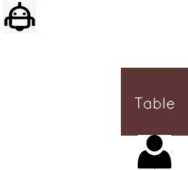


Learning Socially Appropriate Robo-waiter Behaviours through Real-time User Feedback

Supplementary Data and Results

I. DATA COLLECTION

Image 1



If a robot waiter was serving your table, how would you rate their position shown in Image 1? *

1 2 3 4 5

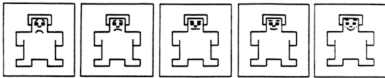
Very Inappropriate Inappropriate Neutral Appropriate Very Appropriate

1 2 3 4 5

Very Inappropriate Very Appropriate

If a robot waiter was serving your table, how would their position in Image 1 make you feel? *

1 2 3 4 5




Unhappy Neutral Happy

1 2 3 4 5

Unhappy Happy (satisfied, pleasant, positive)

If a robot waiter was serving your table, how would their position in Image 1 make you feel? *

1 2 3 4 5



Calm Neutral Stressed/Excited

1 2 3 4 5

Calm Excited (stressed, agitated, aroused)

Fig. 1: An example of the questions asked to the participants in the online survey for data collection.

II. HRI USER-STUDY

A. Implicit Feedback across Conditions

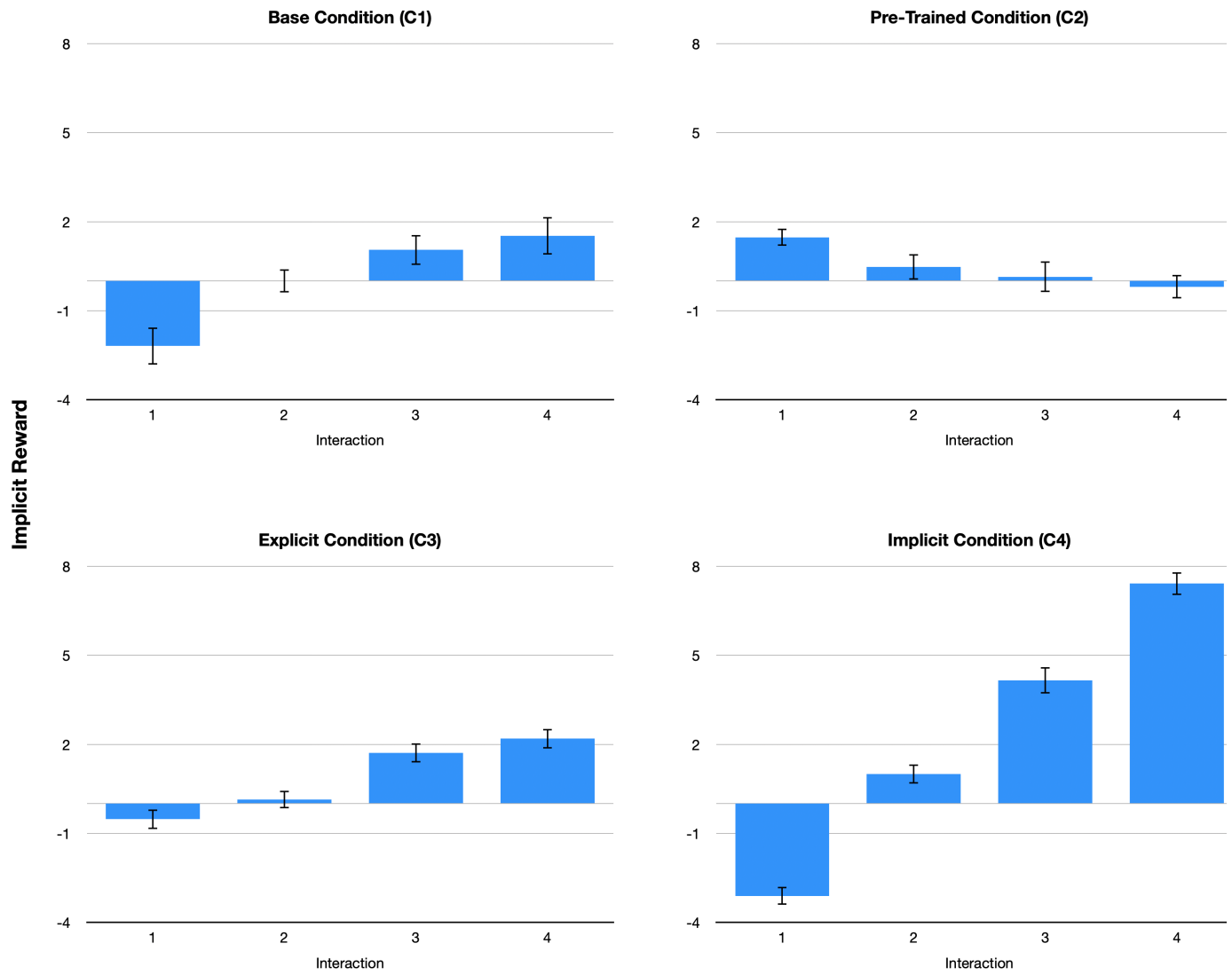


Fig. 2: Implicit feedback captured across the 4 tasks for each experiment condition. Implicit feedback is used to update the robot behaviour only in C4.

