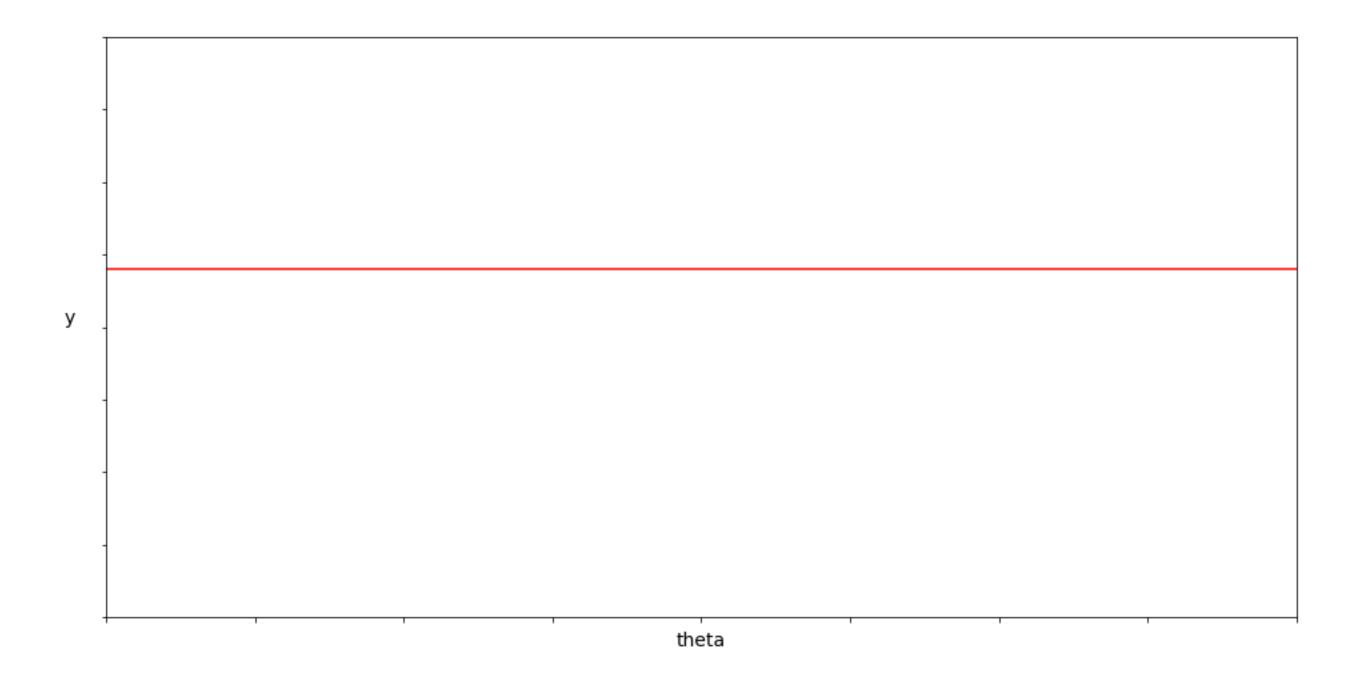
Inference without likelihood

- Use the capability to draw simulated data conditioned on the input parameters
- Likely true parameter values are thought to produce data that are similar to the

observed data

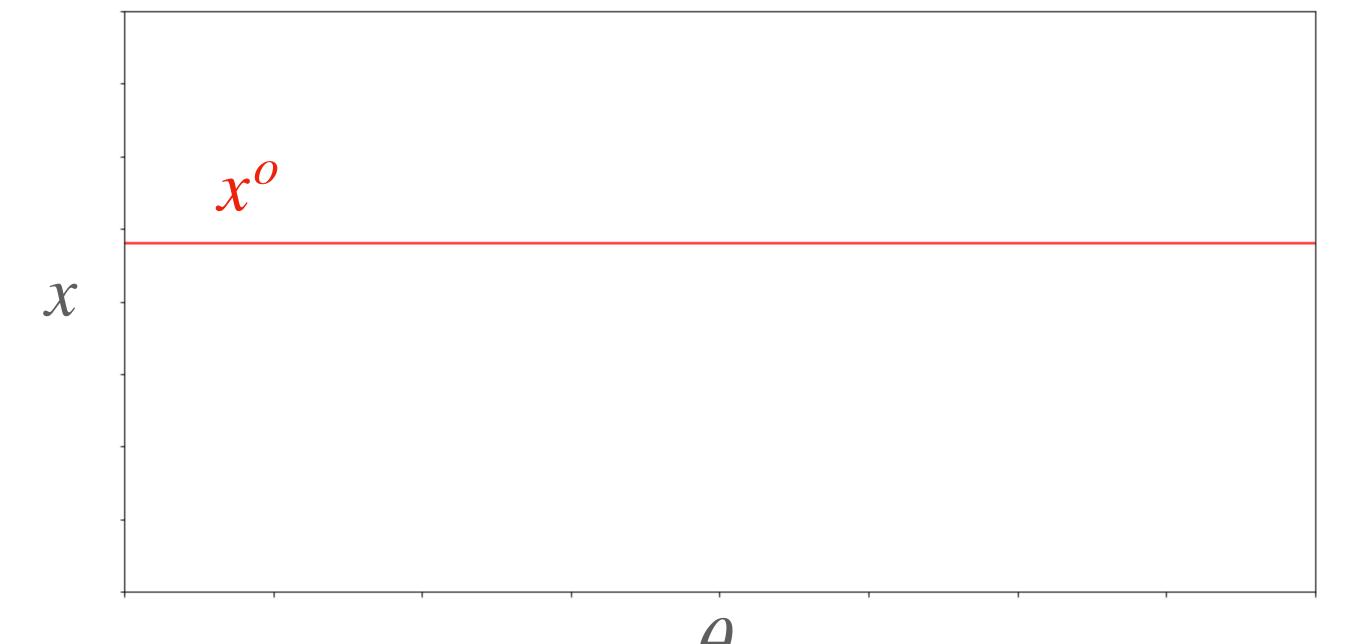






Inference without likelihood

- Use the capability to draw simulated data conditioned on the input parameters
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Inference without likelihood

- Use the capability to draw simulated data conditioned on the input parameters
- Likely true parameter values are thought to produce data that are similar enough to the observed data
- Approximate the posterior distribution as

$$p(\theta \mid x^o) \propto p(x^o \mid \theta)p(\theta) = \int \mathbb{I}_{\Omega(x^o)}(x)p(x \mid \theta) dx p(\theta)$$

• Region $\Omega(x^o) = \{x: d(x,x^o) \le \epsilon\}$ contains data that are similar enough to the realised observation