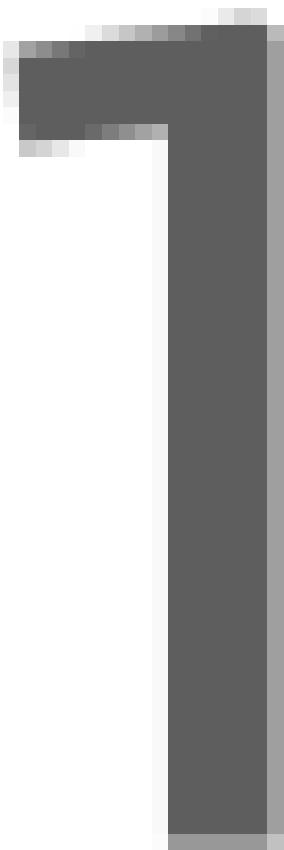
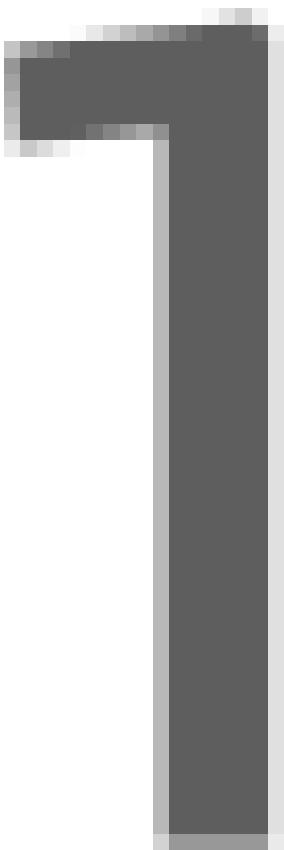


