Log-Linear Model (2)

As before, the constant denominator not needed in maximization:

$$\begin{aligned} \hat{e}_1^{\hat{I}} &= \text{argmax}_{I,e_1^I} \frac{\exp(\sum_{m=1}^{M} \lambda_m h_m(e_1^I, f_1^J))}{\sum_{e'^{I'}_1} \exp(\sum_{m=1}^{M} \lambda_m h_m(e'^{I'}_1, f_1^J))} \\ &= \text{argmax}_{I,e_1^I} \exp(\sum_{m=1}^{M} \lambda_m h_m(e_1^I, f_1^J)) \end{aligned} \quad (10)$$