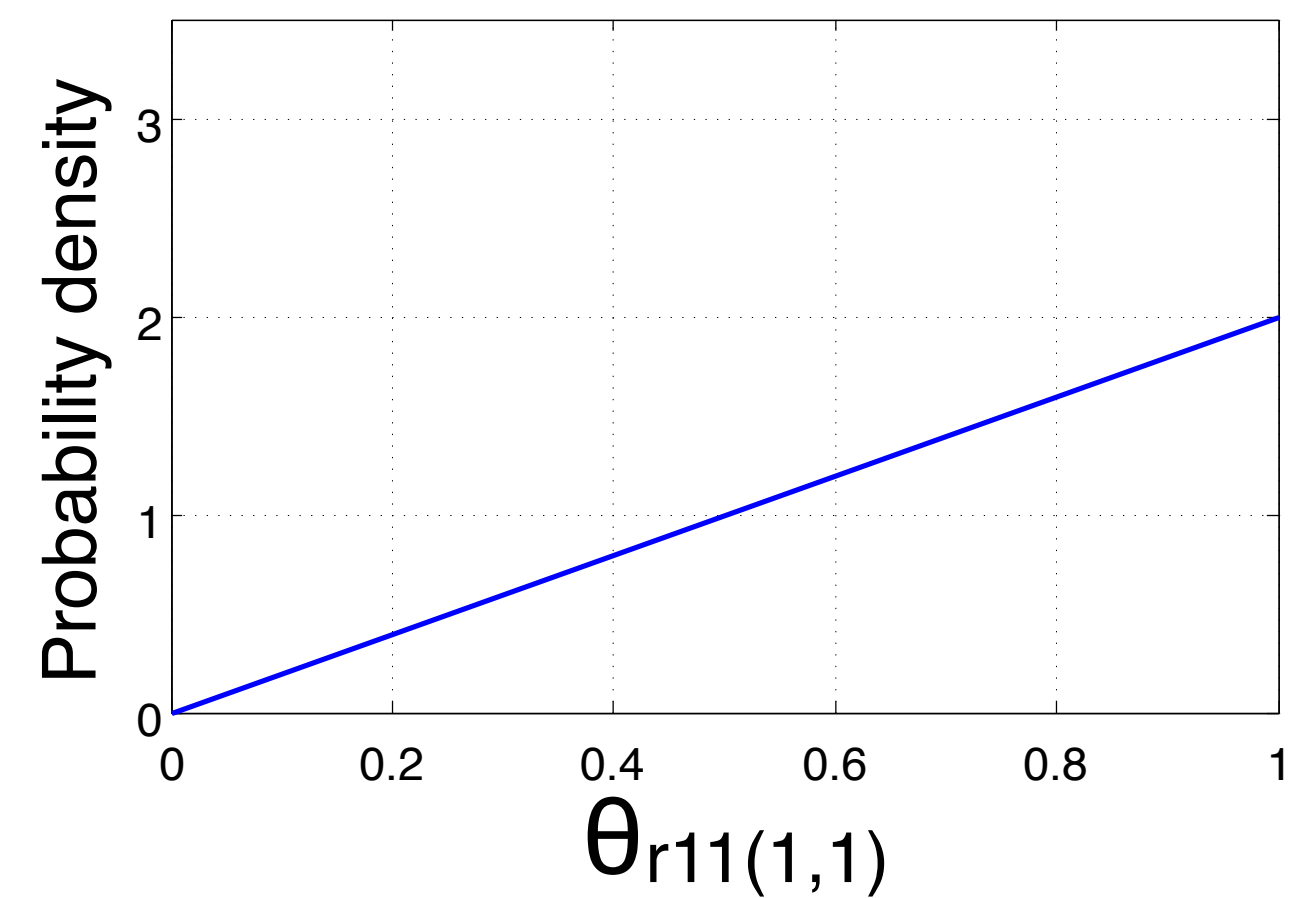
