## **Langevin Monte Carlo**

Say we want to sample from  $p(w \mid D)$ 

Start from  $w^0$ 

For 
$$k = 1, ...$$

$$w^{k+1} = w^k + \varepsilon \nabla \log p(w^k \mid D) + \eta^k,$$

Gradient ascent

$$\eta^k \sim \mathcal{N}(0, 2\varepsilon I)$$