

# Doctoral Workshop on Decision Mathematics and Statistics

Thursday, 19th June 2025

Organized by the Department of Mathematics and Statistics

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**09:55 – 10:00 Introduction by Eric Gautier**

**10:00 – 11:00 Session 1 - Chairwoman: Anne Ruiz-Gazen**

**10:00 – 10:30 Colombe Becquart**

"Invariant Coordinate Selection and Fisher discriminant subspace"

**10:30 - 11:00 Joseph Hachem**

"Extreme value inference for heterogeneous heavy-tailed data"

**11:00 - 11:30 Break**

**11:30 - 12:30 Session 2 - Chairman: Bruno Ziliotto**

**11:30 - 12:00 Melissa González**

"Percolation Games: Zero-sum stochastic games on  $Z^d$ "

**12:00 - 12:30 Thăng Lê Nhật**

"Forward algorithm for a class of optimal stopping games"

**12:30 - 13:30 Lunch break**

**13:30 - 14:30 Session 3 - Chairman: Jean-Paul Décamps**

**13:30 - 14:00 Camille Mondon**

"ICS for complex data with application to outlier detection for density data"

**14:00 - 14:30 Léo Portales**

"On the sample complexity of fixed support Wasserstein barycenters"

**14:30 - 15:00 Break**

**15:00 - 16:30 Session 4 - Chairman: Edouard Pauwels**

**15:00 - 15:30 Quoc-Tung Le**

"Bilevel gradient methods and Morse parametric qualification"

**15:30 - 16:00 Bilel Bensaid**

"Complexities of Armijo-like algorithms in Deep Learning context"

**16:00 - 16:30 Dmitry Kamzolov**

"OPTAM: Global Superlinear Convergence of High-order Methods"

**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*