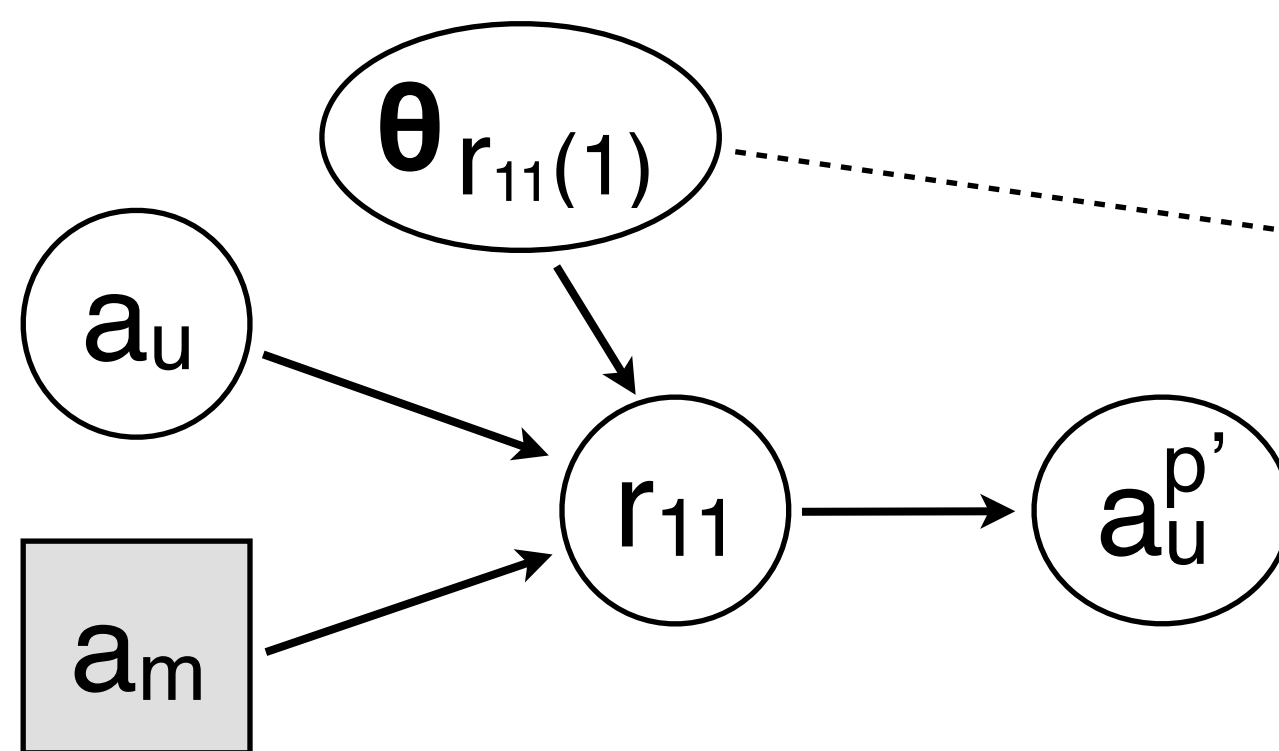


