

# Workshop "Computational methods for probability distributions on manifolds" / Schedule

## May 11

13h30 - Introduction - Welcome

13h45 - Talk 1 Guillaume Pouliot - MCMC on Manifolds in Economics

14h30 - Talk 2 Alessandro Barp - Kernel and Stein discrepancies between distributions, à la Schwartz

15h15 - Coffee break ☕

15h45 - Talk 3 Robin Ryder - Coupling MCMC on manifolds

16h30 - Talk 4 Chang-Han Rhee - Experimental Design on Manifolds

17h15 - Lightning talks ⚡

17h30 : 19h00 - Reception 🍷🥗

## May 12

9h00 - Talk 5 Gilles Vilmart - High-order sampling of the invariant distribution of ergodic stochastic dynamics: preconditioning and postprocessing

9h45 - Talk 6 Paul Breiding - Sampling from or near nonlinear algebraic varieties

10h30 - Coffee break ☕

11h00 - Talk 7 Nick Whiteley - Statistical exploration of the Manifold Hypothesis

11h45 - Talk 8 Judith Rousseau - Denoising diffusion Models under the Manifold Hypothesis : A dimension free convergence rate

12h30 : 14h - Lunch 🍽️

14h00 - Talk 9 Manon Michel - Convergence of non-reversible Markov processes via lifting and Flow Poincaré inequality

14h45 - Talk 10 Tobias Grafke - Sampling Conditioned Diffusions via Pathspace Projected Monte Carlo

15h30 - Coffee break ☕

16h00 - Talk 11 Miranda Holmes-Cerfon - Simulating sticky Brownian motion  
16h45 - Talk 12 Agnès Desolneux - Distances "à la Gromov-Wasserstein" for Gaussian Mixture Models

### May 13

9h00 - Talk 13 Giovanni Samaey - Multilevel interacting particle methods for sampling Bayesian inverse problems

9h45 - Talk 14 Marylou Gabrié - Revisiting enhanced sampling driven by collective variables using generative models

10h30 - Coffee break ☕

11h00 - Talk 15 Chris Walker - A Bayesian Perspective on the Maximum Score Problem

11h45 - Talk 16 Lulu Kang - Active Learning for Manifold Gaussian Process Regression