

LPSM Kickoff Conference, Paris, June 18-20, 2018

Monday, June 18, 2018. Sorbonne Université. Jussieu Campus. Auditorium (Tour 54-55)

- 09:30-10:00 Welcome Coffee
10:00-10:30 Welcome address
10:30-11:10 Laurent Mazliak (LPSM)
The road to unity
11:15-12:00 Yuval Peres (Microsoft)
Probability and Statistics: Gravitational allocation to uniform points and Trace reconstruction for the deletion channel
14:00-14:45 Christina Goldschmidt (Oxford)
Voronoi cells in the Brownian continuum random tree
14:45-15:15 Pause
15:15-16:00 Susan Holmes (Stanford)
Statistical challenges from the study of the human microbiome
16:00-16:45 Anton Thalmaier (Luxemburg)
Characterization of Ricci curvature and Ricci flow by Brownian motion

Tuesday, June 19, 2018. Université Paris-Diderot. Campus des Grands Moulins. Amphithéâtre Buffon

- 08:30-09:00 Welcome Coffee
09:00-09:45 Olivier Bousquet (Google)
Deep Learning and Generalization
09:45-10:30 Amir Dembo (Stanford)
Averaging principle and shape theorem for growth with memory
10:30-11:00 Pause
11:00-11:45 Martin Hairer (Imperial College)
A new universality class for 1+1 dimensional dynamic
11:45-12:30 Lai-Sang Young (NYU)
Comparing chaotic and random dynamical systems
14:00-14:45 Philip Protter (Columbia)
Semimartingale decompositions under a continuous expansion of the filtration
14:45-15:15 Pause
15:15-16:00 Sara van de Geer (ETH)
Some concentration results for the LASSO
16:00-16:45 Sebastian Roch (Wisconsin-Madison)
From genomes to evolutionary trees and beyond

Wednesday, June 20, 2018. Sorbonne Université. Campus Jussieu. Auditorium (Tour 54-55)

- 08:30-09:00 Welcome Coffee
09:00-09:45 Perla Sousi (Cambridge)
Capacity of random walk and Wiener sausage in 4 dimensions
09:45-10:30 Chris Rogers (Cambridge)
Economics: science or sudoku?
10:30-11:00 Pause
11:00-11:45 Bin Yu (UC Berkeley)
Three principles of data science, predictability, computability, and stability
14:00-14:45 Bernard Derrida (Collège de France)
Renormalization and disorder: a simple toy model
14:45-15:30 Conclusion