

$$g(\lambda) = X^T \beta$$

$$\ln(\lambda) = (X^T \beta)$$

$$\lambda = e^{X^T \beta}$$

$$E[\text{Reclamos}] = e^{B_0 + B_1 T.C + B_2 g/e}$$

$$\text{Reclamos} \sim \text{Poi}(\lambda) \quad \text{de Reclamos}$$

$$\text{b.) modelo } \lambda = e^{B_0 + B_1 T.C + B_2 g/e}$$

$$P(\text{Reclamos} = 50 \mid P/1000, T.C. = \text{Peñón}, g/e = 1)$$

$$P(\text{Reclamos} = 50 \mid \lambda = e^{B_0 + B_1 \cdot \text{Peñón} + B_2 \cdot 1})$$

$$P(\text{Poi}(\lambda) = 50)$$

$$\lambda = e$$

$$\ln(\lambda) = \ln(n_j) + X^T \beta$$

$$\ln(\lambda_j) - \ln(n_j) = X^T \beta$$

$$\ln\left(\frac{\lambda_j}{n_j}\right) = X_j^T \beta$$

$$\lambda = E[\text{Reclamaciones}]$$

$$n_j = \log(\text{Población})$$

$$X^T \beta = B_0 + \text{mediano} + \text{Peñón} + \text{edad 2}$$

$$\frac{\lambda_j}{n_j} = e^{X_j^T \beta}$$

$$\frac{E[\text{Reclamaciones}]}{\log(\text{Población})} = e^{B_0 + \text{mediano} + \text{Peñón} + \text{edad 2}}$$

$$X \sim \text{Poi}\left(\frac{\lambda_j}{n_j}\right)$$

$$P(X=50)$$

$$P(X \sim \text{Poisson}\left(\frac{E(\text{Recl})}{\log(1000)} = 50\right))$$

