Sea
$$Y = aX + b + q y_i = ax_i + b$$

+ residuos: $ax_i + b + \varepsilon_i$

$$\mathcal{E}_{i} = y_{i} - \hat{y}_{i} \implies \text{valor estimado}$$

$$\mathcal{E}_{i} = \mathcal{E}_{i} = \mathcal{E$$

Derivadas parciales sobre a y b:

$$(Ca,b) = \sum_{i=1}^{k} \sum_{j=1}^{p} f_{ij} \left[y_{i} - Cbx_{i} + a \right]^{2}$$

$$\sum_{i=1}^{K} \sum_{j=1}^{K} f_{ij} C_{ij} - b_{x_{i}} - a) \chi(A) = 0$$

$$\sum_{i=1}^{K} \sum_{j=1}^{K} f_{ij} C_{ij} - b_{x_{i}} - a) = 0$$

$$\sum_{i=1}^{K} \sum_{j=1}^{K} f_{ij} C_{ij} - b_{x_{i}} - a = 0$$

$$\sum_{i=1}^{K} \sum_{j=1}^{K} f_{ij} b_{x_{i}} - a = 0$$

$$\sum_{i=1}^{K} \sum_{j=1}^{K} f_{ij} b_{x_{i}} - a = 0$$

a: moi - bmio 0

$$\sum_{i=1}^{n} \int_{i=1}^{n} Cy_{i} - bx_{i} - a \times y_{i} \cdot y_{i} \cdot y_{i} = 0$$

$$\sum_{i=1}^{n} \int_{i=1}^{n} x_{i} \cdot y_{i} - b \times \sum_{i=1}^{n} \int_{i=1}^{n} x_{i}^{n} - a \times \sum_{i=1}^{n} \int_{i=1}^{n} x_{i} = 0$$

$$m_{i,i} - b m_{i,0} - a m_{i,0} = 0$$

$$a = \frac{m_{i,i} - b m_{i,0}}{m_{i,0}} \quad \textcircled{2}$$

Con la expressión
$$O$$
 y O :
$$\frac{m_{\parallel}-bm_{20}}{m_{10}}=m_{01}-bm_{10}$$

$$m_{11} - bm_{20} = m_{01}m_{10} - bm_{10}^{2}$$
 $Cm_{20} - m_{10}^{2}b = (m_{11} - m_{01}m_{10})$

$$b = \frac{\sigma_{xy}}{\sigma_{x}^{2}} = a = m_{01} - bm_{10} = y - \frac{\sigma_{xy}}{\sigma_{x}^{2}} = m_{01}^{2}$$