

Hierarchical Structure of Meta-Analysis Model

$\mu = 0$, $\sigma^2 = 1$, $\tau^2 = 0.2$

True $\mu = 0.3$

$$y_i | \mu, \sigma^2 \sim N(\mu, \sigma^2)$$

$$\mu \sim N(0.1, 1^2)$$

Study

6

4

2

0

-2

-1

0

1

2

Effect Size

Components

— Distribution of μ

● Observed effects y_i

— Prior for σ^2

● True effects μ_i