Siddhartha Mishra (MIT/Alfi) Summer School

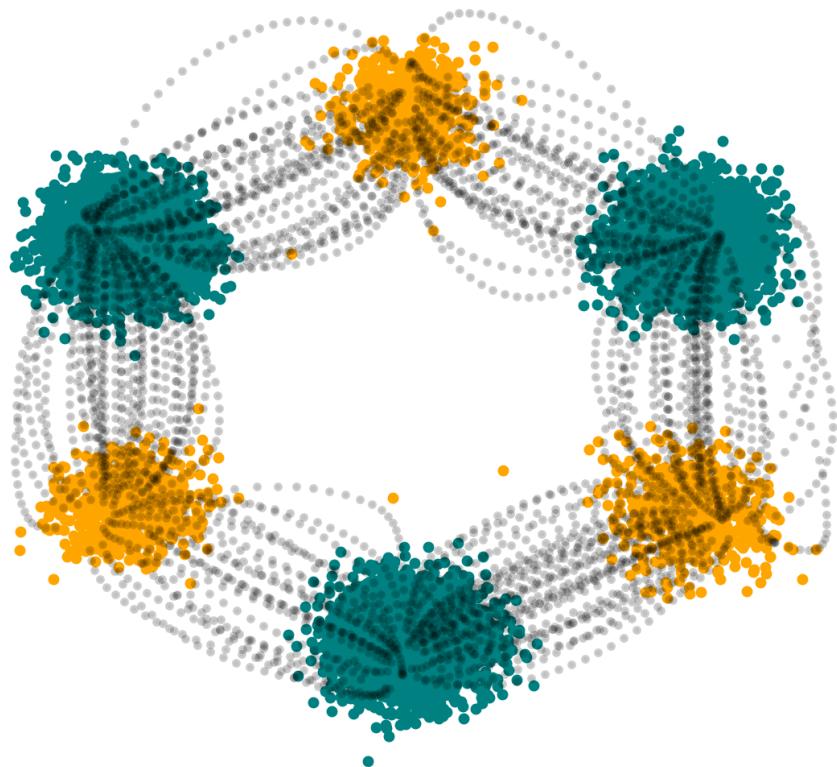




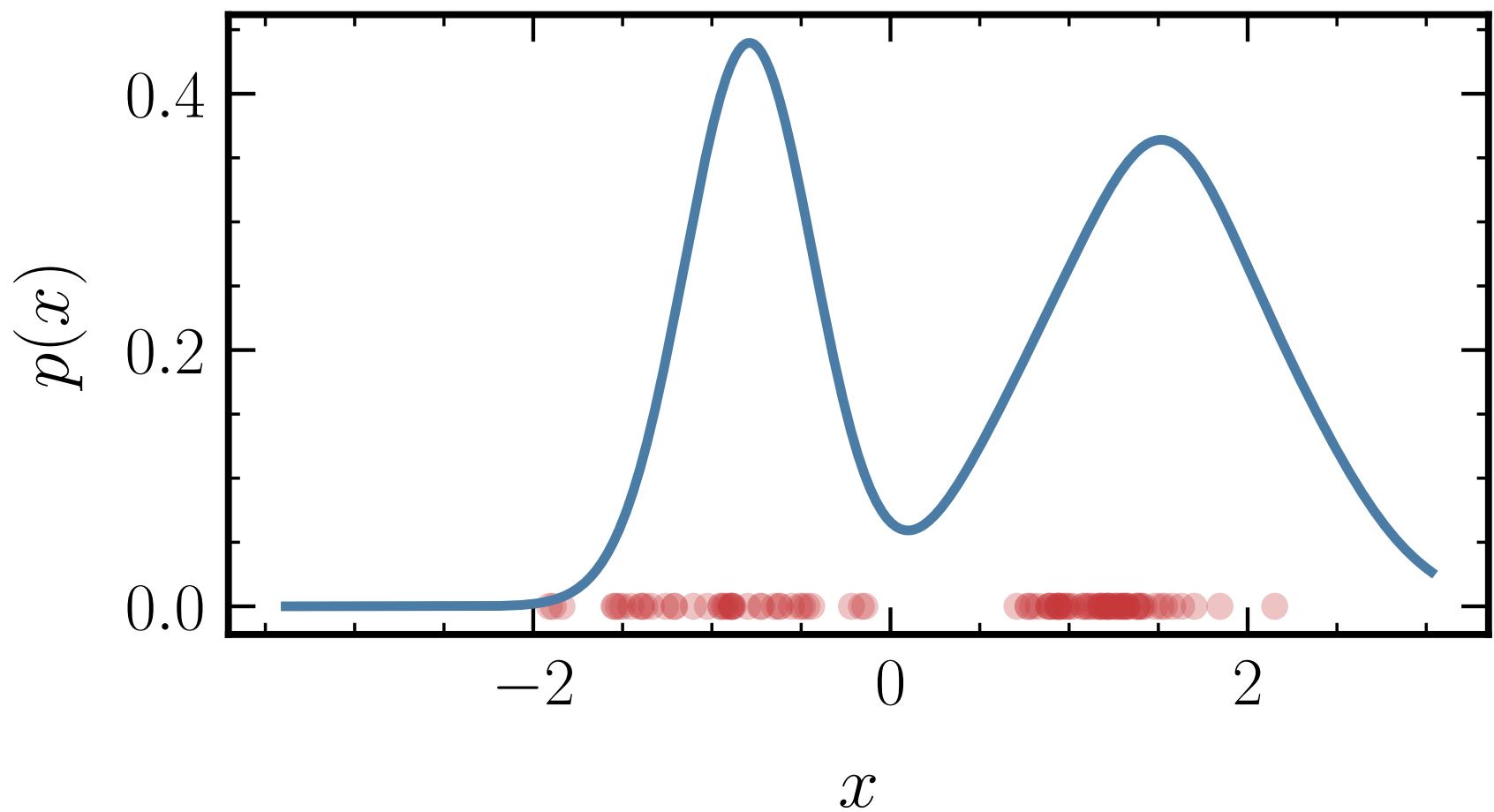
(Some) ways of training deep generative models

