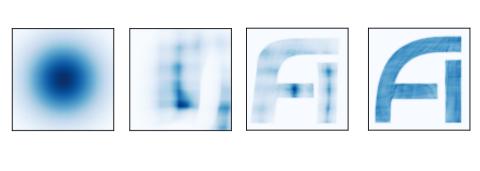
## Dutline

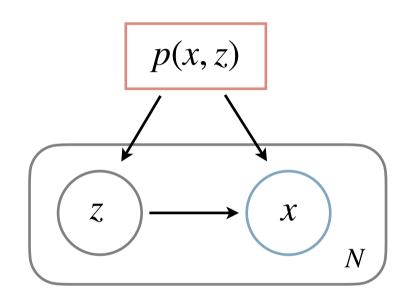
### Normalizing flows (and some other models) Invertible transformations





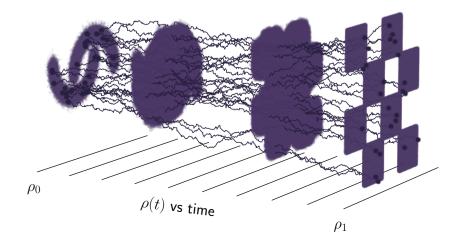
### Why (deep) generative modeling?

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



#### Variational auto encoders

Latent-variable modeling, and compression is all you need



#### Diffusion models

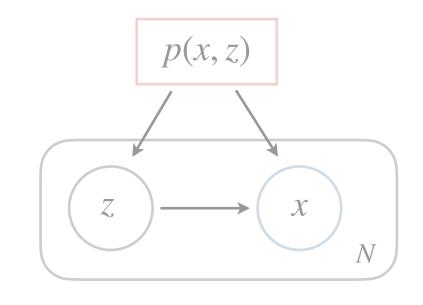
Models based on iterative refinement

## Outline



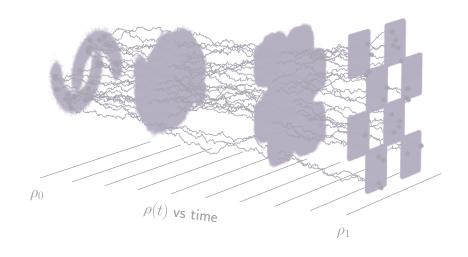


What is it, and what can it do for you?



#### Variational auto encoders

Latent-variable modeling, and compression is all you need



#### Diffusion models

Models based on iterative refinement







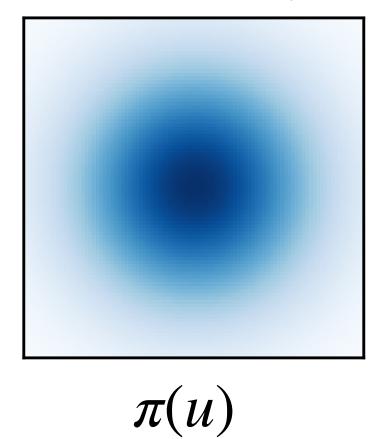


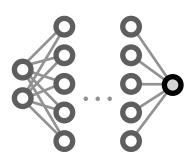
Normalizing flows (and some other models)

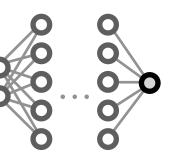
Invertible transformations

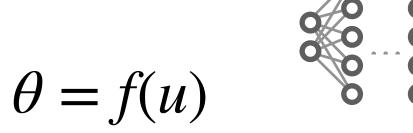
# Normalizing flows

#### Base density









One-to-one transformation Tractable  $f^{-1}$  and  $\det \nabla f$ 

(IAIFI logo)

### Target density



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