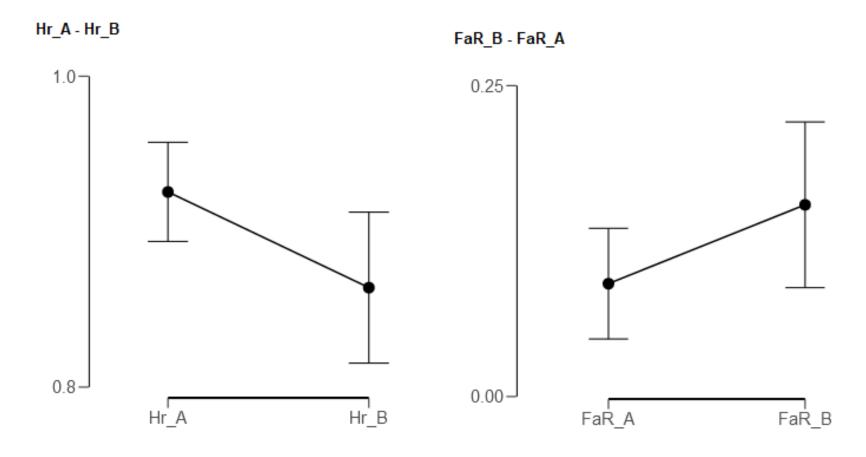
Modelos Theta: Comparando las Thetas de Hits y FA por clase

Estudios en Detección de Señales - Tesis de Licenciatura

Adriana F. Chávez De la Peña

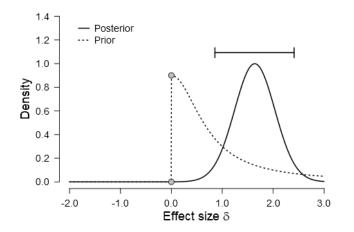
EXPERIMENTO 1

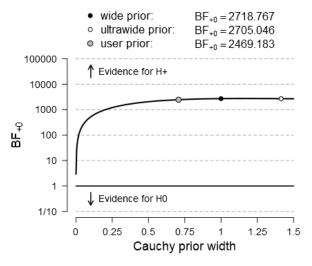
(Figura de Ebbinghaus vs Círculo))



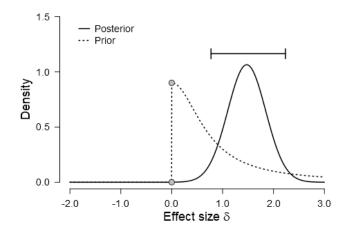
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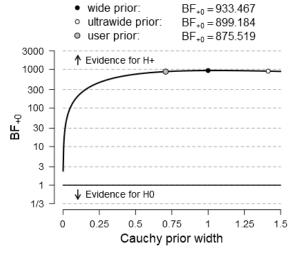
Bayes Factor Robustness Check





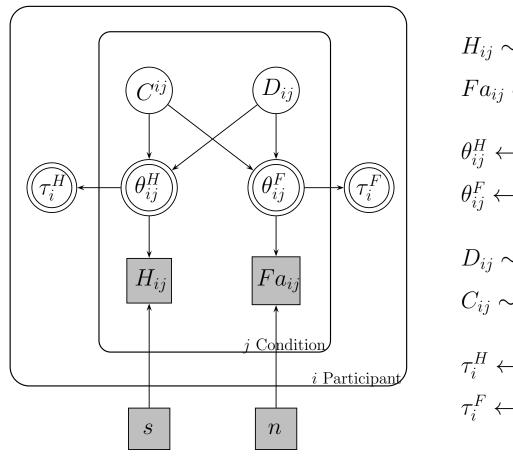






F.A.

Modelo gráfico 1:



$$H_{ij} \sim \text{Binomial}(\theta_{ij}^H, s)$$

$$Fa_{ij} \sim \text{Binomial}(\theta_{ij}^F, s)$$

$$\theta_{ij}^H \leftarrow \phi(\frac{1}{2}D_{ij} - C_{ij})$$

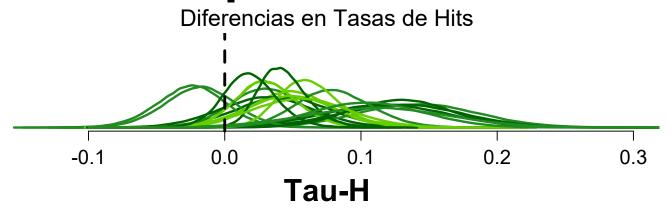
$$\theta_{ij}^F \leftarrow \phi(-\frac{1}{2}D_{ij} - C_{ij})$$

