

# Doctoral Workshop on Decision Mathematics and Statistics

Thursday, 6th June 2024

**Organizing Committee:** Jérôme Bolte, Abdelaati Daouia, Sébastien Gadat, Stéphane Villeneuve

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**09:55 – 10:00 Introduction**

**10:00 – 11:00 Session 1 - Chairman: Adrien Blanchet**

**10:00 – 10:30 Anh Dung Le**  
"Well-posedness of McKean-Vlasov SDEs with density-dependent drift"

**10:30 - 11:00 Léo Portales**  
"On the sequential convergence of Lloyd's algorithms"

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

**11:30 - 12:30 Session 2 - Chairman: Julien Chhor**

**11:30 - 12:00 Joseph Hachem**  
"Extreme value estimation for heterogeneous heavy-tailed data"

**12:00 - 12:30 Clément Lalanne**  
"Private learning from users' data"

**12:30 - 14:00 Lunch break**

**14:00 - 15:00 Session 3 - Chairman: Pascal Bégout**

**14:00 - 14:30 Marelys Crespo Navas**  
"Discretisation of Langevin Diffusion in a weak log-concave case"

**14:30 - 15:00 Le Quoc-Tung**  
"On the geometric and computational complexity of polynomial bilevel optimization"

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

**15:30 - 16:30 Session 4 - Chairman: Jérôme Renault**

**15:30 - 16:00 Ashot Aleksian**  
"Metastable behavior of measure-dependent stochastic processes"

**16:00 - 16:30 Jinghua Duan**  
" To be completed "

**16:30 Conclusion**