

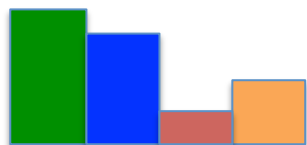
$$\mathbf{b}_j \mid \boldsymbol{\pi}, \mathbf{U} \sim \sum_k \pi_k \mathbf{N}_R(0, \mathbf{U}_k)$$



$$\mathbf{b}_1^t = [b_{\text{liver}} \ b_{\text{lung}} \ b_{\text{brain}} \ b_{\text{thyroid}}]$$



rs123



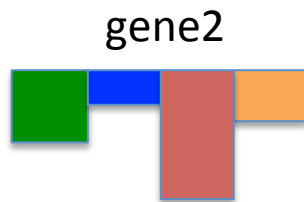
gene1

Pattern 1 $\rightarrow \mathbf{U}_1$

$$\mathbf{b}_2^t = [b_{\text{liver}} \ b_{\text{lung}} \ b_{\text{brain}} \ b_{\text{thyroid}}] \dots$$



rs456



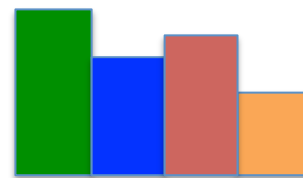
gene2

Pattern 2 $\rightarrow \mathbf{U}_2$

$$\mathbf{b}_3^t = [b_{\text{liver}} \ b_{\text{lung}} \ b_{\text{brain}} \ b_{\text{thyroid}}] \dots$$



rs789



gene3

Pattern 3 $\rightarrow \mathbf{U}_3$