

Normalizing Flows: Motivation and Fundamentals

Seismic Laboratory for Imaging and Modeling - (SLIM)
Georgia Institute of Technology

Normalizing Flow

In a nutshell, given examples from a distribution

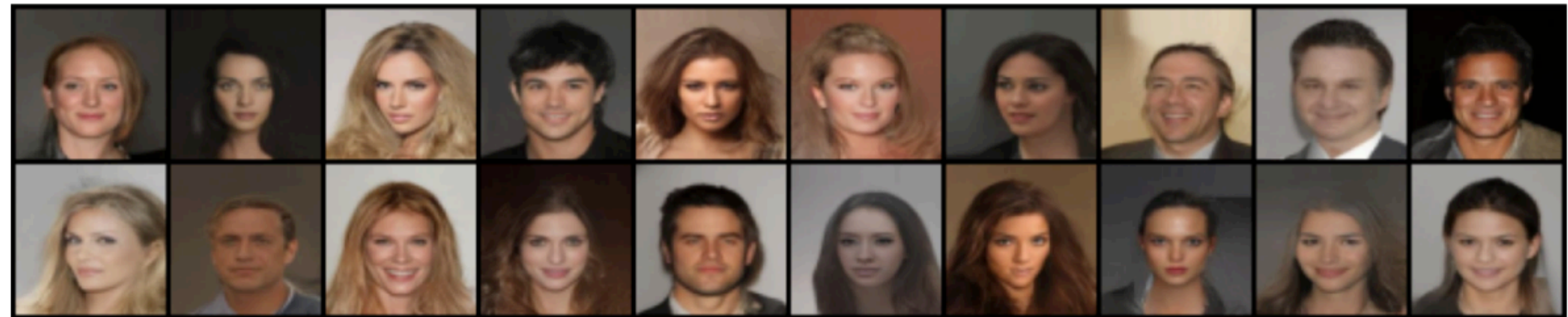
$$\{\mathbf{x}^{(i)}\}_{i=1}^{N_{train}}$$

$$\mathbf{x} \sim p_{faces}(\mathbf{x})$$



create new samples from the distribution...

$$\mathbf{x} \sim p_{\theta}(\mathbf{x}) \approx p_{faces}(\mathbf{x})$$



plus more capabilities...