$$P(a_u = \text{Request}(\text{Forward})) = 0.6$$

$$P(a_u = \text{Request}(\text{Backward})) = 0.4$$

$a_m = \text{AskRepeat}$

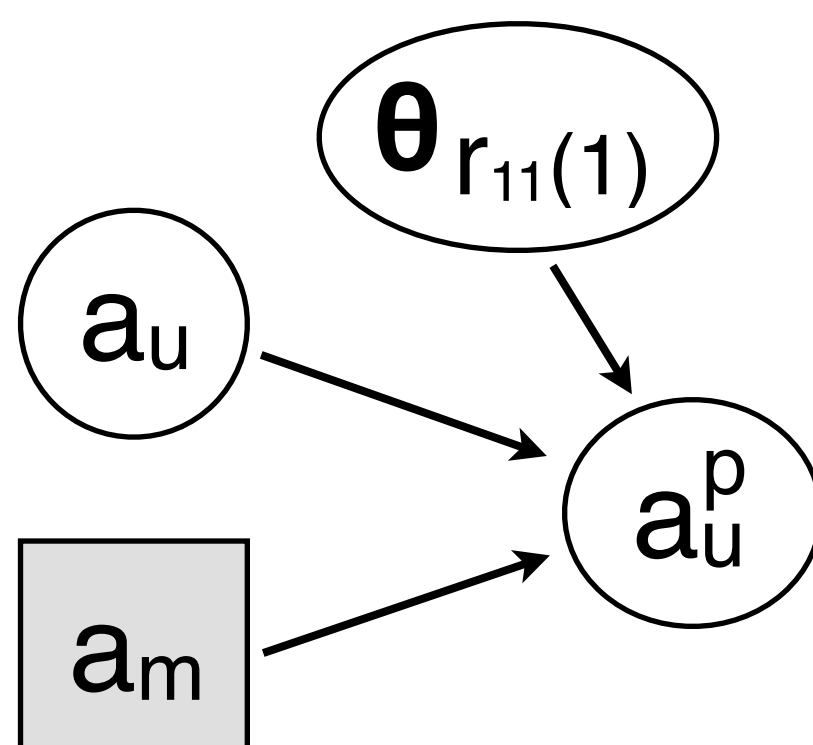


Step 1: triggering rule r_{11}

$$P(a_u = \text{Request}(\text{Forward})) = 0.6$$

