

$$\boldsymbol{\theta}^{(k+1)} = \arg \max_{\boldsymbol{\theta}} \left(\log \mathbb{E}_{q^{(k+1)}(\mathbf{z}|\boldsymbol{\theta}^{(k)})} f(\mathbf{z}) p(\mathbf{z} | \boldsymbol{\theta}) - D_{KL} \left(q^{(k+1)}(\mathbf{z} | \boldsymbol{\theta}^{(k)}) || \tilde{p}(\mathbf{z} | \boldsymbol{\theta}) \right) \right)$$