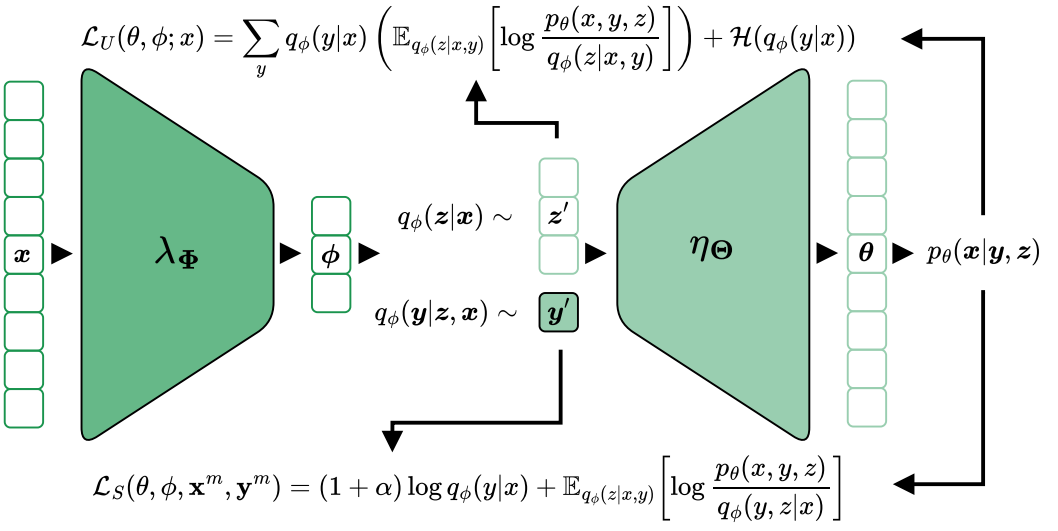
$\mathcal{L}_U(\theta, \phi; x) = \sum_y q_\phi(y|x) \left(\mathbb{E}_{q_\phi(z|x,y)} \left[\log \frac{p_\theta(x, y, z)}{q_\phi(z|x, y)} \right] \right) + \mathcal{H}(q_\phi(y|x))$
x
λ_{Φ}
ϕ
$q_\phi(z|x) \sim$
z'
$q_\phi(y|z, x) \sim$
y'
η_{Θ}
θ
$p_\theta(x|y, z)$
$\mathcal{L}_S(\theta, \phi, \mathbf{x}^m, \mathbf{y}^m) = (1 + \alpha) \log q_\phi(y|x) + \mathbb{E}_{q_\phi(z|x,y)} \left[\log \frac{p_\theta(x, y, z)}{q_\phi(y, z|x)} \right]$