sovereign state

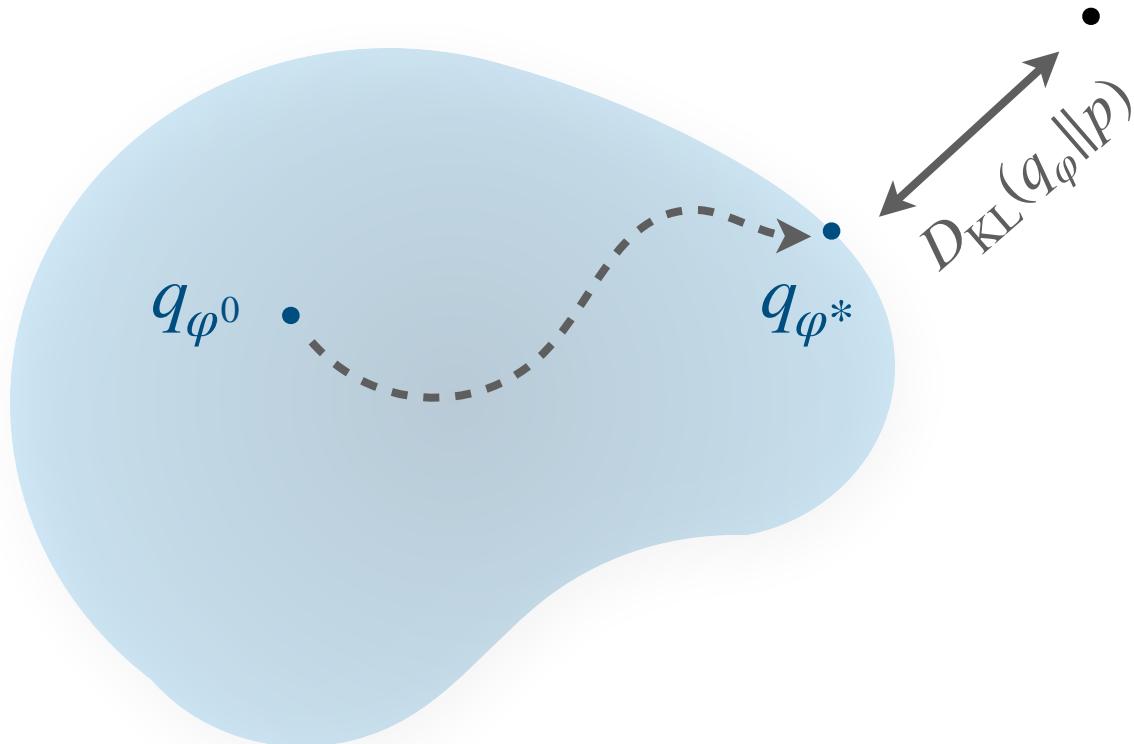
Optimal transport

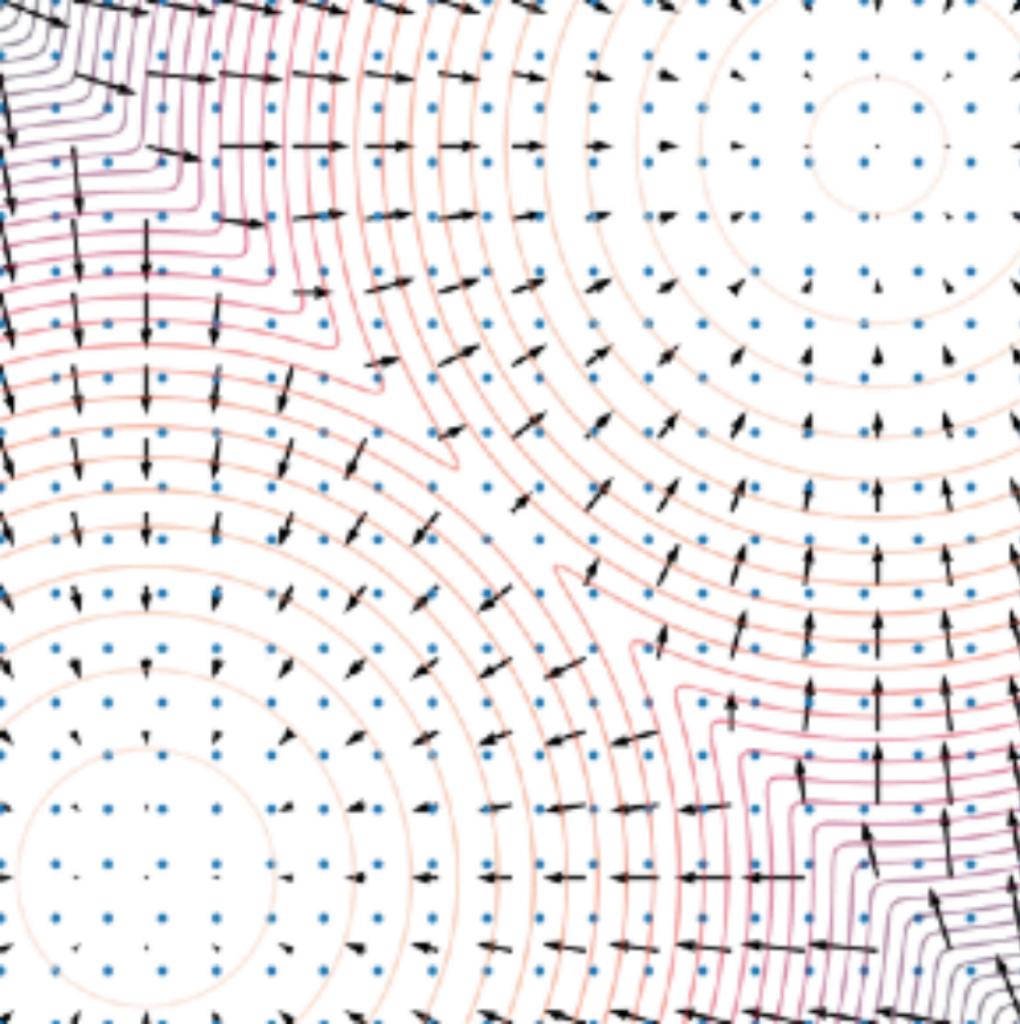


Maximum-likelihood

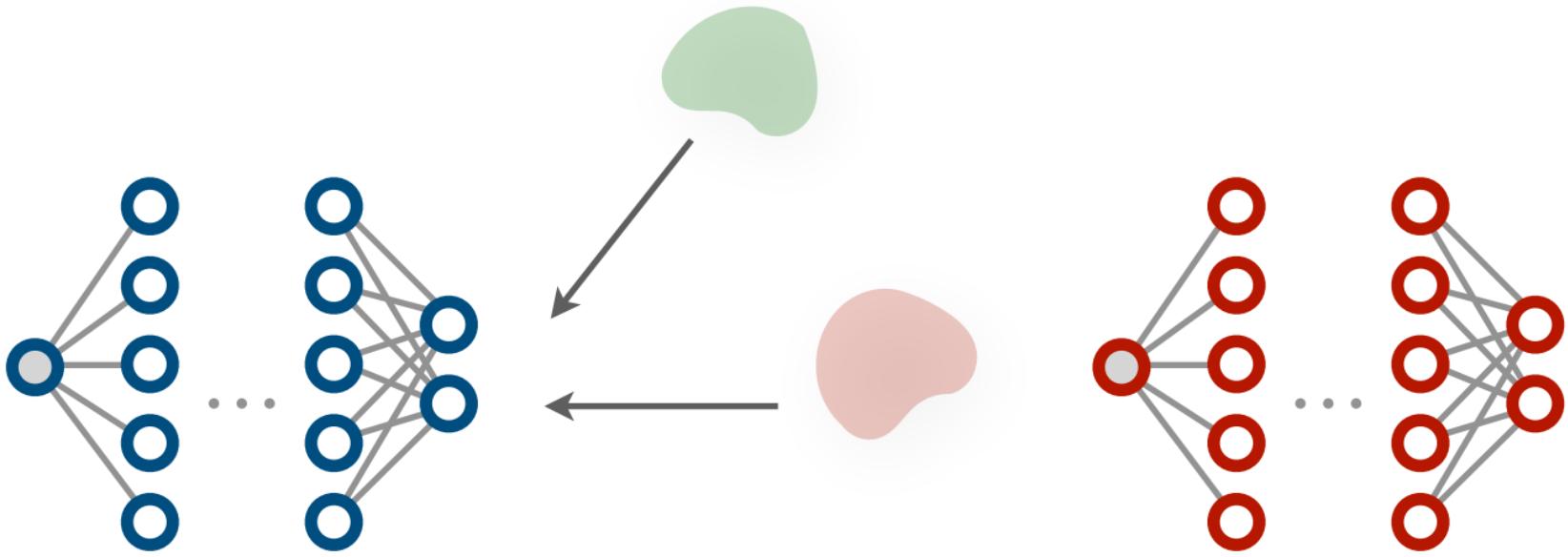


