

```

for  $t = 1$  to  $T$  do
|
|  $\theta^* \sim N(\theta^{(t-1)}, \tau)$ 
|  $\alpha = \frac{\tilde{p}(\theta^*|D)}{\tilde{p}(\theta^{(t-1)}|D)}$ 
|
|  $U \sim Ber(p = \min(1, \alpha))$ 
|
| if  $U == 1$  then
| |  $\theta^{(t)} \leftarrow \theta^*$ 
| else
| |  $\theta^{(t)} \leftarrow \theta^{(t-1)}$ 
| end
end

```