



*Baseline 1:*

$$U(a_m' \mid x_1, \dots, x_n; \theta) = \theta_{(x_1, \dots, x_n, a_m')}$$

*Baseline 2:*

$$U(a_m' \mid x_1, \dots, x_n; \theta) = \sum_{i=1}^n \theta_{(x_i, a_m')}$$

**vs**