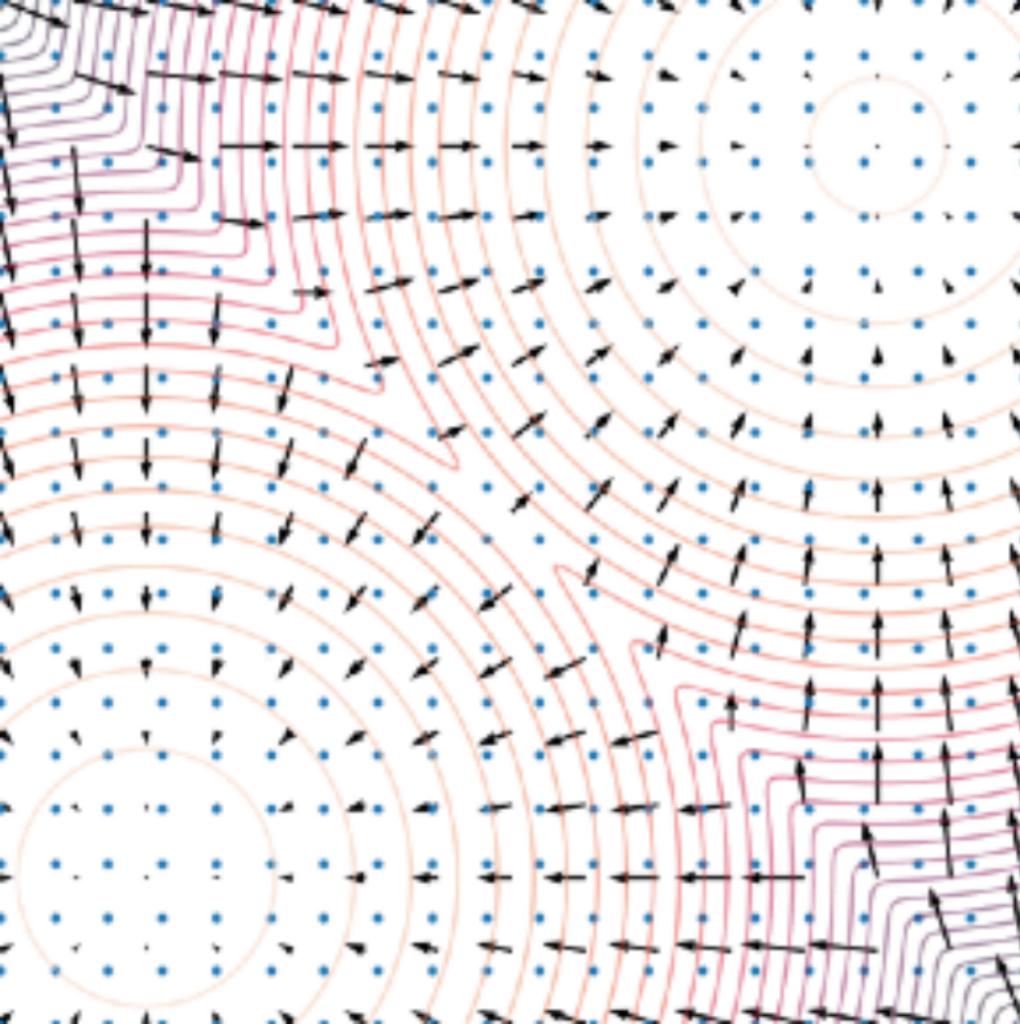
Optimizing a bound on the likelihood

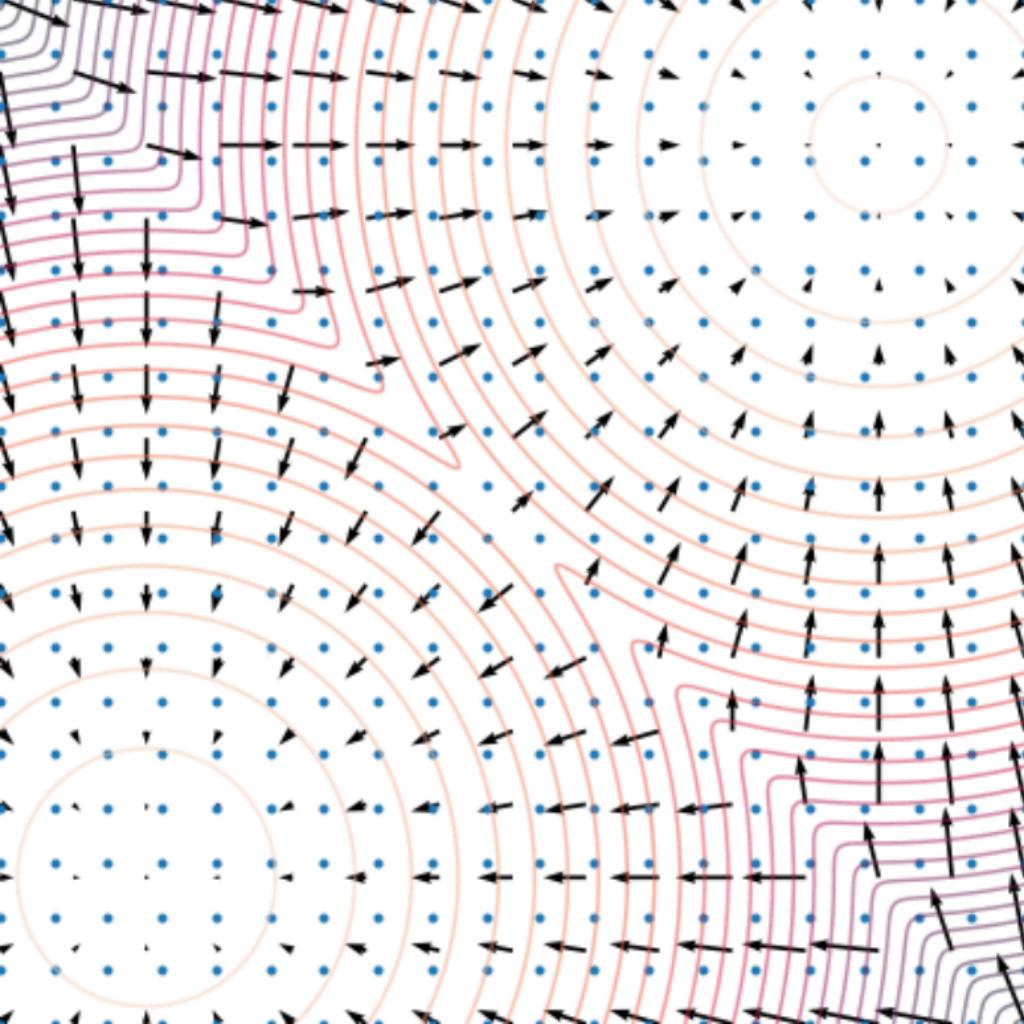




Adversarial training

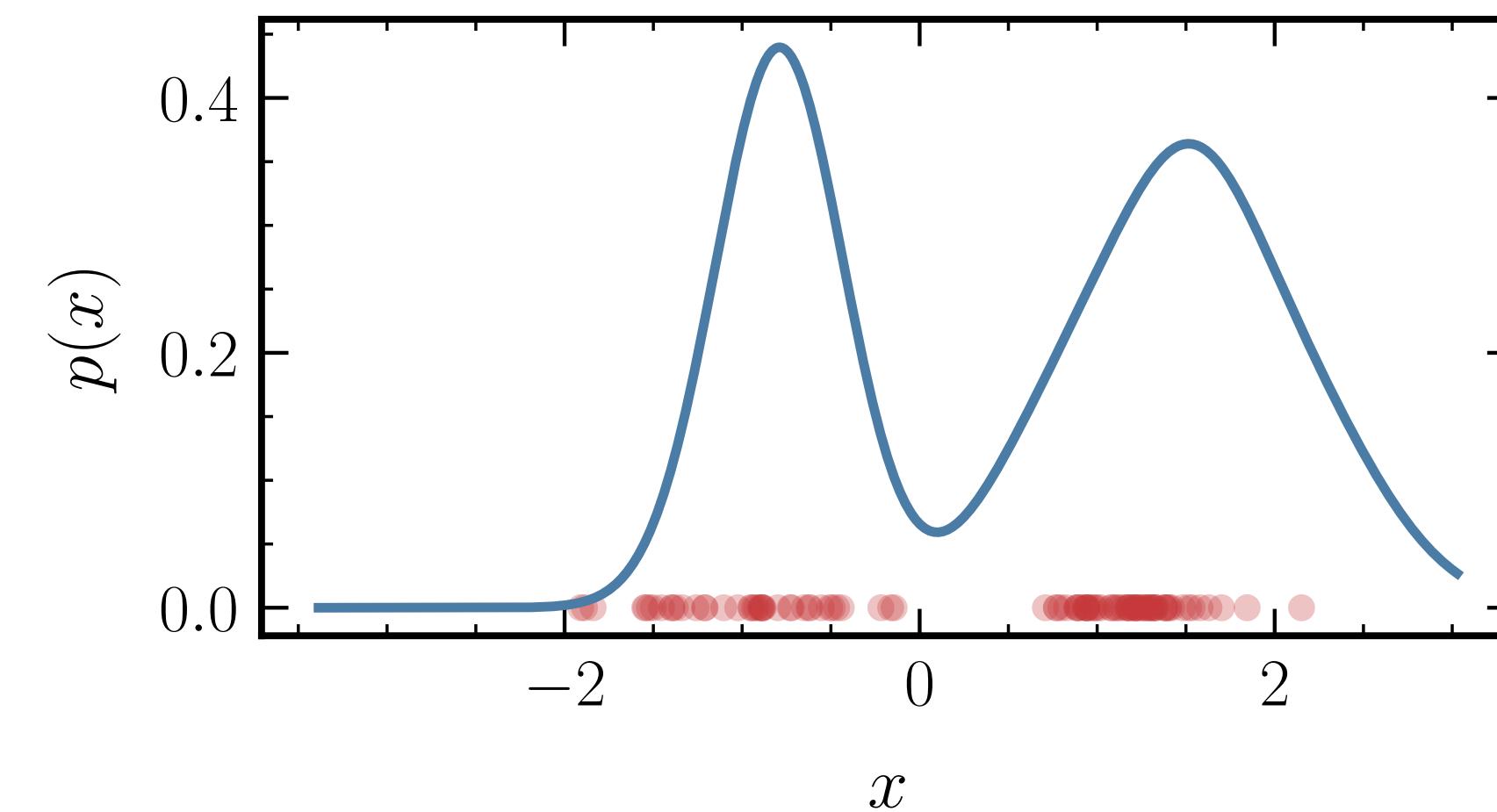




