



Baseline 1:

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

Baseline 2:

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

vs

