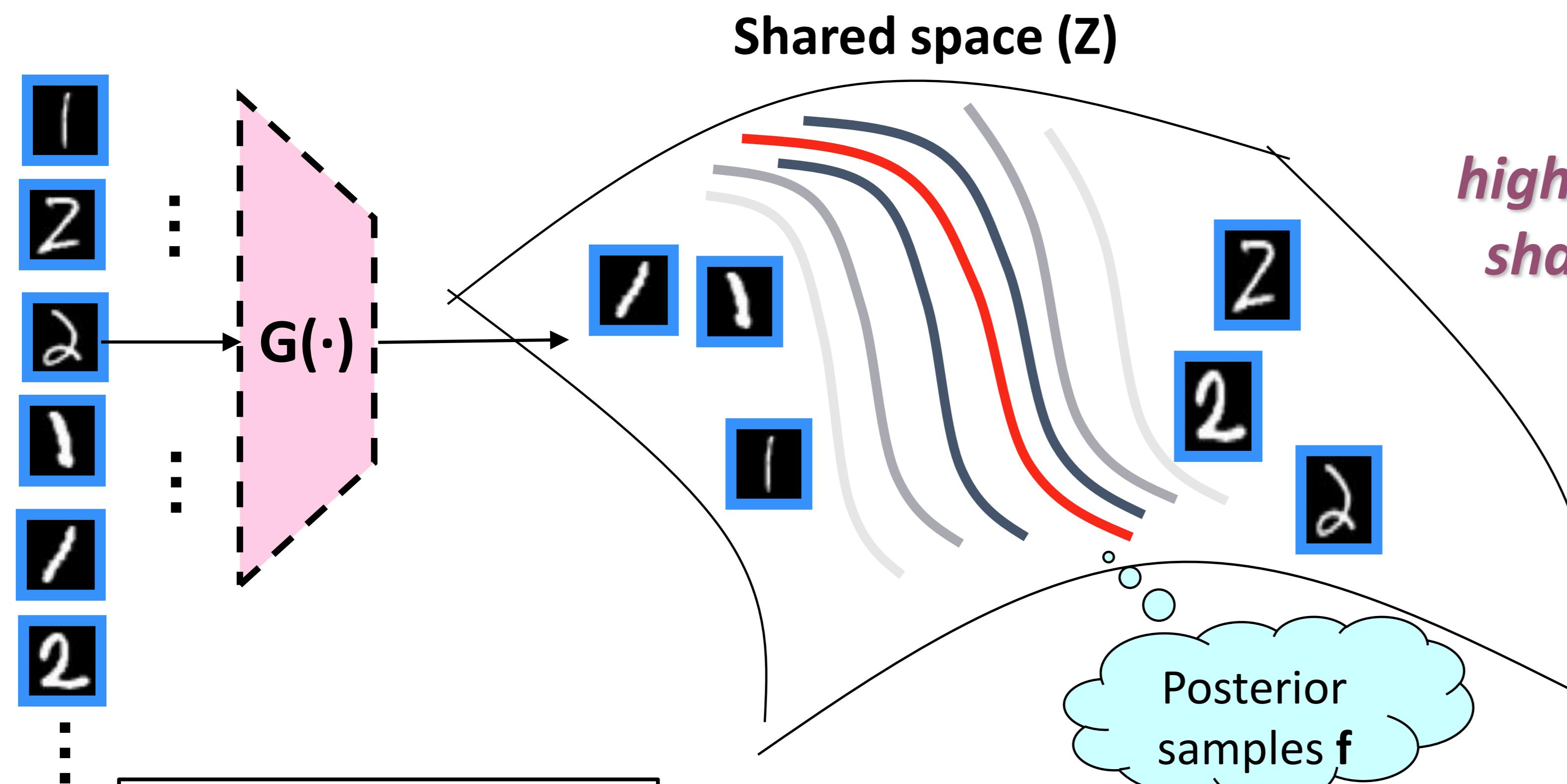