$$P(a_u = \text{Request}(\text{Backward})) = 0.4$$

$a_m = \text{AskRepeat}$

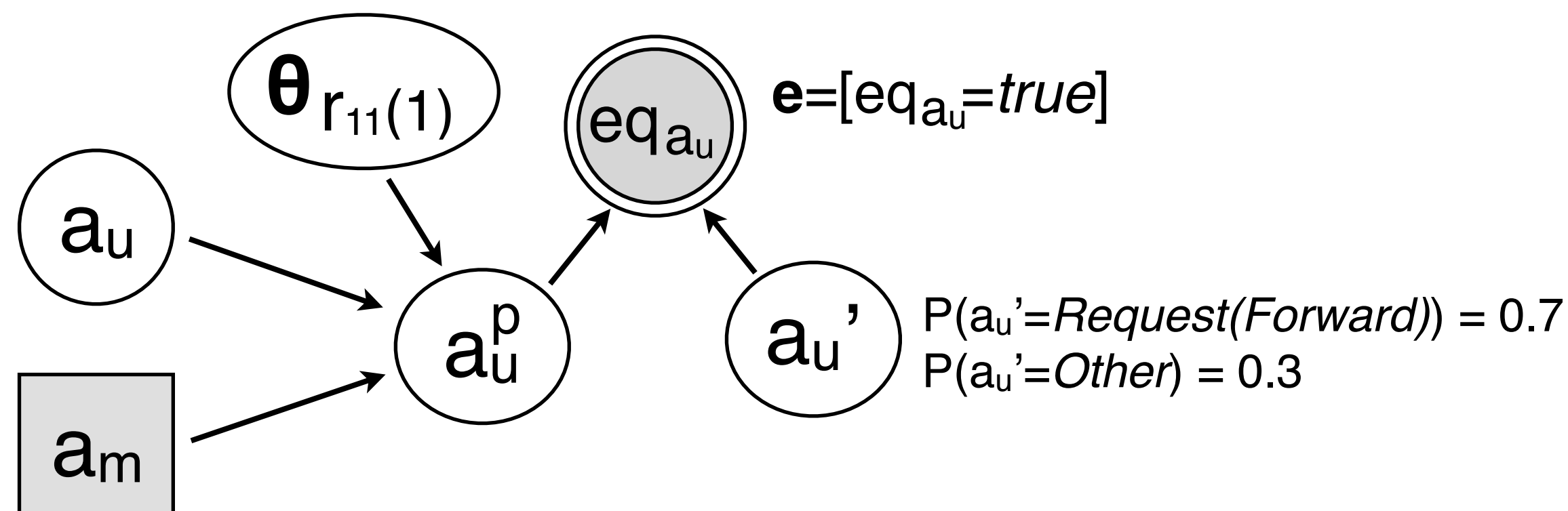


Step 2: after pruning

$$P(a_u = \text{Request}(\text{Forward})) = 0.6$$

$$P(a_u = \text{Request}(\text{Backward})) = 0.4$$

$a_m = \text{AskRepeat}$

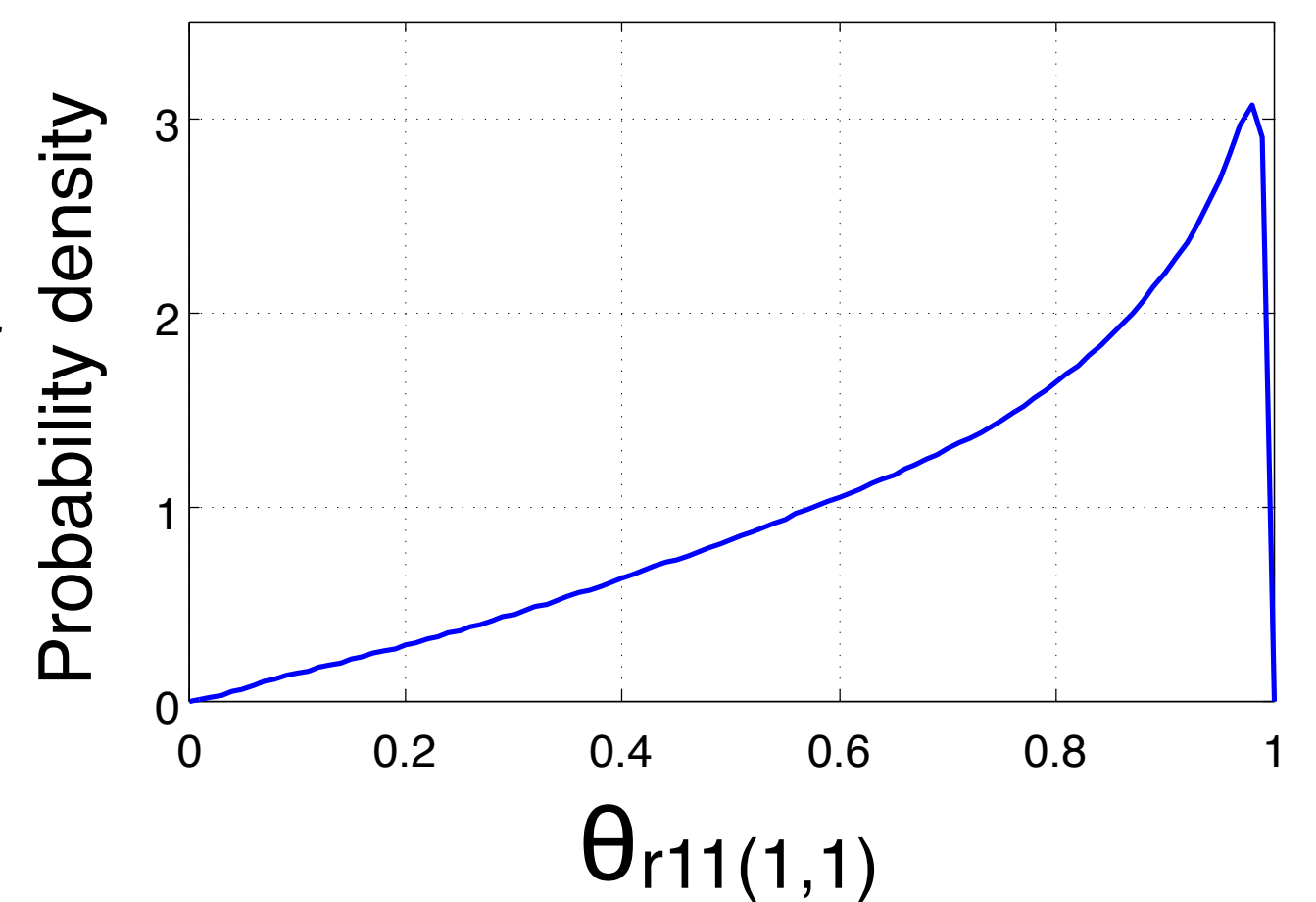
