

## Assisting sampling with generative models

**Abstract :** Deep generative models parametrize very flexible families of distributions able to fit complicated datasets of images or text. These models provide independent samples from complex high-distributions at negligible costs. On the other hand, sampling exactly a target distribution, such as a Bayesian posterior or the Boltzmann distribution of a physical system, is typically challenging : either because of dimensionality, multi-modality, ill-conditioning or a combination of the previous. In this talk, I will discuss a recent line of work using generative models to accelerate sampling.