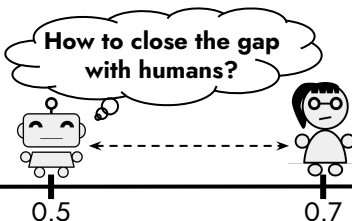


Task
performance



Bounded pragmatic agent

Repeat K times

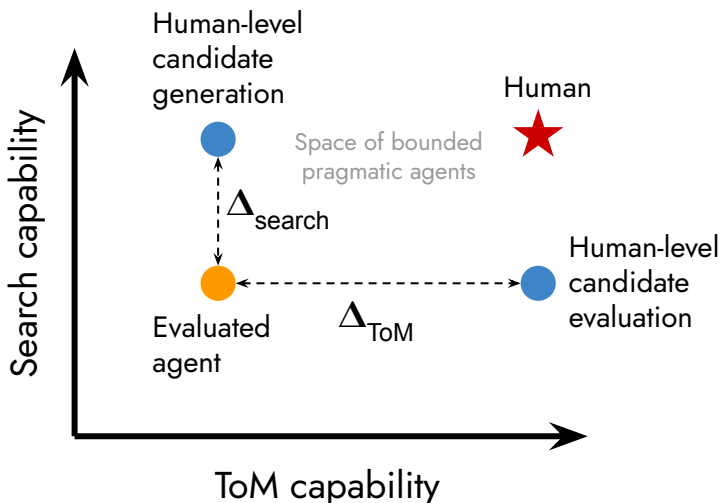
(i) Generate candidate (**search** capability)

$$u_i \sim S_{\text{base}}$$

(ii) Evaluate candidate (**ToM** capability)

$$\text{score}(u_i) = L_{\text{ToM}}(e^* \mid u_i)$$

Return $\arg\max_{u \in D} \text{score}(u)$, $D = \{u_1, \dots, u_K\}$



Recommendation:

- Large Δ_{search} , small Δ_{ToM} \Rightarrow improve inference algorithm
- Large Δ_{ToM} , small Δ_{search} \Rightarrow enhance planning module