



$$a_0^1 = \varphi \left(\underset{\substack{\uparrow \\ \text{F. Activación}}}{w_{0,0} a_0^0 + w_{0,1} a_1^0 + \dots + w_{0,n} a_n^0} + \underset{\substack{\nearrow \\ \text{Bias}}}{b_0} \right)$$

$$\varphi \left(\begin{bmatrix} w_{0,0} & w_{0,1} & \cdots & w_{0,n} \\ w_{1,0} & w_{1,1} & \cdots & w_{1,n} \\ \vdots & \vdots & \ddots & \vdots \\ w_{m,0} & w_{m,1} & \cdots & w_{m,n} \end{bmatrix} \begin{bmatrix} a_0^0 \\ a_1^0 \\ \vdots \\ a_n^0 \end{bmatrix} + \begin{bmatrix} b_0 \\ b_1 \\ \vdots \\ b_n \end{bmatrix} \right)$$

$$(W a^0 + \mathbf{b})$$