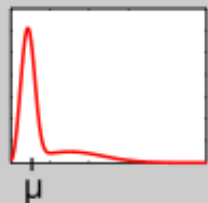
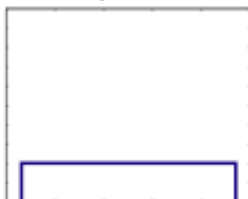


## Observational data



## Prior distribution of model parameter $\theta$

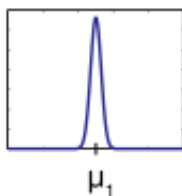


① Compute summary statistic  $\mu$  from observational data

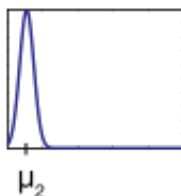
② Given a certain model, perform  $n$  simulations, each with a parameter drawn from the prior distribution



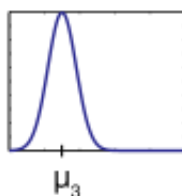
Simulation 1



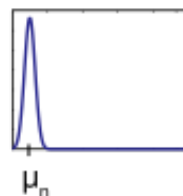
Simulation 2



Simulation 3



Simulation n



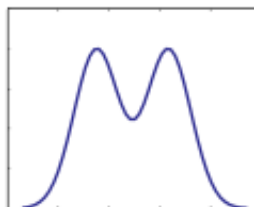
③ Compute summary statistic  $\mu_i$  for each simulation

$$\rho(\mu_i, \mu) \stackrel{?}{\leq} \epsilon$$



④ Based on a distance  $\rho(\cdot, \cdot)$  and a tolerance  $\epsilon$ , decide for each simulation whether its summary statistic is sufficiently close to that of the observed data.

## Posterior distribution of model parameter $\theta$



⑤ Approximate the posterior distribution of  $\theta$  from the distribution of parameter values  $\theta_i$  associated with accepted simulations.