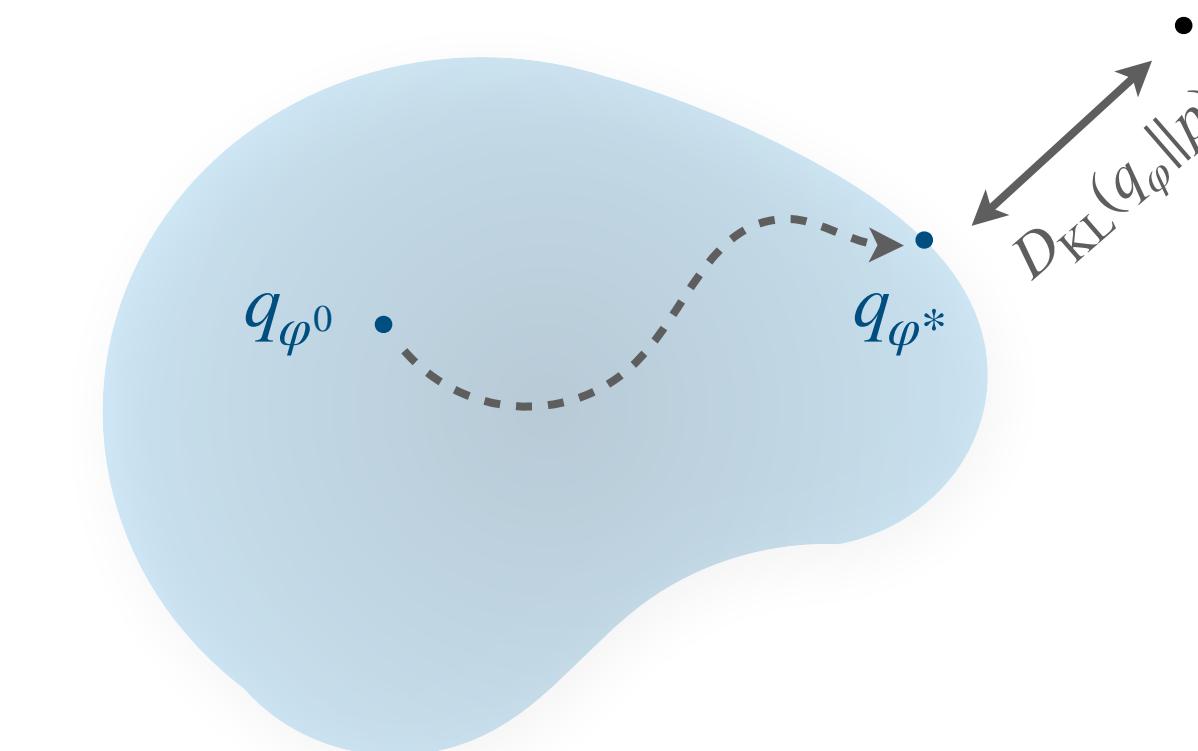


(Some) Ways of training deep generative models

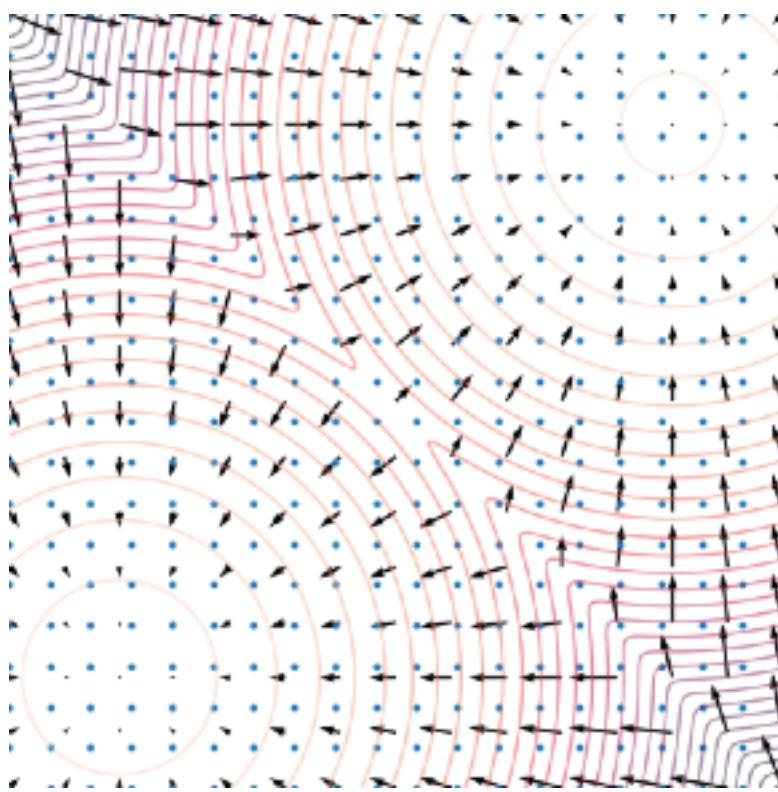
Maximum-likelihood



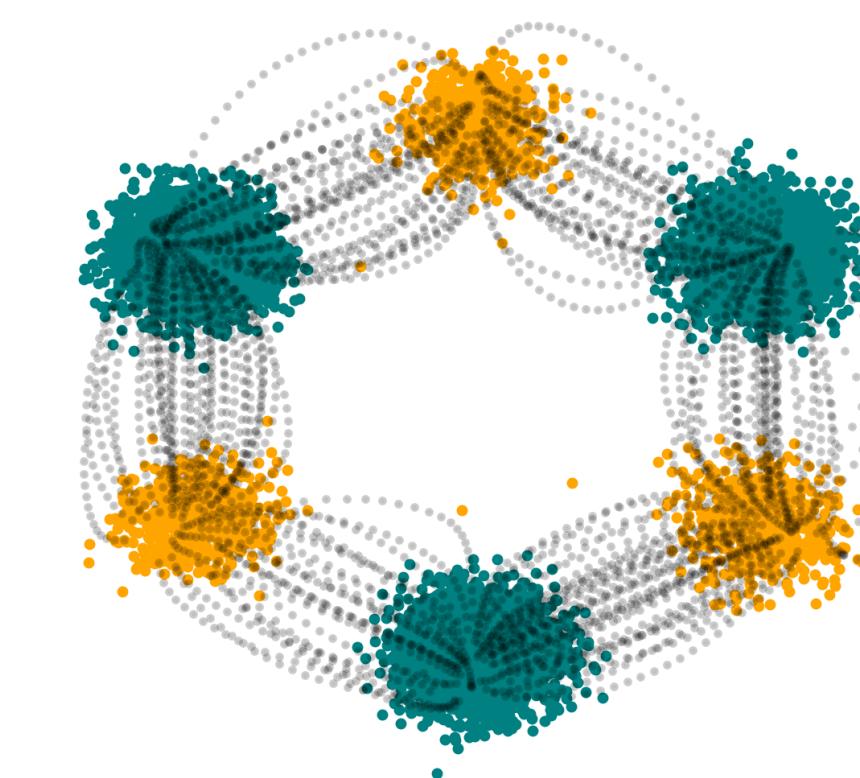
