



$$\mathbf{z}_n \sim \mathcal{N}_K(\mathbf{0}, I)$$

$$\mathbf{x}_n \sim \mathcal{N}_d(\mathbf{z}_n \mathbf{w}, \sigma)$$

$$\mathbf{w}_k \sim \mathcal{N}_d(\mathbf{0}, I)$$