

Bayesian vs Likelihood inference/models

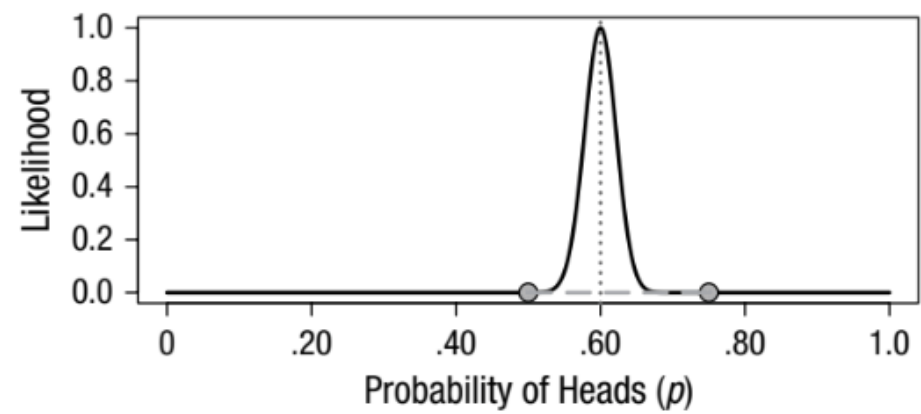
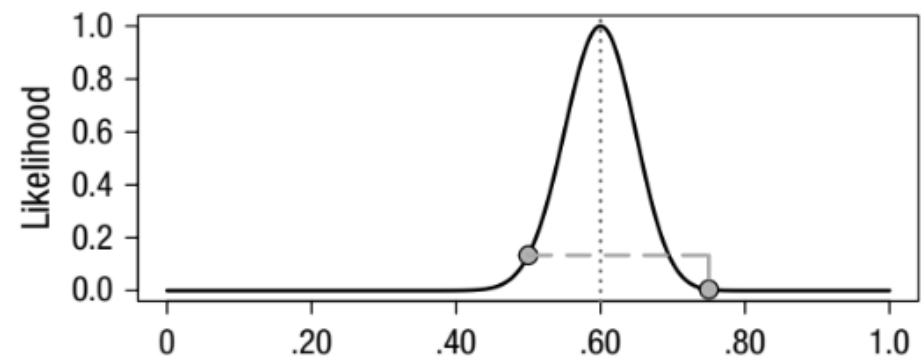
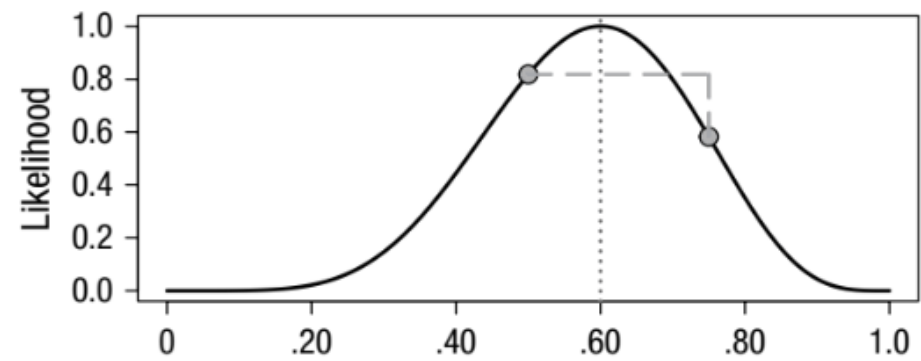
Likelihood

