

Doctoral Workshop on Decision Mathematics and Statistics

Thursday, 4th June 2026

Organized by the Department of Mathematics and Statistics

9:25 – 9:30 Introduction by Eric Gautier

9:30 – 11:00 Session 1 - Chairwoman:

- 9:30 – 10:00 Colombe Becquart**
"Revisiting and enhancing the univariate folding test of unimodality"
- 10:00 – 10:30 Joseph Hachem**
"A heterogeneous extreme value theory for multivariate heavy-tailed data"
- 10:30 - 11:00 Margot Ferré**
"Estimation of Sobol' indices using stochastic algorithms"
- 11:00 - 11:30 Break**

11:30 - 12:30 Session 2 - Chairman: Jérôme Renault

- 11:30 - 12:00 Melissa Gonzalez Garcia**
"1-player percolation games"
- 12:00 - 12:30 Léo Portales**
"Statistical estimation of Monge transport maps via Brenier potentials"
- 12:30 - 13:30 Lunch break**

13:30 - 14:30 Session 3 - Chairman:

- 13:30 - 14:00 Claire Lebrun**
"Interconnected narratives: Network measures of systemic risk from written news"
- 14:00 - 14:30 Camille Mondon**
"Identifying the discriminant subspace using Invariant Coordinate Selection: a general criterion based on group proportions"
- 14:30 - 15:00 Break**

15:00 - 16:30 Session 4 - Chairman:

- 15:00 - 15:30 Louison Aubert**
"Controlled swarm gradient dynamics for non-convex optimization"
- 15:30 - 16:00 Solal Martin**
"Lyapunov functions in optimization: from verification to construction"
- 16:00 - 16:30 Fares El Khoury**
"TBC"

16:30 Conclusion by Stéphane Villeneuve



30 mns are devoted to each presentation: 25 mns for the presentation and 5 mns for the discussion with the floor