

$$\boldsymbol{\theta}^\star := \arg \max_{\boldsymbol{\theta}} \log \mathbb{E}_{p(\mathbf{z}|\boldsymbol{\theta})} f(\mathbf{z}) = \arg \max_{\boldsymbol{\theta}} \log \mathbb{E}_{q(\mathbf{z}|\boldsymbol{\theta}')} f(\mathbf{z}) \frac{p(\mathbf{z} \mid \boldsymbol{\theta})}{q(\mathbf{z} \mid \boldsymbol{\theta}')}, \quad f(\mathbf{z}) > 0 \quad \forall \mathbf{z} \sim p(\mathbf{z} \mid \boldsymbol{\theta})$$