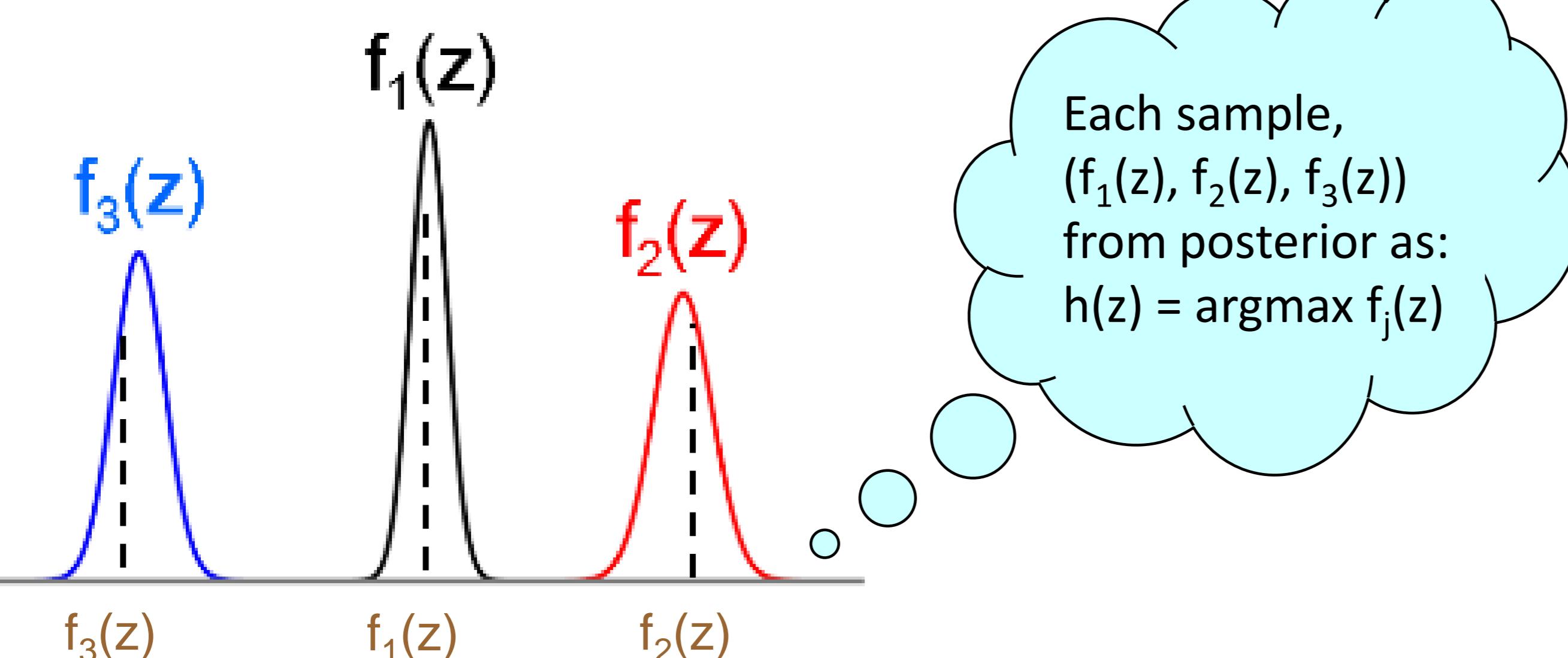


