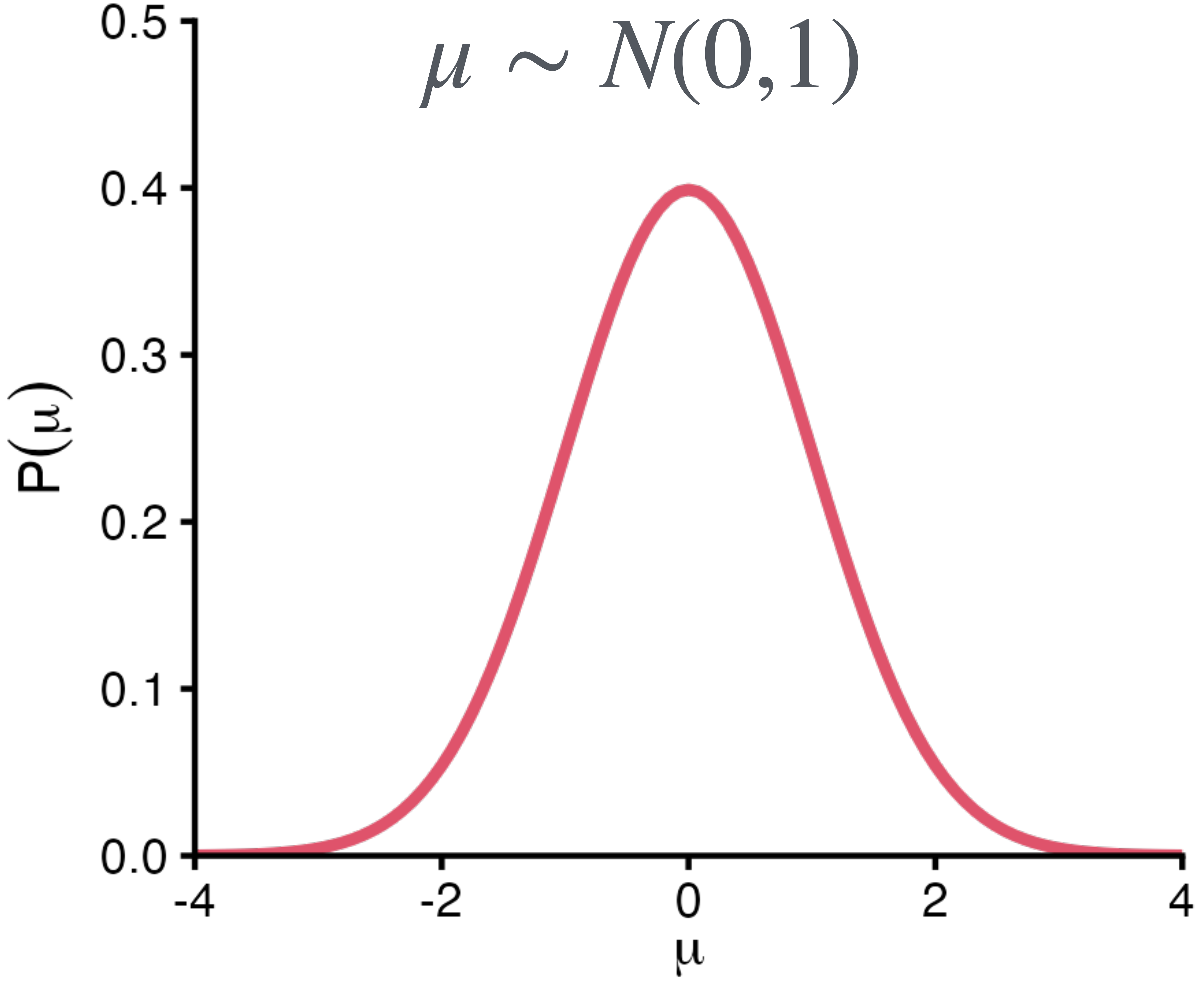
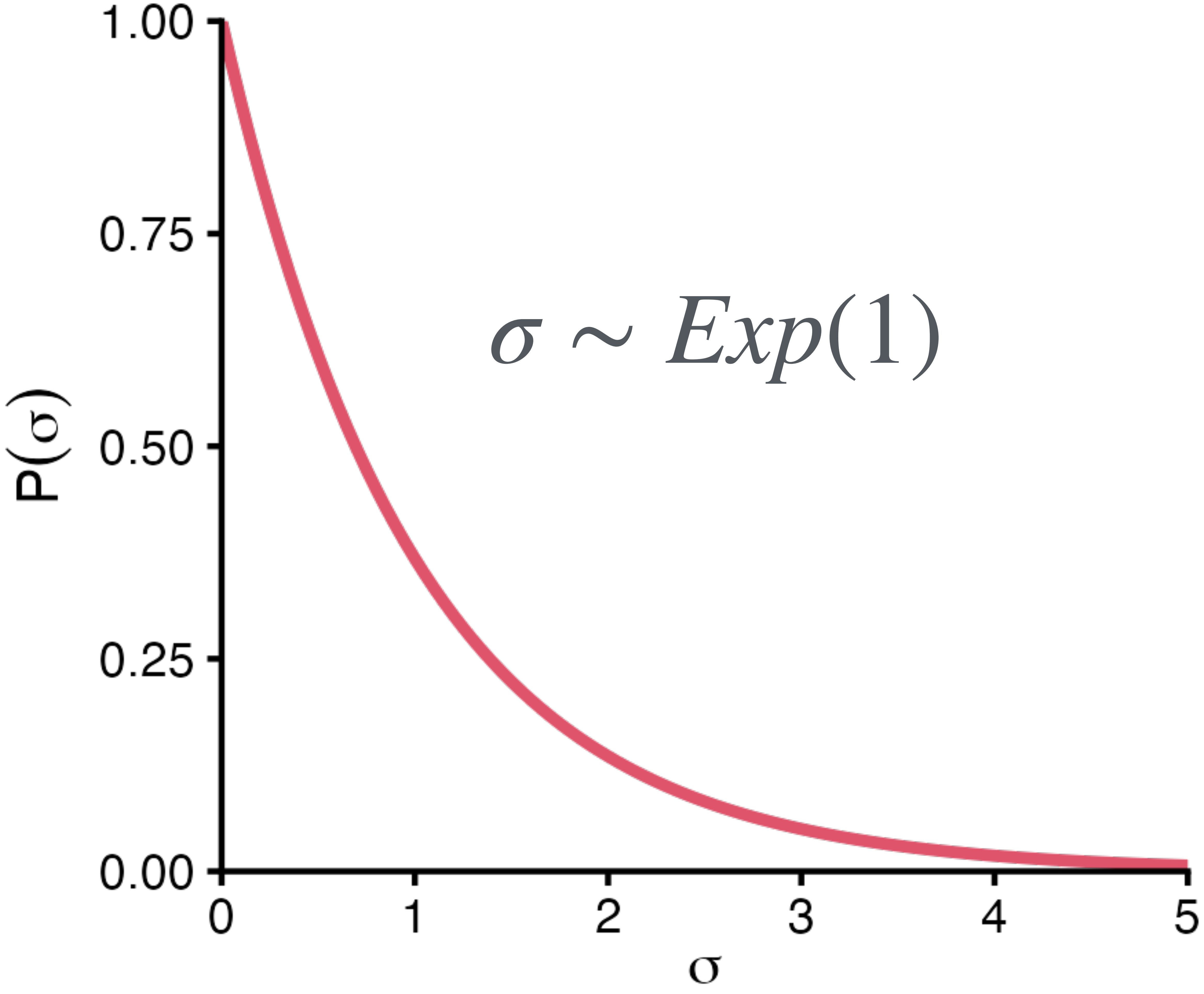
The priors

The encoding of our guesses

$$y_i \sim N(\mu, \sigma)$$
$$\mu \sim N(0,1)$$
$$\sigma \sim Exp(1)$$





Fitting the model

We have pretty good computers

Math

$$y_i \sim N(\mu, \sigma)$$
$$\mu \sim N(0,1)$$
$$\sigma \sim Exp(1)$$

R Code

```r
library(rethinking)

df <- data.frame(y = rnorm(100, 3, 1))
fit <- ulam(alist(
        y ~ normal(mu, sigma),
        mu ~ normal(0, 1),
        sigma ~ exponential(1)),
        data = df)
```