



# Doctoral Workshop on Decision Mathematics and Statistics

# Tuesday, 6th July 2021

Organizing Committee: Abdelaati Daouia, Sébastien Gadat, Christine Thomas-Agnan

Conference Secretariat: Aline Soulié, Corinne Vella

20 mns are devoted to each presentation: 15 mns for the presentation and 5 mns for the discussion with the floor

### 09:30 - 09:35 Introduction by Sébastien Gadat

# 09:35 – 10:35 Session 1: Statistics, Deep learning, Games - Chairwoman: Anne Ruiz-Gazen 09:35 – 09:55 Yasser Abbas "Improving heavy-tailed expectile regression" 09:55 - 10:15 Camille Castera "Stochastic algorithms exploiting second-order information for deep learning" 10:15 - 10:35 Tommaso Cesari "A Regret Analysis of Bilateral Trade" 10:35 - 11:00 Break

## 11:00 - 12:00 Session2: Games, Statistics, Optimization - Chairman: Jérôme Bolte

11:00 - 11:20	Maurizio D'Andrea "No-regret strategies and coordination"
11:20 - 11:40	Lukas Dargel "Revisiting Estimation Methods for Spatial Econometric Interaction Models"
11:40 -12:00	Radu-Alexandru Dragomir "Bregman gradient methods in optimization"
12:00 - 14:00	Lunch break





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14:00 - 15:00	Session 3: Deep learning, Statistics, Optimization - Chairwoman: Bénédicte Alziary
14:00 - 14:20	Ngoc Tâm Lê "Convergence of online deep learning with automatic differentiation"
14:20 - 14:40	Estelle Medous "Uses and comparison of General Weight Share Method and double General Weight Share Method is surveys"
14:40 - 15:00	Étienne de Montbrun "Wasserstein Generative Adversarial Networks and/or 1-Lipschitz Neural Network"
15:00 - 15:20	Break
15:20 - 16:40	Session 4: Games, Optimization, Machine learning, Statistics - Chairman: Jérôme Renault
15:20 - 15:40	Dana Pizarro "On a Competitive Selection Problem with Recall"
15:40 - 16:00	Rodolfo Rios-Zertuche "Long term dynamics of small step optimization methods"
16:00 - 16:20	Tony Silveti-Falls "Nonsmooth implicit differentiation for machine learning"
16:20 - 16:40	Antoine Usseglio Carleve "Extreme expectile regression from dependent data"

16:40 - 16:45 Conclusion by Christine Thomas-Agnan