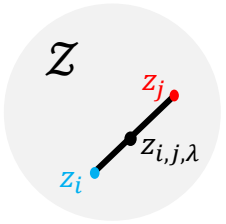
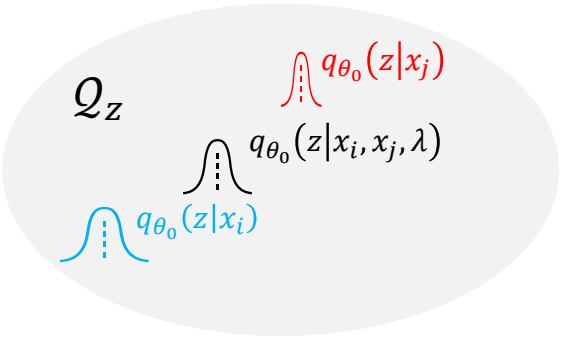
Mixup



$$\lambda \sim \mathcal{B}(\alpha, \alpha)$$
$$z_{i,j,\lambda} = \lambda z_i + (1-\lambda) z_j$$

Probabilistic Mixup



$$\lambda \sim \mathcal{B}(\alpha, \alpha)$$
$$q_{\theta_0}(z|x_i, x_j, \lambda) \propto [q_{\theta_0}(z|x_i)]^{\lambda} [q_{\theta_0}(z|x_j)]^{1-\lambda}$$