- Defining the hypothesis space H of classifiers as the posterior distribution of Gaussian Process (GP) classification on **Source** samples
- Regularize the posterior to be maximally consistent over **Target** using the **Max-margin Principle**

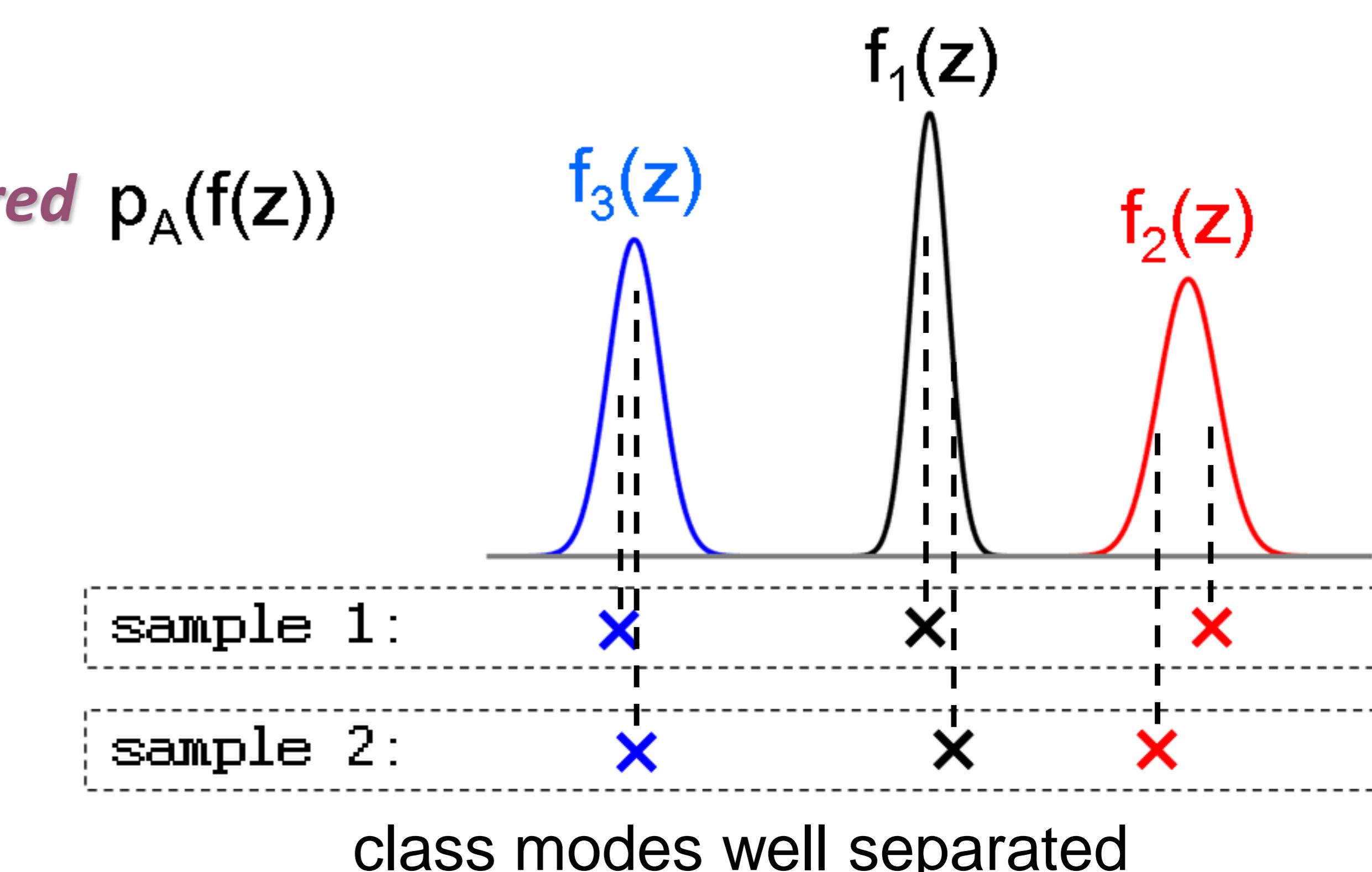


$$\mathbf{f}(z) := \begin{pmatrix} f_1(z) \\ f_2(z) \\ \vdots \\ f_K(z) \end{pmatrix} \sim GP(0, k)$$