Optimizing a bound on the likelihood



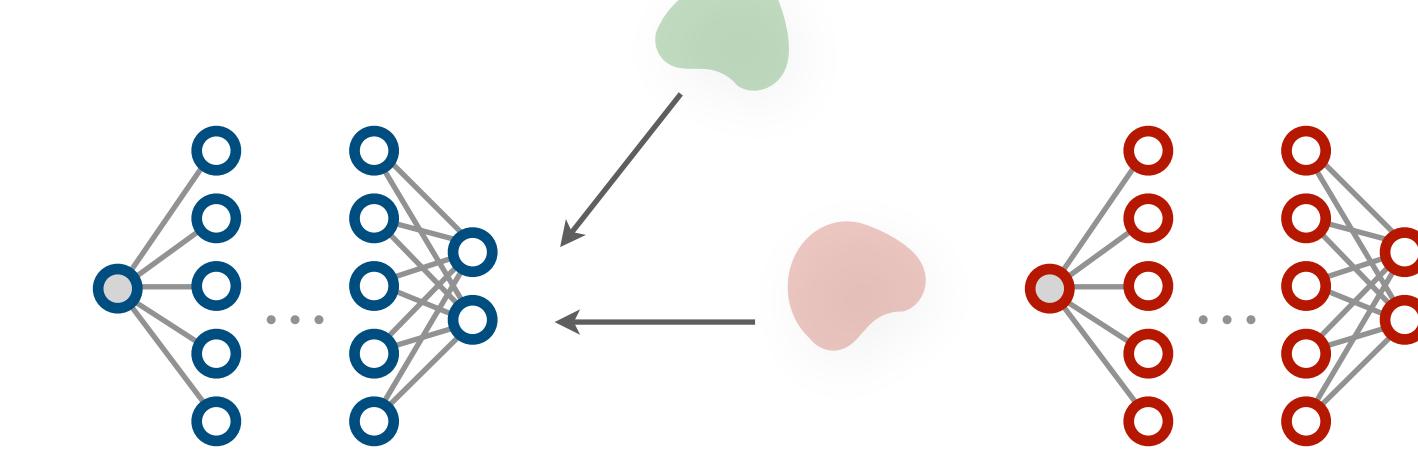
Score-matching



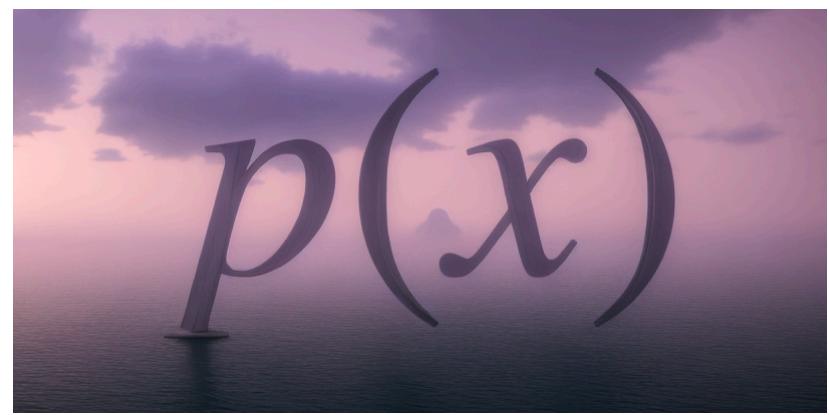
Optimal transport



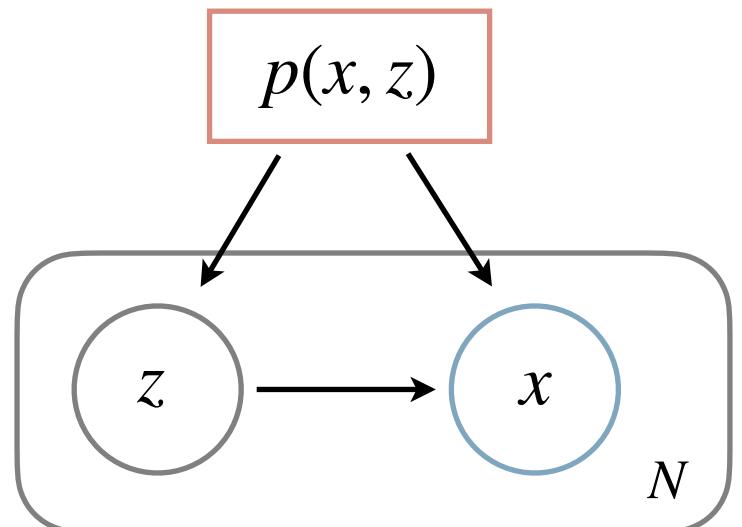
