

$$P(\mathbf{Q} = \mathbf{q} | \mathbf{E} = \mathbf{e}) = \frac{\exp\left(\sum_{f_i \in \mathcal{F}} w_i n_i(\mathbf{q}, \mathbf{e})\right)}{\sum_{\mathbf{q}'} \exp\left(\sum_{f_i \in \mathcal{F}} w_i n_i(\mathbf{q}', \mathbf{e})\right)}$$