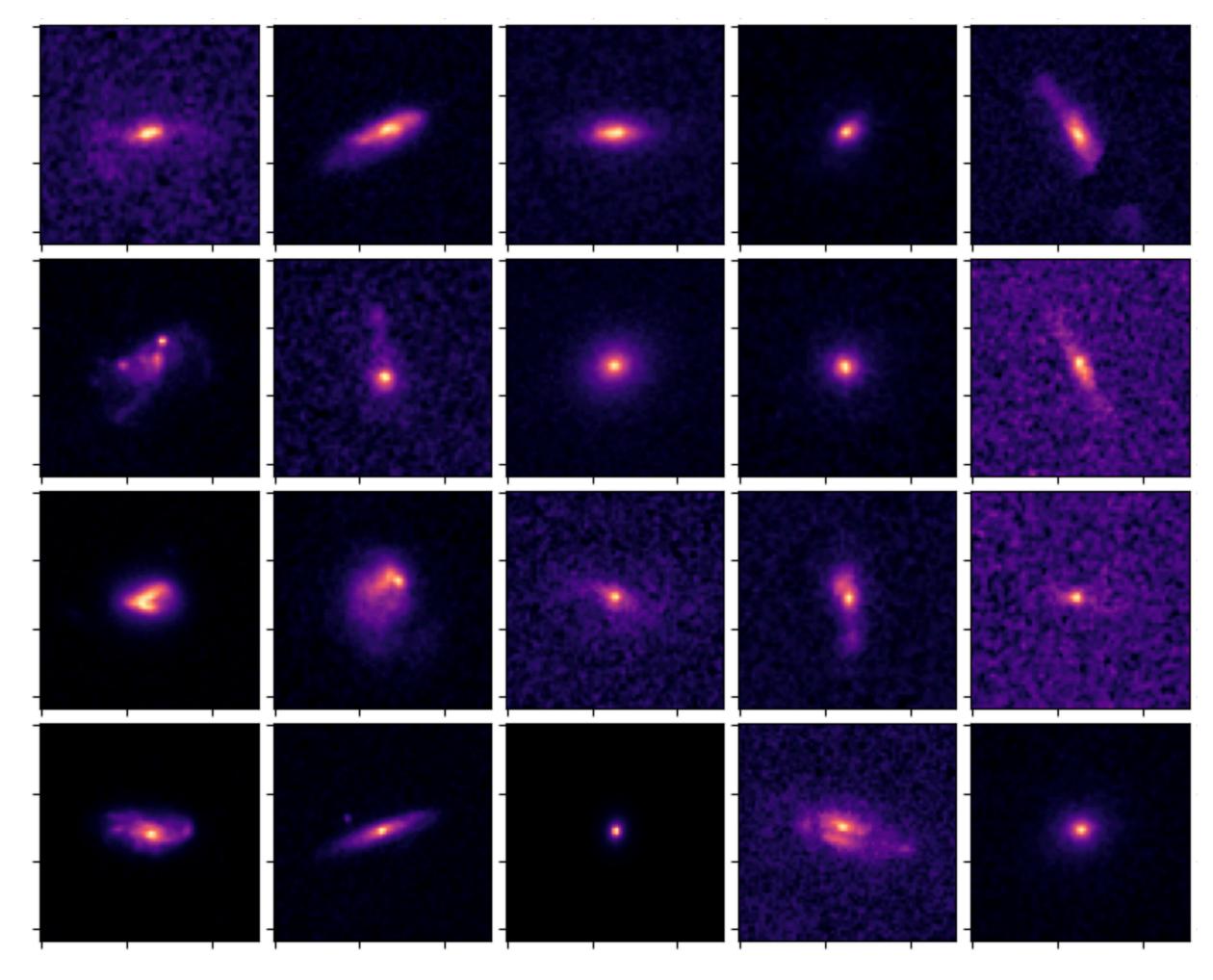
Tutorial Task 1



[Mandelbaum et al; https://zenodo.org/record/3242143]

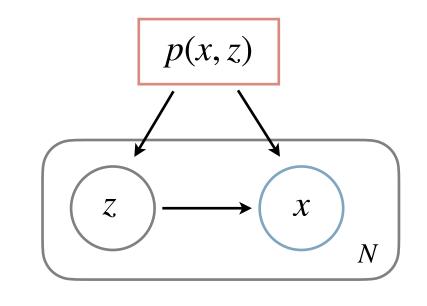
- Construct a VAE and use it to build a generative model of galaxy images using samples form the HST COSMOS dataset
- Boilerplate code for training/reconstruction/ sampling for quick iteration
- Experiment with trade-offs between reconstruction quality and a disentangled latent space

Outline



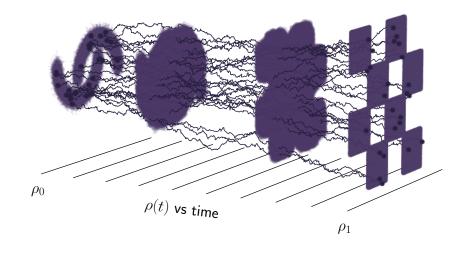


What is it, and what can it do for you?



Variational auto encoders

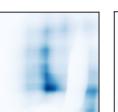
Latent-variable modeling, and compression is all you need



Diffusion models

Models based on iterative refinement









Normalizing flows (and some other models)

Invertible transformations