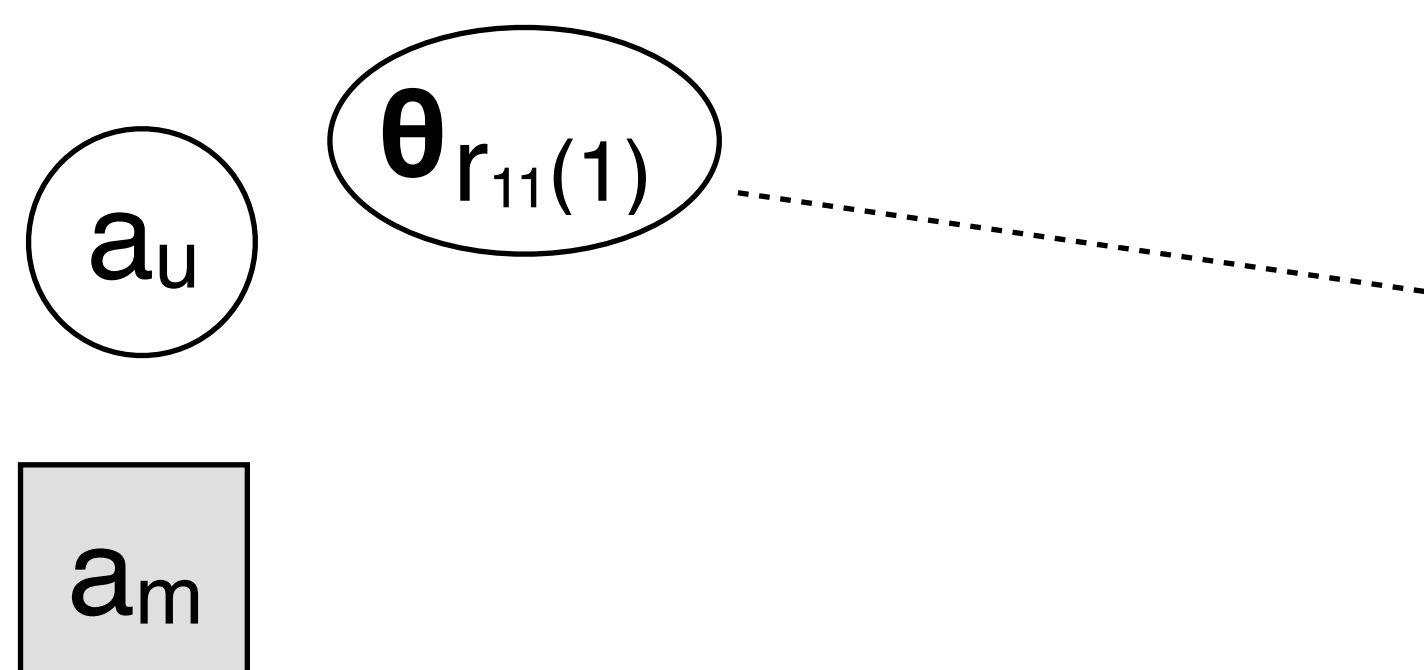


Step 3: upon observation of new user input

$$P(a_u = \text{Request}(\text{Forward})) = 0.94$$

$$P(a_u = \text{Other}) = 0.06$$

$a_m = \text{Move}(\text{Forward})$



Step 4: after pruning and integration of evidence