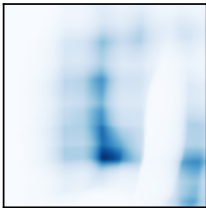
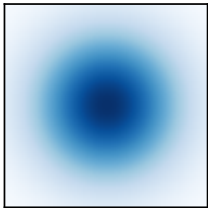
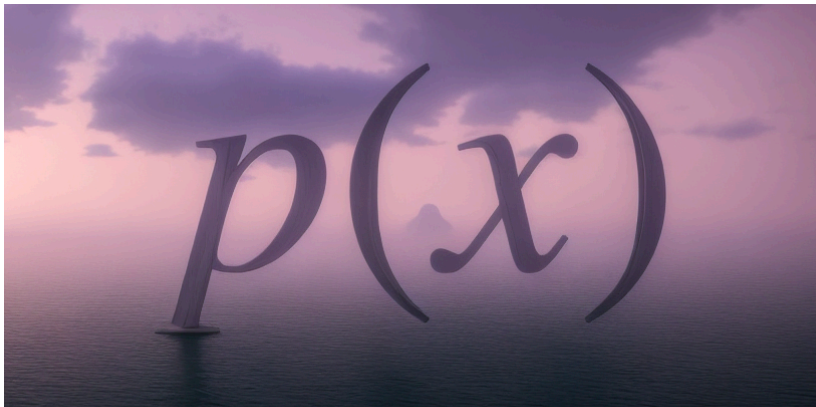


Outline

Normalizing flows (and some other models)

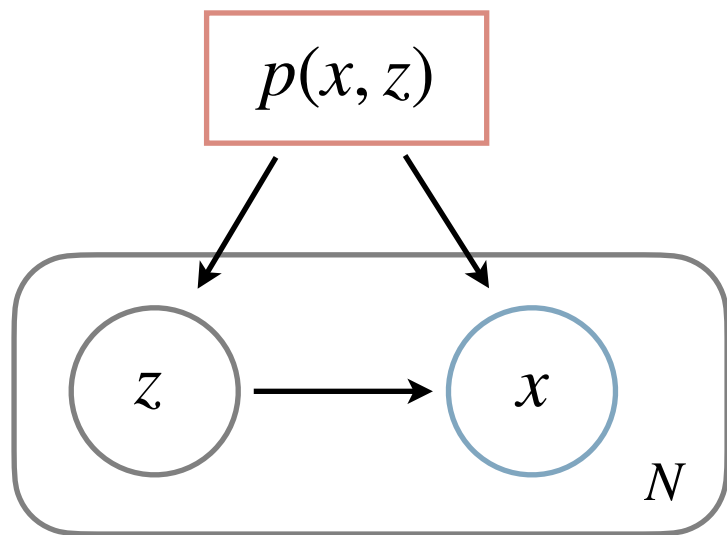
Invertible transformations





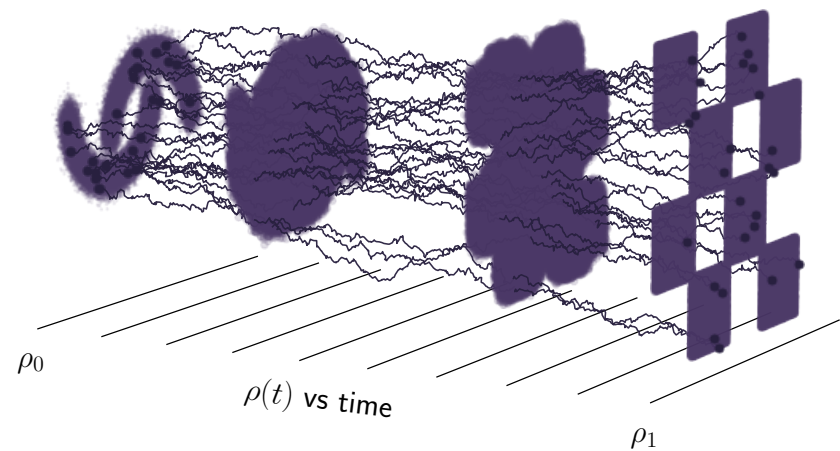
Why (deep) generative modeling?

What is it, and what can it do for you?



