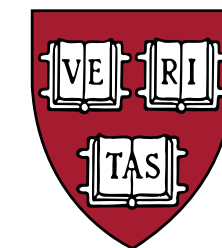


An introduction to generative modeling

with applications in physics

Siddharth Mishra-Sharma

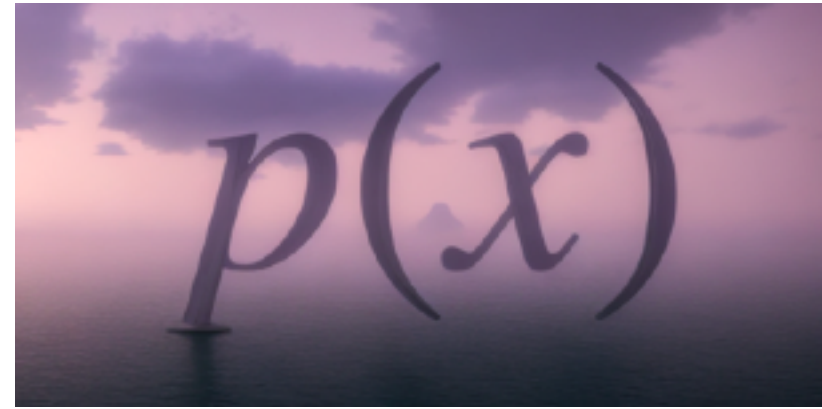


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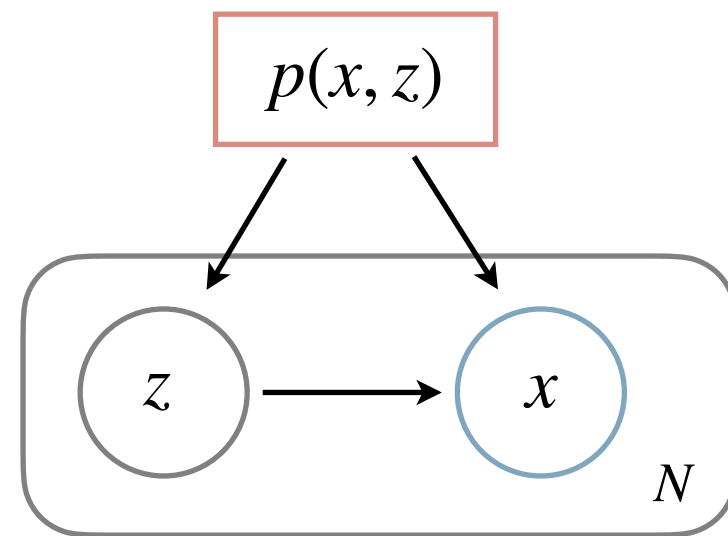
August 8, 2023

Outline



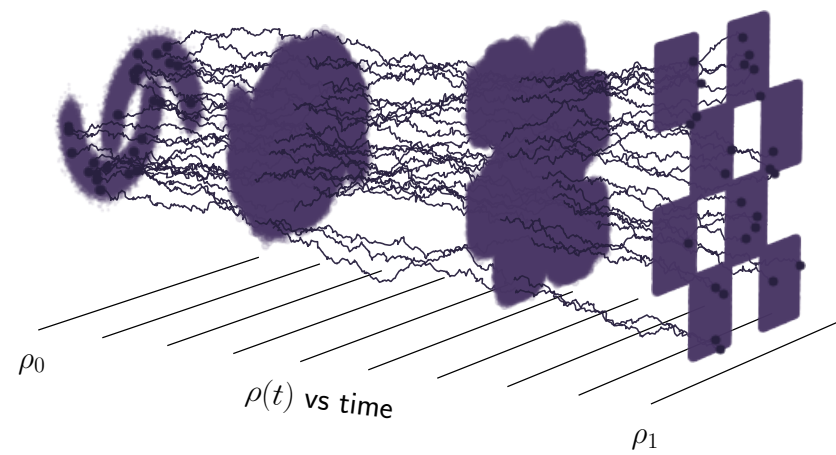
Why (deep) generative modeling?

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