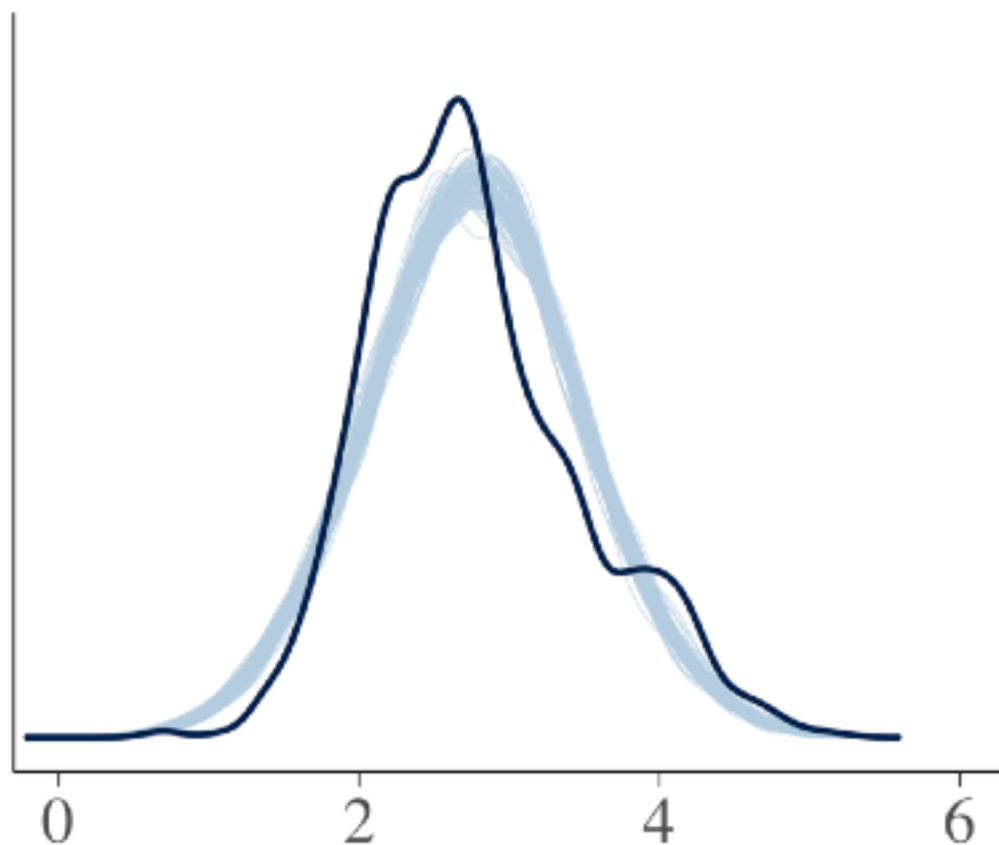# Posterior predictive checking
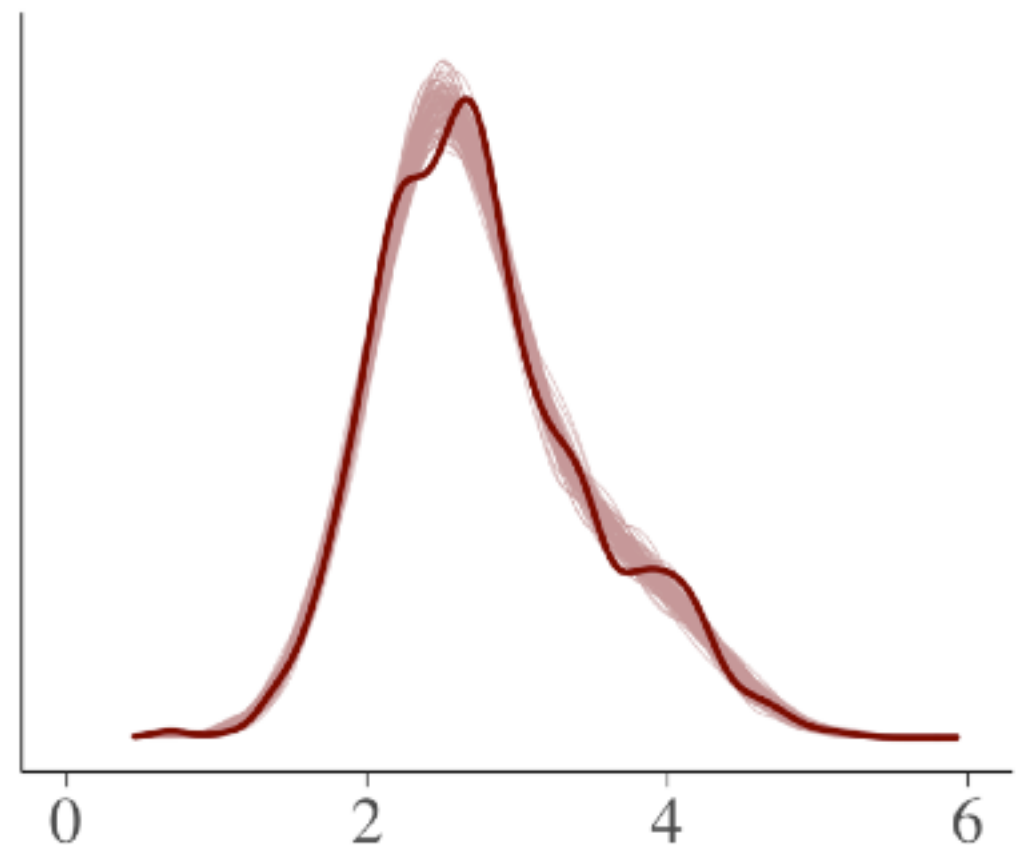visual model evaluation

