*, Tohoku University <i>Gaussian semiparametric estimation for intrinsic stationary random fields</i> *NOTE: talk to be delivered by Yasumasa Matsuda, Tohoku University
9:30 – 10:00	Tingjin Chu, University of Melbourne <i>Locally Stationary Spatio-temporal Process and Its Inference</i>
10:00 – 10:30	Coffee Break

10:30- 11:00 John Einmahl, Tilburg University, Netherlands  
*Limits to human life span through extreme value theory*

11:00 - 11:30 Zhengyuan Zhu, Iowa State University  
*The Use of Machine Learning Methods to improve the US National Resources Inventory Survey*

11:30 – 11:45 Discussion

11:45 – 12:45 Lunch break

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12:45 – 1:45 Visit to the Data Visualization Lab  
Meeting Place: Library Coffee

2:00 – 3:30 Poster Session #1 AUDITORIUM 0215  
Note: poster set-up at 1 pm

4:00 – 5:30 Poster Session #2 AUDITORIUM 0215  
Note: poster set-up at 3:30 pm

6:15 – 8:45 Conference Dinner  
@ AL MARS  
Stroll or take the blue bus

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### November 15 Thursday

8:25 Walk from KAUST Inn 2 to the harbor

9:00 - 1:00 Snorkeling