

Unnormalized distribution

$$p^*(z) = p(z|X) = \frac{p(X|z)p(z)}{p(X)} = \frac{\hat{p}(z)}{Z}$$

Optimization:

$$\mathcal{KL}[q(z) \parallel \frac{\hat{p}(z)}{Z}] = \int q(z) \log \frac{q(z)}{\hat{p}(z)/Z} dz$$