Variational auto encoders

Latent-variable modeling, and compression is all you need



Diffusion models

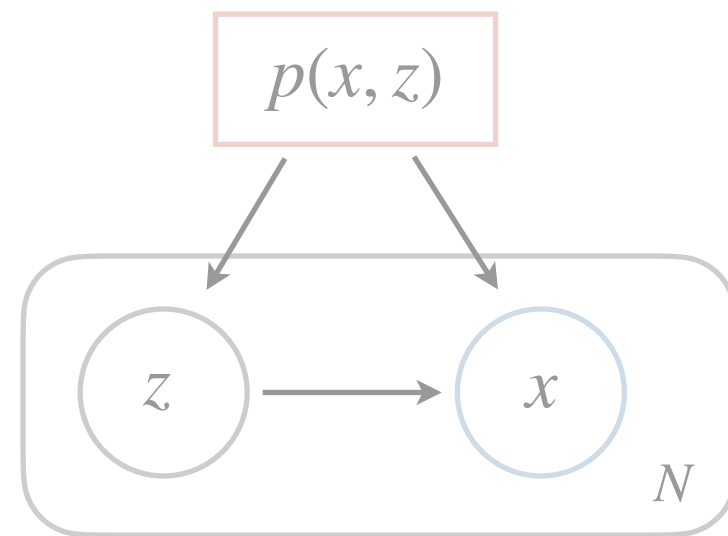
Models based on iterative refinement

Outline



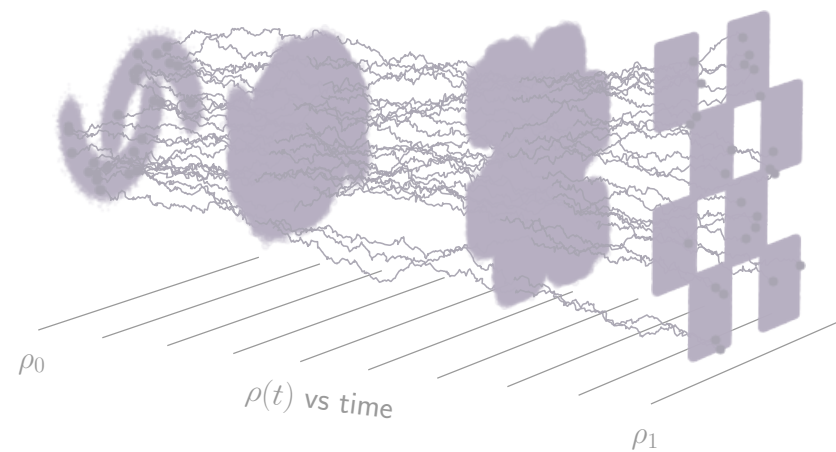
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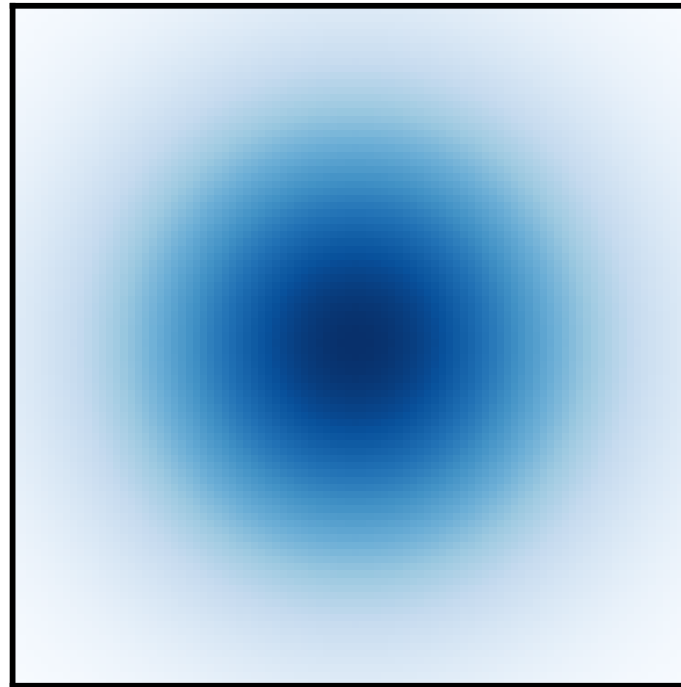


Normalizing flows (and some other models)

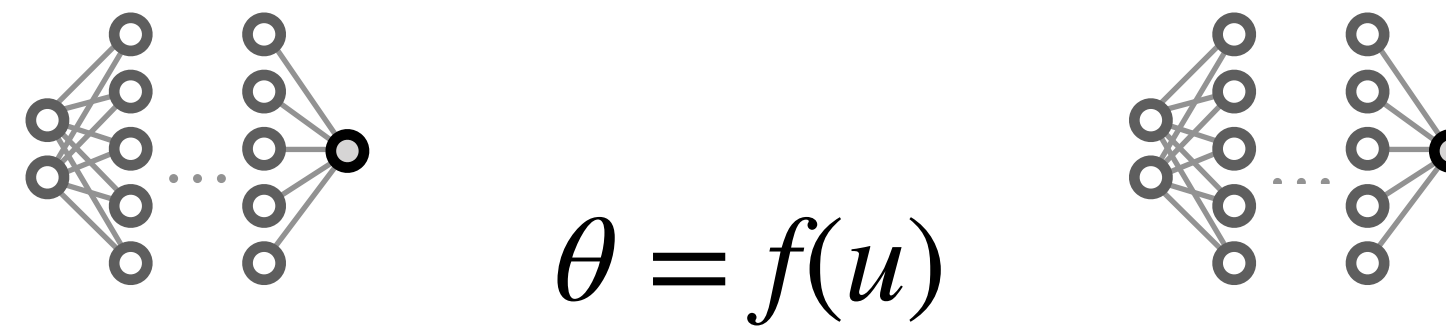
Invertible transformations

Normalizing flows

Base density



$\pi(u)$



$$\theta = f(u)$$

One-to-one transformation

Tractable f^{-1} and $\det \nabla f$

(IAIFI logo)
Target density



$$p(\theta) = \pi(f^{-1}(\theta)) |\det \nabla f|^{-1}$$