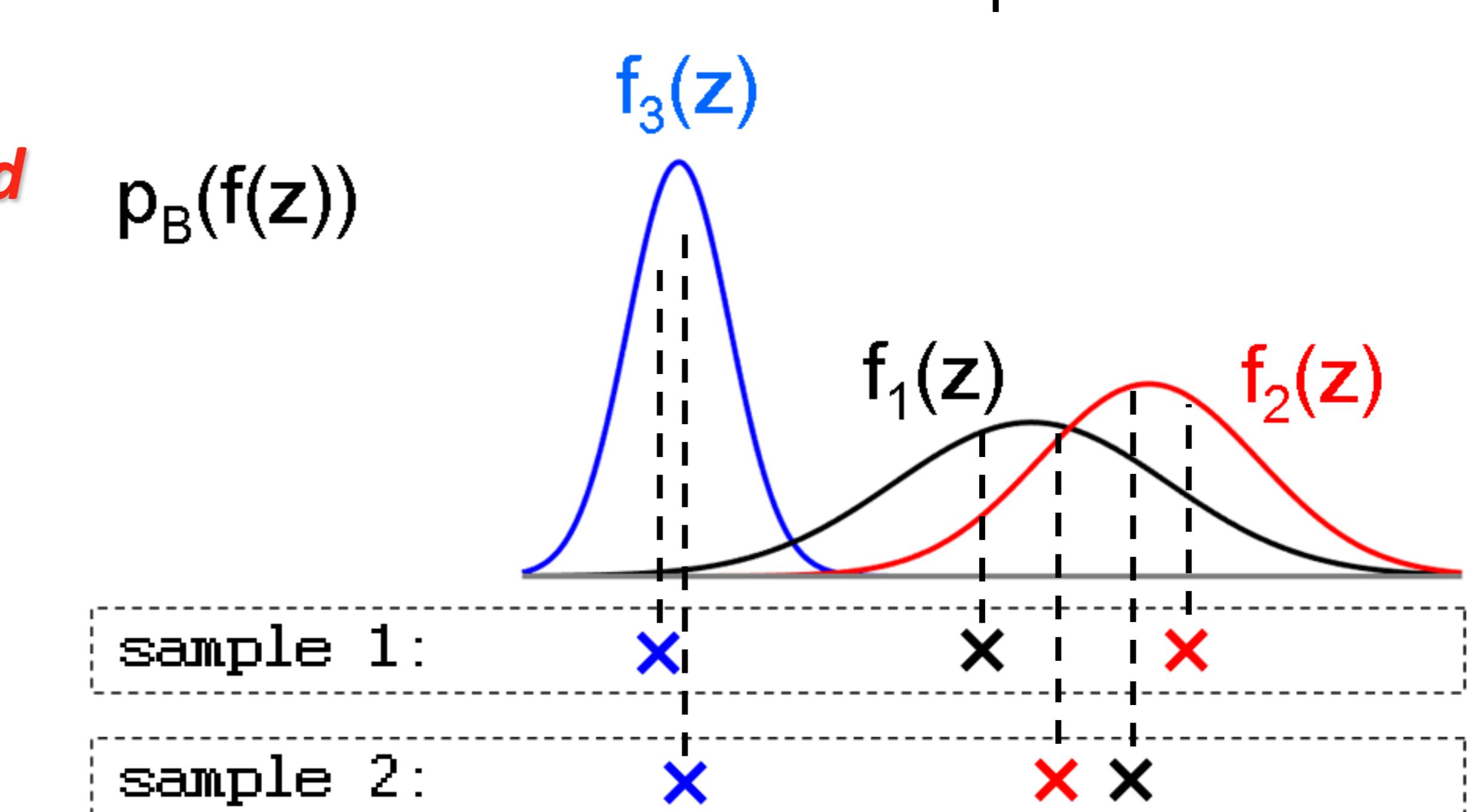
$$P(\mathbf{f} | D_S) \propto P(\mathbf{f}) \cdot \prod_i P(y_i^S | \mathbf{f}(z_i^S))$$



highly desired shape



$$p_B(f(z))$$



$$\max_{1 \leq j \leq K} \mu_j(z) \gg \max_{j \neq j^*} (\mu_j(z) + 1.96 \cdot \sigma_j(z))$$

$\mu_j(z), \sigma_j(z)$ = mean/stdev of $P(f_j(z) | D_S)$