

 $oldsymbol{z} = oldsymbol{f}_{oldsymbol{y}, oldsymbol{\phi}(\hat{\mathbf{x}}, \hat{\mathbf{y}})}(oldsymbol{x}), \ oldsymbol{x} \sim p_{oldsymbol{\phi}(\hat{\mathbf{x}}, \hat{\mathbf{y}})}(oldsymbol{x} | oldsymbol{y})$

