

$$\begin{aligned}
p(\theta|X) &\propto \prod_{i=1}^m p(x_i|\theta)p(\theta) \\
&= \exp \left( \left\langle m_0\mu_0 + \sum_{i=1}^m \phi(x_i), \theta \right\rangle - (m_0 + m)g(\theta) - h(m_0\mu_0, m_0) \right)
\end{aligned}$$