$$\{\langle \mathbf{e}_i^*, \mathbf{a}_i^* \rangle\}_{i=1}^{i=K} = \arg i^{\text{th}}\text{-}\max_{\langle \mathbf{e}, \mathbf{a} \rangle} \mathbf{w}^\top \mathbf{h}(\mathbf{g}, \mathbf{e}, \mathbf{a})$$