$$D_{ij} \sim \text{Gaussian}(0, 0.5)$$

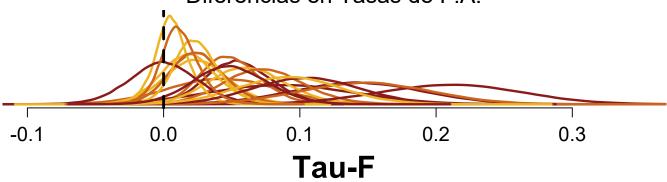
$$C_{ij} \sim \text{Gaussian}(0,2)$$

$$\tau_i^H \leftarrow \theta_{i1}^H - \theta_{i2}^H$$

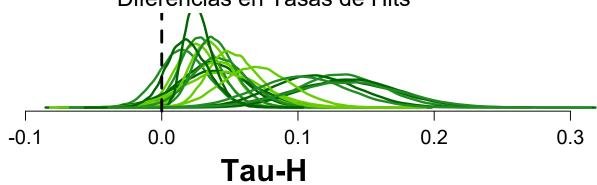
$$au_i^F \leftarrow heta_{i1}^F - heta_{i1}^F$$



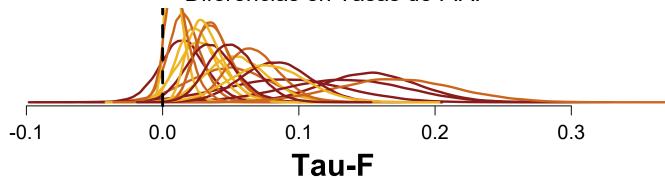




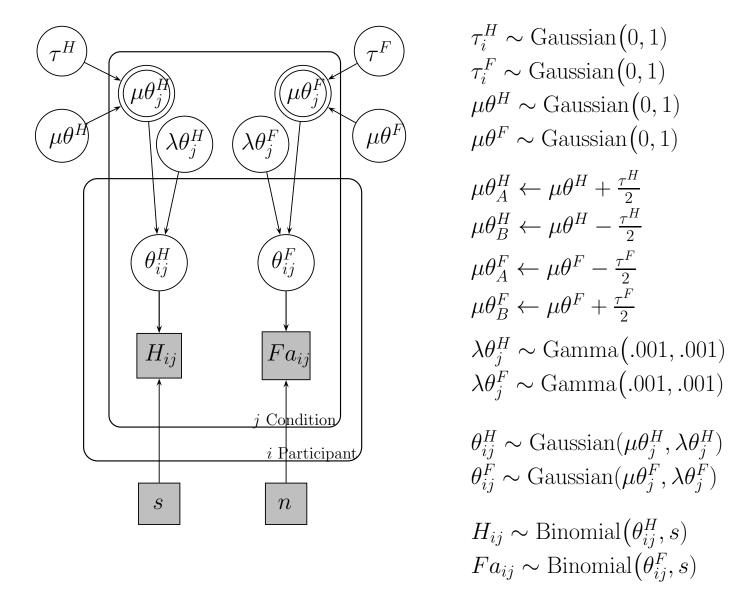


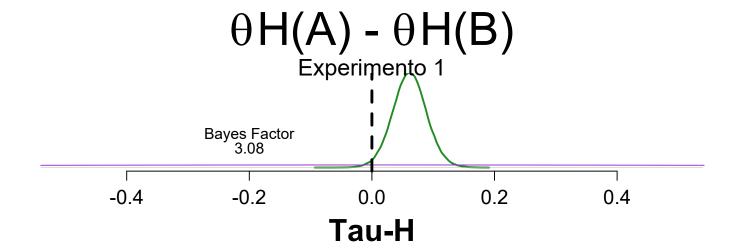


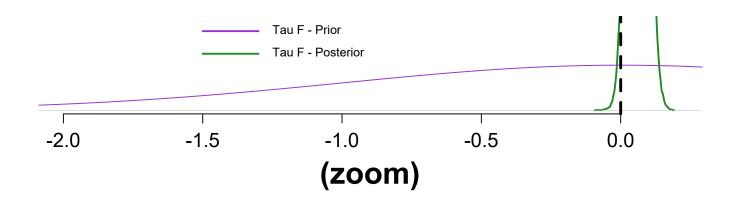
Diferencias en Tasas de F.A.