$$L(H) = K \times P(D | H)$$

$L(H)$ likelihood of a hypothesis H

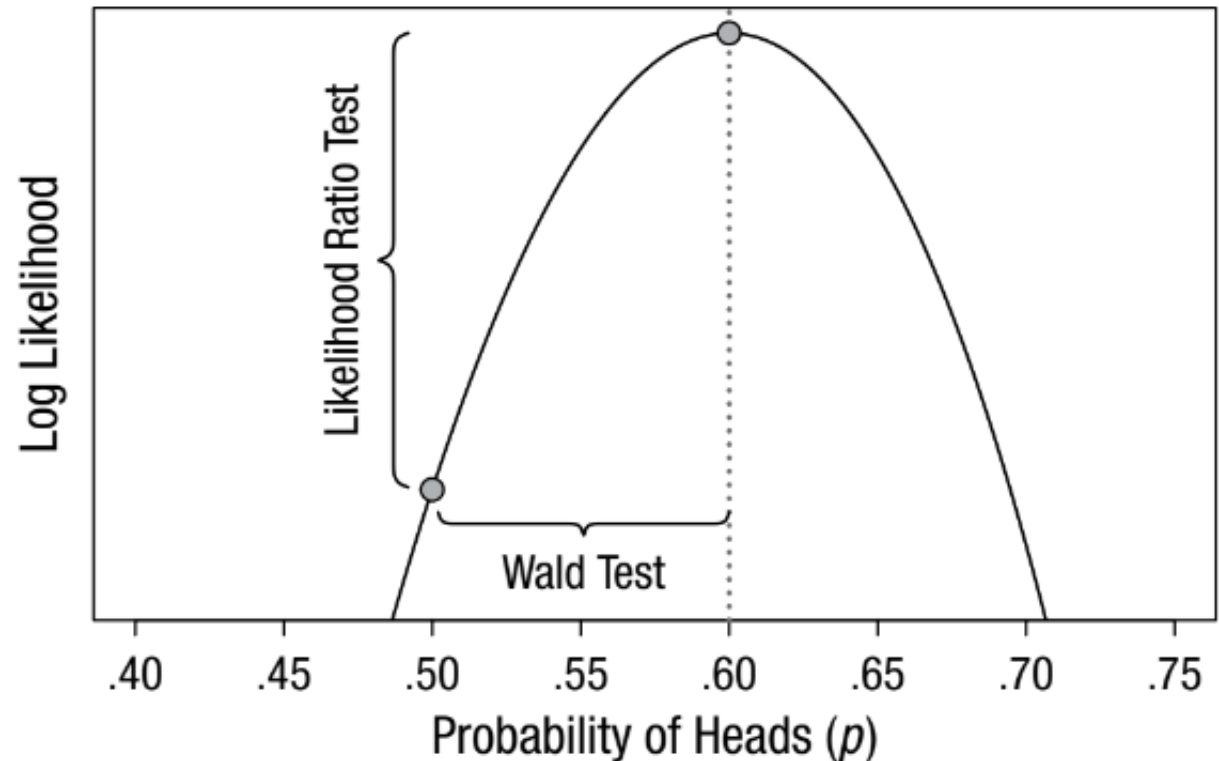
$P(D|H)$ probability of obtaining the data D given that the hypothesis H is true

K a positive constant

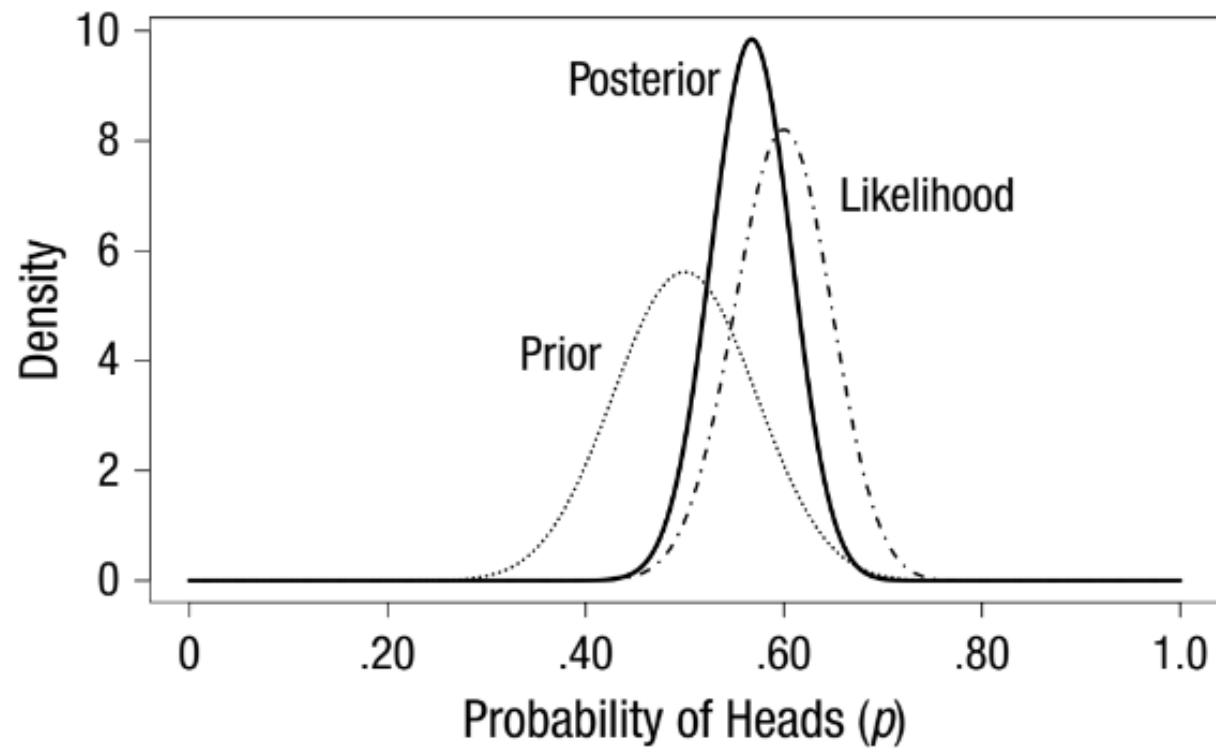


Inference using likelihood function

- Maximum likelihood estimation
 - Likelihood ratio test
 - Wald tests



Bayesian inference



Discussion/Exercise

Which teacher (Thomas, Palle, Iker) is the smartest given the data?