

Objective interpretation

$$\begin{aligned} \max. \sum_i \mathbb{E}_{q_i} \log \frac{p(x_i \mid t_i, w)p(t_i)}{q_i(t_i)} \\ = \sum_i \mathbb{E}_{q_i} \underbrace{\log p(x_i \mid t_i, w)}_{-\|x_i - \mu(t_i)\|^2 + \text{const}} - \mathcal{KL}(q_i(t_i) \parallel p(t_i)) \end{aligned}$$

If $\sigma(x_i) = 1$ for simplicity