

HORAIRE / *PROGRAM*

ATELIER SUR

LES STATISTIQUES COMBINATOIRES

30 avril au 4 mai 2018

WORKSHOP ON

COMBINATORIAL STATISTICS

April 30–May 4, 2018

CONFÉRENCES : salle 6254 (Pavillon André-Aisenstadt)

PAUSES-CAFÉ : salle 6245 (Pavillon André-Aisenstadt)

LECTURES: *Room 6254 (Pavillon André-Aisenstadt)*

COFFEE BREAKS: *Room 6245 (Pavillon André-Aisenstadt)*

Le lundi 30 avril 2018 / Monday, April 30, 2018

09:00–09:30 Inscription (salle 5345) et café-croissants (salle 6245)
Registration (Room 5345) and Coffee & Croissants (Room 6245)

09:30–10:30 Laurent Massoulié (École Polytechnique)
“Rapid mixing of local graph dynamics”

10:30–11:00 Pause-café / *Coffee break*

11:00–12:00 Rachel A. Ward (University of Texas)
“Learning the learning rate in stochastic gradient descent”

12:00–14:00 Pause-déjeuner / *Lunch break*

14:00–15:00 Yuval Peres (Microsoft Research)
“Minicourse on statistical reconstruction problems: Reconstruction on trees and unpredictable paths”

15:00–15:30 Pause-café / *Coffee break*

15:30–16:30 Andrea Montanari (Stanford University)
“A mean field view of the landscape of two-layers neural networks”

Le mardi 1 mai 2018 / Tuesday, May 1, 2018

09:00–09:30 Café croissants / *Coffee & Croissants*

09:30–10:30 Constantinos Daskalakis (MIT)
“High-dimensional distribution testing: Social networks and GANs”

10:30–11:00 Pause-café / *Coffee break*

11:00–12:00 Nicolas Broutin (Sorbonne Université)
“Limits of inhomogeneous random graphs”

12:00–14:00 Pause-déjeuner / *Lunch break*

14:00–15:00 Yuval Peres (Microsoft Research)
“Minicourse on statistical reconstruction problems: Detecting the trail of a random walk, and a hidden clique in a random graph”

15:00–15:30 Pause-café / *Coffee break*

15:30–16:30 Philippe Rigollet (MIT)
“Learning determinantal point processes”

Le mercredi 2 mai 2018 / Wednesday, May 2, 2018

09:00–09:30 Café croissants / *Coffee & Croissants*

09:30–10:30 Emmanuel Abbe (Princeton University)
“Broadcasting and synchronizing bits on graphs”

10:30–11:00 Pause-café / *Coffee break*

11:00–12:00 J. Michael Steele (University of Pennsylvania)
“The Bohnenblust–Spitzer algorithm and its applications”

12:00–13:30 Pause-déjeuner / *Lunch break*

13:30–14:30 Yuval Peres (Microsoft Research)
“Minicourse on statistical reconstruction problems: Detecting a missing point in a perturbed lattice”

14:30–15:00 Pause-café / *Coffee break*

15:00–16:00 Nike Sun (University of California, Berkeley)

16:30–17:30 Alex Wein (Massachusetts Institute of Technology)
“Estimation in the presence of group actions”

Le jeudi 3 mai 2018 / Thursday, May 3, 2018

09:00–09:30 Café croissants / *Coffee & Croissants*

09:30–10:30 Roberto Imbuzeiro Oliveira (IMPA)
“Estimating graph parameters via multiple random walks”

10:30–11:00 Pause-café / *Coffee break*

11:00–12:00 Yihong Wu (Yale University)
“Recovering a hidden hamiltonian cycle via linear programming”

12:00–13:30 Pause-déjeuner / *Lunch break*

13:30–14:30 Yuval Peres (Microsoft Research)
“Minicourse on statistical reconstruction problems: Trace reconstruction for the deletion channel”

14:30–15:00 Pause-café / *Coffee break*

15:00–16:00 David Gamarnik (MIT)
“Algorithms and algorithmic obstacles in high-dimensional regression”

16:30–17:30 Miklós Z. Rácz (Princeton University)
“High-dimensional random geometric graphs”

Le vendredi 4 mai 2018 / *Friday, May 4, 2018*

09:00–09:30 Café croissants / *Coffee & Croissants*

09:30–10:30 Po-Ling Loh (University of Wisconsin-Madison)
“Two inference problems for network contagion”

10:30–11:00 Pause-café / *Coffee break*

11:00–12:00 Risi Kondor (The University of Chicago)

12:00–14:00 Pause-déjeuner / *Lunch break*

14:00–15:00 Jian Ding (The Wharton School, University of Pennsylvania)
“Cycles and paths with minimum average weight”

15:00–15:30 Pause-café / *Coffee break*

15:30–16:30 Quentin Berthet (University of Cambridge)
“Exact recovery in the Ising blockmodel”