$$\mathbf{a}^* = \arg \max_{\mathbf{a} \in [0,1,...,n]^m} p(\mathbf{a} \mid \mathbf{e}, \mathbf{f})$$

$$= \arg \max_{\mathbf{a} \in [0,1,...,n]^m} \frac{p(\mathbf{e}, \mathbf{a} \mid \mathbf{f})}{\sum_{\mathbf{a}'} p(\mathbf{e}, \mathbf{a}' \mid \mathbf{f})}$$

$$= \arg \max_{\mathbf{a} \in [0,1,...,n]^m} p(\mathbf{e}, \mathbf{a} \mid \mathbf{f})$$