

$$\mathcal{L}_{\text{dropout}}(w) = \frac{1}{N} \sum_{i=1}^N \text{Error}(y_i, \hat{y}_i) + \lambda \sum_{i=1}^L \|w\|^2$$

$$\min_w \mathcal{L}_{\text{dropout}}(w)$$

$$p(w) \equiv \mathcal{M}(0, I)$$

$$p(w \mid x, y) = \frac{p(y \mid x, w)p(w)}{p(y \mid x)}$$

$$p(y^* | x^*, x, y) = \int p(y^* | x^*, w) p(w | x, y) dw$$



Posterior:

Posterior predictive:

$$\max_{\nu} \text{ELBO}(\nu)$$