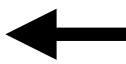
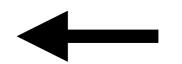
Goal-sensitive answer



Goal inference



Expected questioner behavior

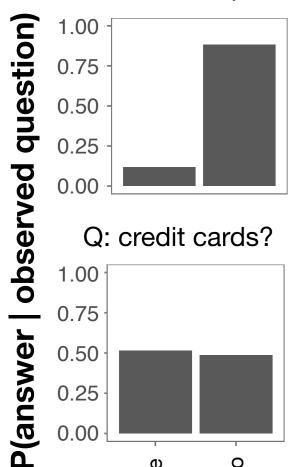
$$U_{A_2}(a;q,w) = \sum_{g \in \mathcal{G}} P(g|q) \widehat{P_I^g}(w|a)$$

$$P(g|q) \propto P_{Q_1}(q|g)P(g)$$

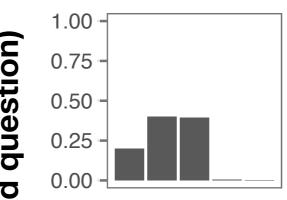
 $P_{Q_1}(q|g) \propto \exp\left\{\alpha \mathbb{E}_{P(a|q)}[IG^g(a,q)]\right\}$

Goal: only AmEx

Q: American Express?

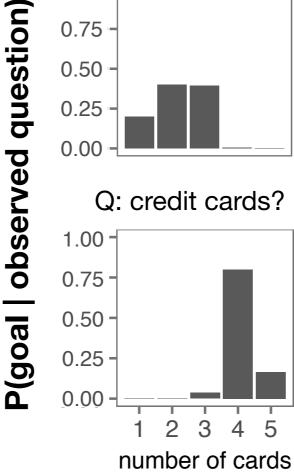


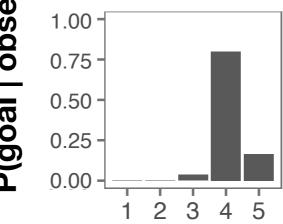
Q: American Express?



1.00 0.75 true goal 0.50 0.25 0.00







Goal: all 5 cards P(question | 1.00 0.75

