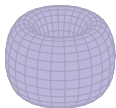


Generative Model

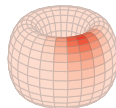
latent states on \mathcal{M}

$$g_j \sim p^{\mathcal{M}}(g)$$



tuning curves

$$f_i(g) \sim \mathcal{GP}(0, k_i^{\mathcal{M}}(g, g'))$$



N neurons

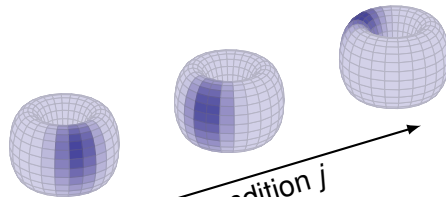
neural activity

$$y_{ij}|g_j \sim \mathcal{N}(f_i(g_j), \sigma_i^2)$$

M conditions

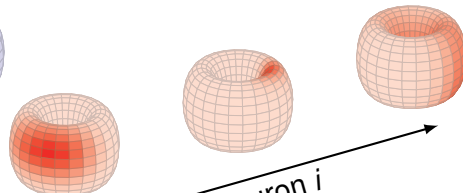
Inference

inferred latent states



condition j

inferred tuning curves



neuron i

neural activity

$$y_{ij}|g_j \sim \mathcal{N}(f_i(g_j), \sigma_i^2)$$