Encoder **Latent Space** **Decoder**

$\epsilon \sim \mathcal{N}(\mathbf{0}, \mathbf{I})$

$\boldsymbol{\mu}$

$\log \boldsymbol{\sigma}^2$

$\mathbf{z}$
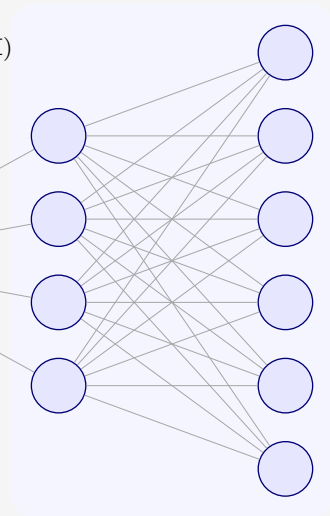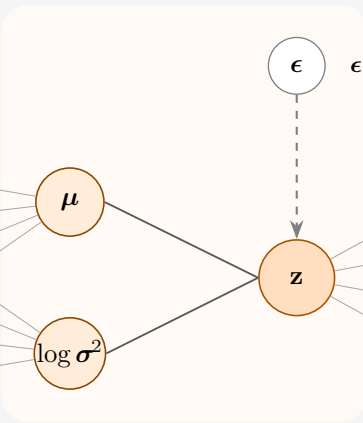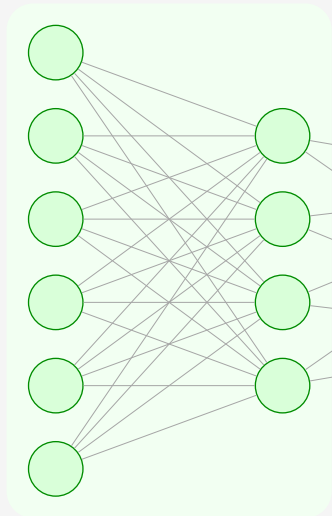
Input Data

Reconstructed Data

$$\mathbf{z} = \boldsymbol{\mu} + \boldsymbol{\sigma} \odot \boldsymbol{\epsilon}$$