

$$\mathbb{P}(w_c \mid w_{o_1}, \dots, w_{o_{2m}}) = \frac{\exp\left(\frac{1}{2m} \mathbf{u}_c^\top (\mathbf{v}_{o_1} + \dots + \mathbf{v}_{o_{2m}})\right)}{\sum_{i \in \mathcal{V}} \exp\left(\frac{1}{2m} \mathbf{u}_i^\top (\mathbf{v}_{o_1} + \dots + \mathbf{v}_{o_{2m}})\right)}$$