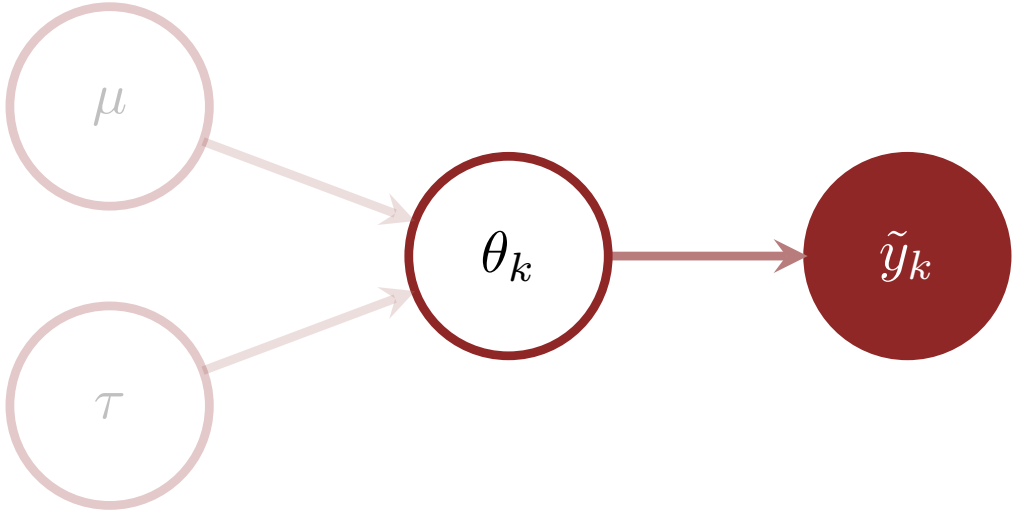
Strongly Informative Individual Likelihood Function



$$\pi(\tilde{y}_k, \theta_k, \mu, \tau) = \pi(\tilde{y}_k \mid \theta_k) \cdot \text{normal}(\theta_k \mid \mu, \tau) \cdot \pi(\mu) \cdot \pi(\tau)$$