

$$\frac{\partial E}{\partial b^{(j)}} = \frac{\partial E}{\partial b^{(j)}} \frac{\partial O^{(k)}}{\partial o^{(j)}} \frac{\partial O^{(j)}}{\partial b^{(j)}} = \frac{\partial O^{(k)}}{\partial b^{(j)}} \frac{\partial O^{(k)}}{\partial b^{(j)}} \frac{\partial O^{(k)}}{\partial b^{(j)}} = \frac{\partial O^{(k)}}{\partial b^{(j)}} \frac{\partial O^{(k)}}{\partial b^{(k)}} \frac{\partial O^{(k)}}{\partial b^{$$

New Wij = $O(d \text{ Wij} - \Omega \cdot \frac{\partial E}{\partial \text{wij}})$ New NJK = $O(d \text{ Wik} - \Omega \cdot \frac{\partial E}{\partial \text{wij}})$ New by = $O(d \text{ by} - \Omega \cdot \frac{\partial E}{\partial \text{by}})$ New bk = $O(d \text{ bk} - \Omega \cdot \frac{\partial E}{\partial \text{bk}})$