B. Explicit Feedback across Conditions

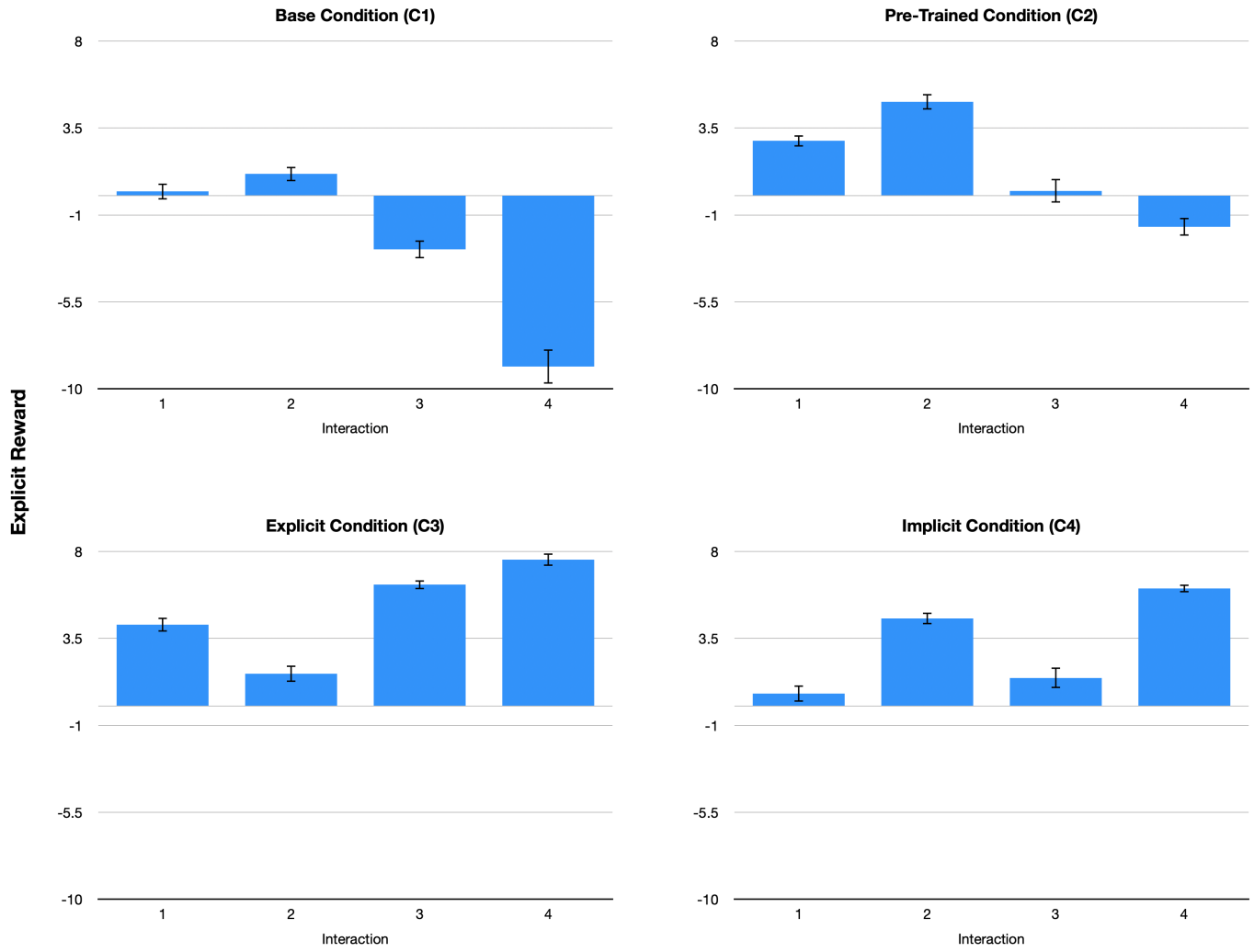


Fig. 3: Explicit feedback captured across the 4 tasks for each experiment condition. Explicit feedback is used to update the robot behaviour only in C3.