Adversarial training



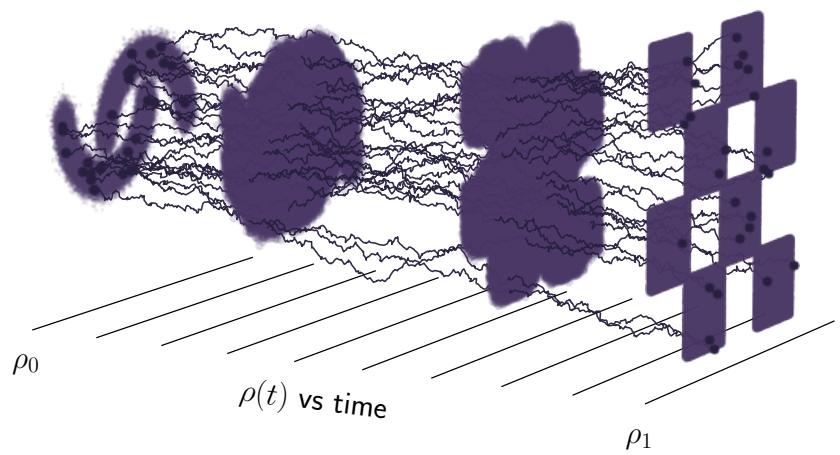
Outline



Why (deep) generative modeling?
What is it, and what can it do for you?



Variational auto encoders
Latent-variable modeling, and compression is all you need



Diffusion models
Models based on iterative refinement



Normalizing flows (and some other models)
Invertible transformations