$$A \cdot (1 + e^{u_i}) = e^{u_i}$$

$$A = e^{u_i} - A \cdot e^{u_i}$$

$$A = e^{u_i} \cdot (1 - A)$$

$$A = e^{u_i} \cdot (1 -$$

 $G = \frac{1}{m} \sum_{\alpha} \alpha_{\alpha} (s = 1) u_{\alpha} - log(1 + e^{u_{\alpha}}) \longrightarrow u_{\alpha}e^{u_{\alpha}}$ 

 $\frac{\partial G}{\partial u_i} = \frac{1}{m} \sum_{\ell=1}^{m} \alpha_{\ell} (\ell = 1) - \frac{e^{u_i}}{1 + e^{u_i}} = 0$