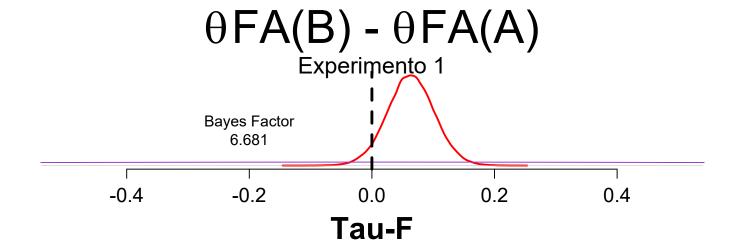


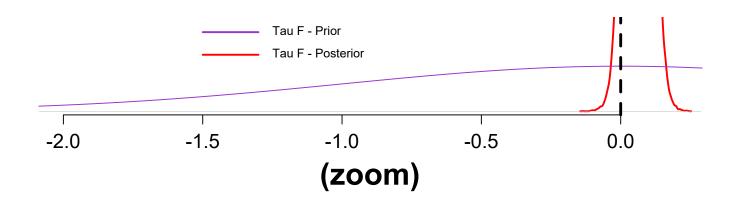
Modelo gráfico 2:



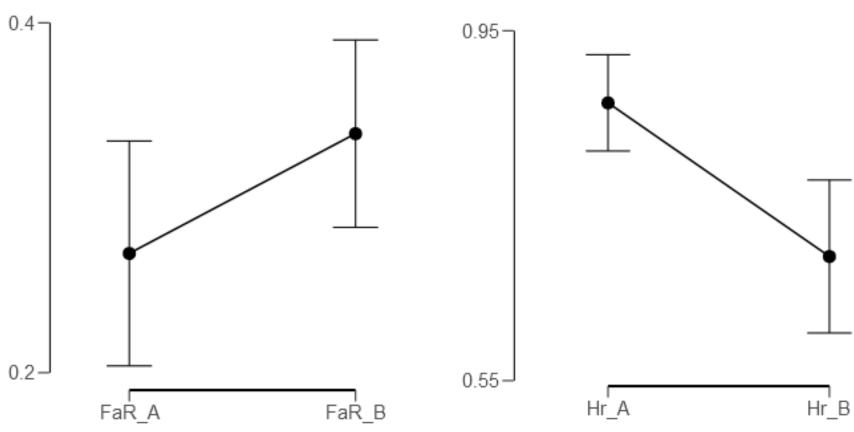






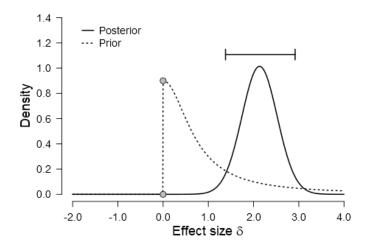


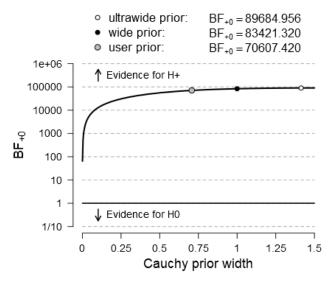




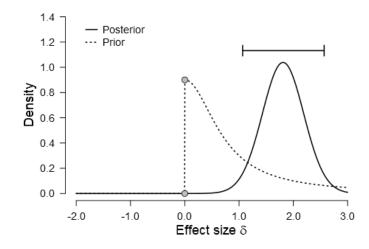
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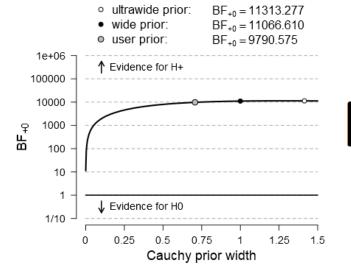
Bayes Factor Robustness Check





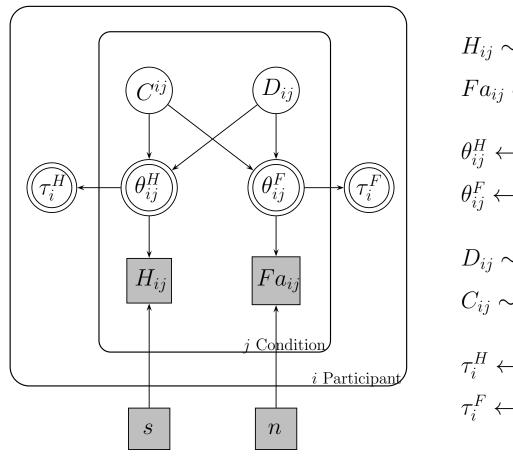






F.A.

Modelo gráfico 1:



$$H_{ij} \sim \text{Binomial}(\theta_{ij}^H, s)$$

$$Fa_{ij} \sim \text{Binomial}(\theta_{ij}^F, s)$$

$$\theta_{ij}^H \leftarrow \phi(\frac{1}{2}D_{ij} - C_{ij})$$

$$\theta_{ij}^F \leftarrow \phi(-\frac{1}{2}D_{ij} - C_{ij})$$

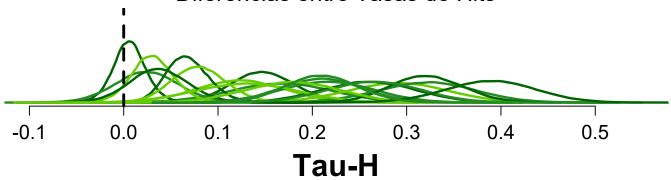
$$D_{ij} \sim \text{Gaussian}(0, 0.5)$$

$$C_{ij} \sim \text{Gaussian}(0,2)$$

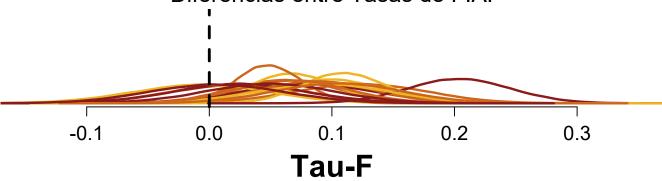
$$\tau_i^H \leftarrow \theta_{i1}^H - \theta_{i2}^H$$

$$au_i^F \leftarrow heta_{i1}^F - heta_{i1}^F$$

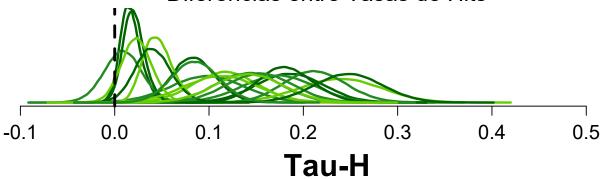
Diferencias entre Tasas de Hits



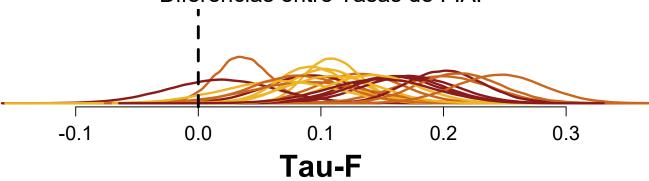
Diferencias entre Tasas de F.A.



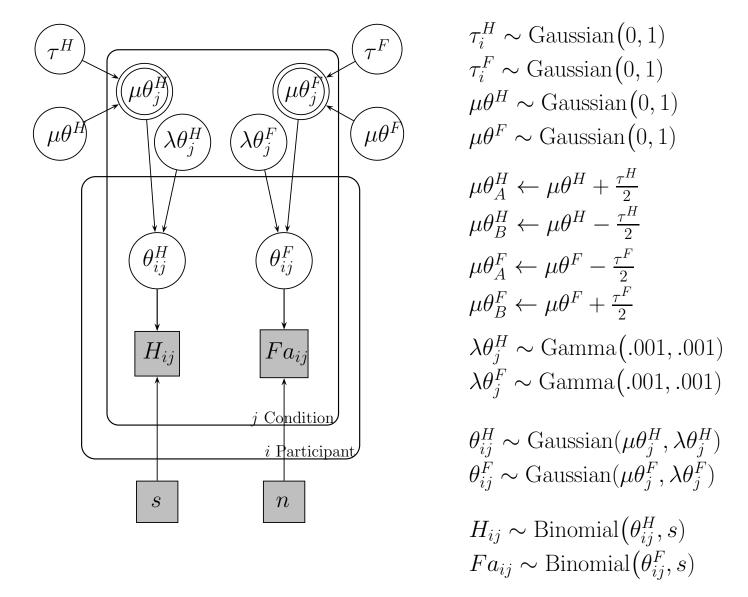
Diferencias entre Tasas de Hits

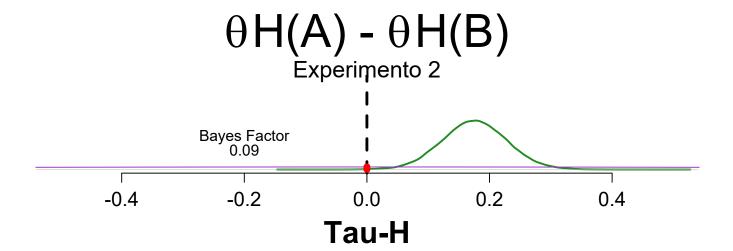


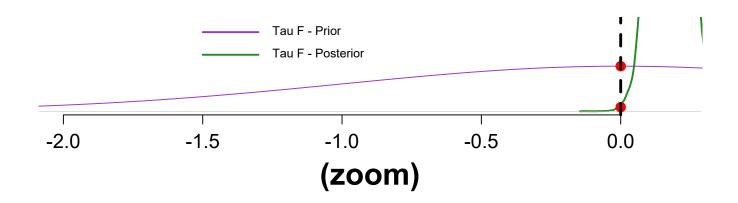
Diferencias entre Tasas de F.A.



Modelo gráfico 2:







θFA(B) - θFA(A) Experimento 2 Bayes Factor 6.689 -0.4 -0.2 0.0 0.2 0.4 Tau-F