Observed data vs posterior predictive simulations

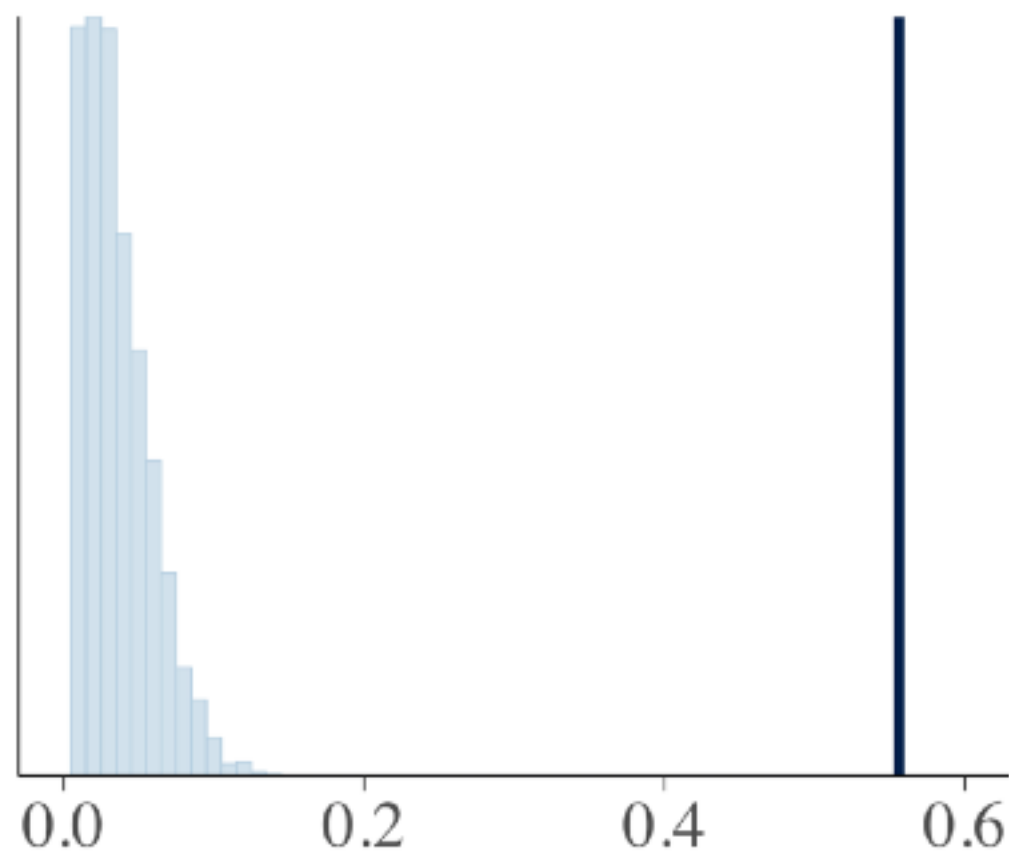**Model 1 (single level)**

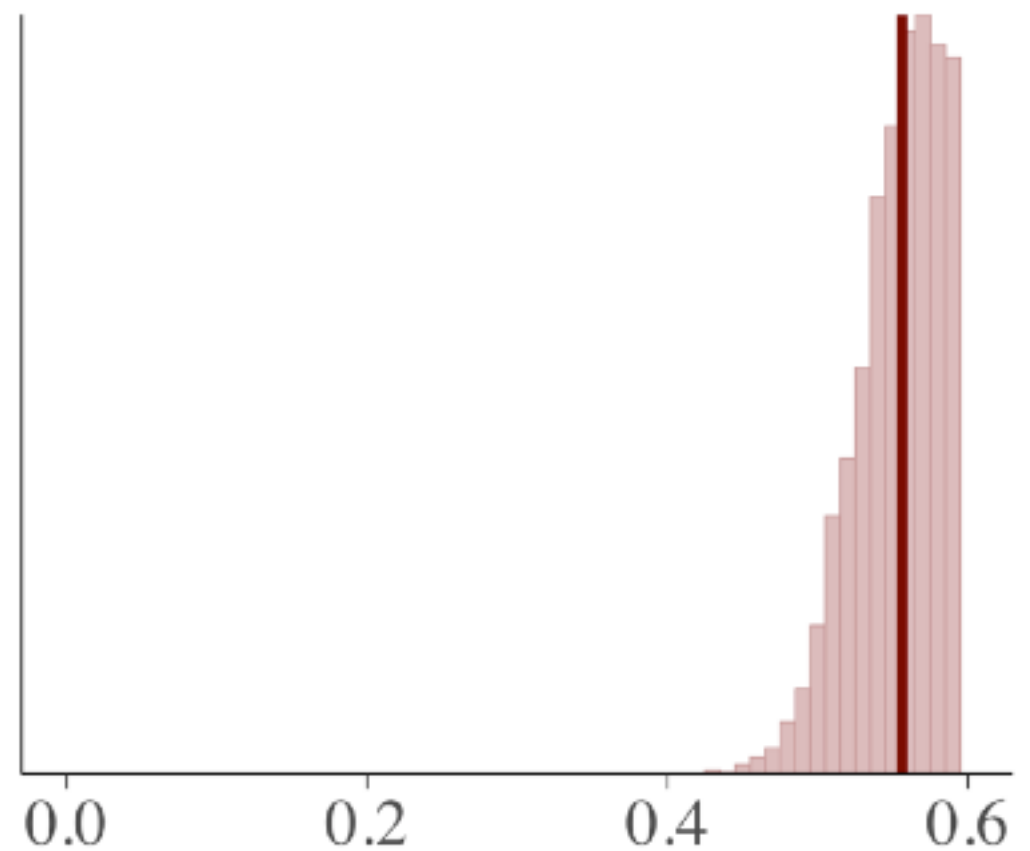**Model 3 (multilevel)**

Posterior predictive checking
visual model evaluation

Observed statistics vs posterior predictive statistics

Model 1 (single level)   **Model 3 (multilevel)**

$$T(y) = \text{skew}(y)$$