

$$p(\mathbf{y}_1|\mathbf{W},\mathbf{x})$$

 $\mathcal{L}\left(\mathbf{W}, \sigma_1^{\mathbf{W}}(\mathbf{x})^2, \sigma_2^{\mathbf{W}}(\mathbf{x})^2\right)$

Segmentation
$$f_2^{\mathbf{W}}(\mathbf{x})$$

$$p(\mathbf{y}_2 = c|\mathbf{W}, \mathbf{x})$$