Partner Selection and Person Perception in Social Interactions

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1 Introduction

Selecting whom to collaborate with is an important task that humans are faced with on a daily basis. Formally, partner selection is leveraging on the individual's ability to autonomously identify and preferentially interact with social partners that are see as valuable, creating an emerging phenomena of biological markets (Noe & Hammerstein, 1995), where individuals who are willing (i.e. warmth) and able (i.e. competence) to work towards a mutual benefit are seen as most valuable, and thus chosen as partners Barclay, 2013; 2016; Dhaliwal et al., 2022). However, this decision does not happen in a vacuum. Thus, partner selection can be seen as a multiple evaluation criteria decision making process, where context, impressions, interlocutors' behavior have a role in guiding one's decisions. Despite the multiple criteria and potential noise, if informed by well-calibrated information, gives individuals advantage of creating a (local) niche of highly valuable (i.e. cooperative) individuals, where cooperation is fostered while keeping the risk of exploitation at a minimum. Despite recognizing the importance of partner selection, little is know about if we can use (and which) behavioral cues to predict person perceptions and partner selection, whether inferred perceptions correspond to how other see themselves, as well as the interdependendencies between partner selection, person perceptions and cooperative behavior. Thus, the goal of this paper is to address these gaps.

2 Objective

The aim of this paper is to investigate:

- Is there a relationship between partner selection, person perception and cooperative behavior and does Task Type moderate this relationship?
- Is there a relationship between how people see themselves and how they are seen by others?
- Can we use automatically extracted social cues from initial social interactions to predict person perception and partner selection?

3 Methodology

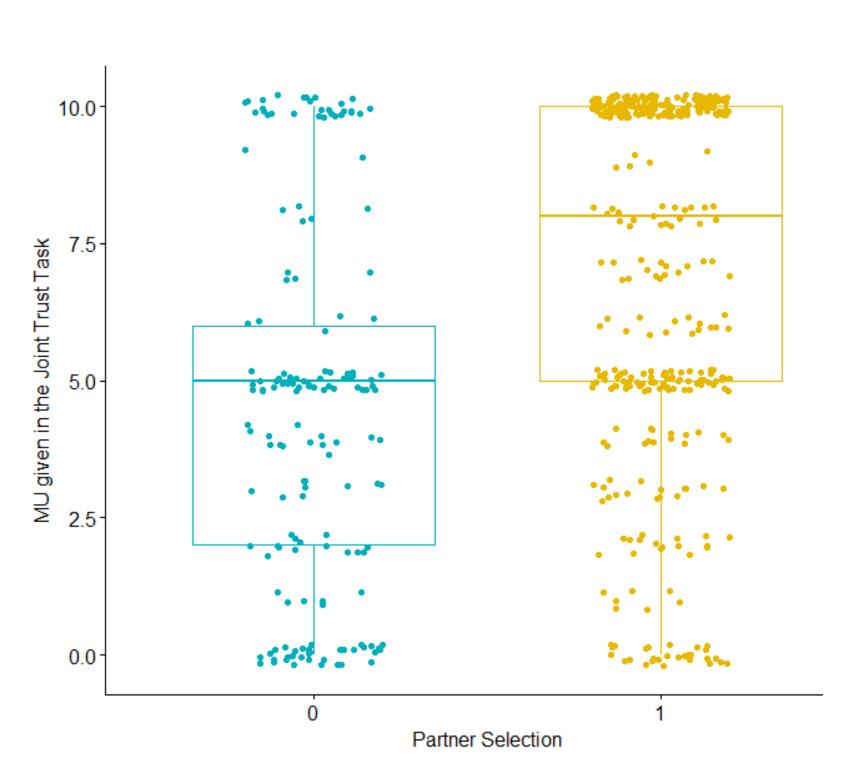
Participants

- N = 279 participant (154 females; *M* = 36.64; *SD* = 11.05)
- 596 dyads. 3387 observations

4 Analysis

The general results of this paper, indicate that:

- Likelihood of being selected was higher for individuals that were perceived to be as higher on warmth and competence
- Task type moderated this effect, where perceived competence was more strongly related to one's odds to be selected as a partner in the JCT, compared to JTT
- Self-reports of Extraversion were predictive of other's perception of warmth
- Intelligence scores were predictive of other's perception of competence



• Individuals showed more trust in selected participants, compared to un-selected participants

Future work (Behavioral cues)

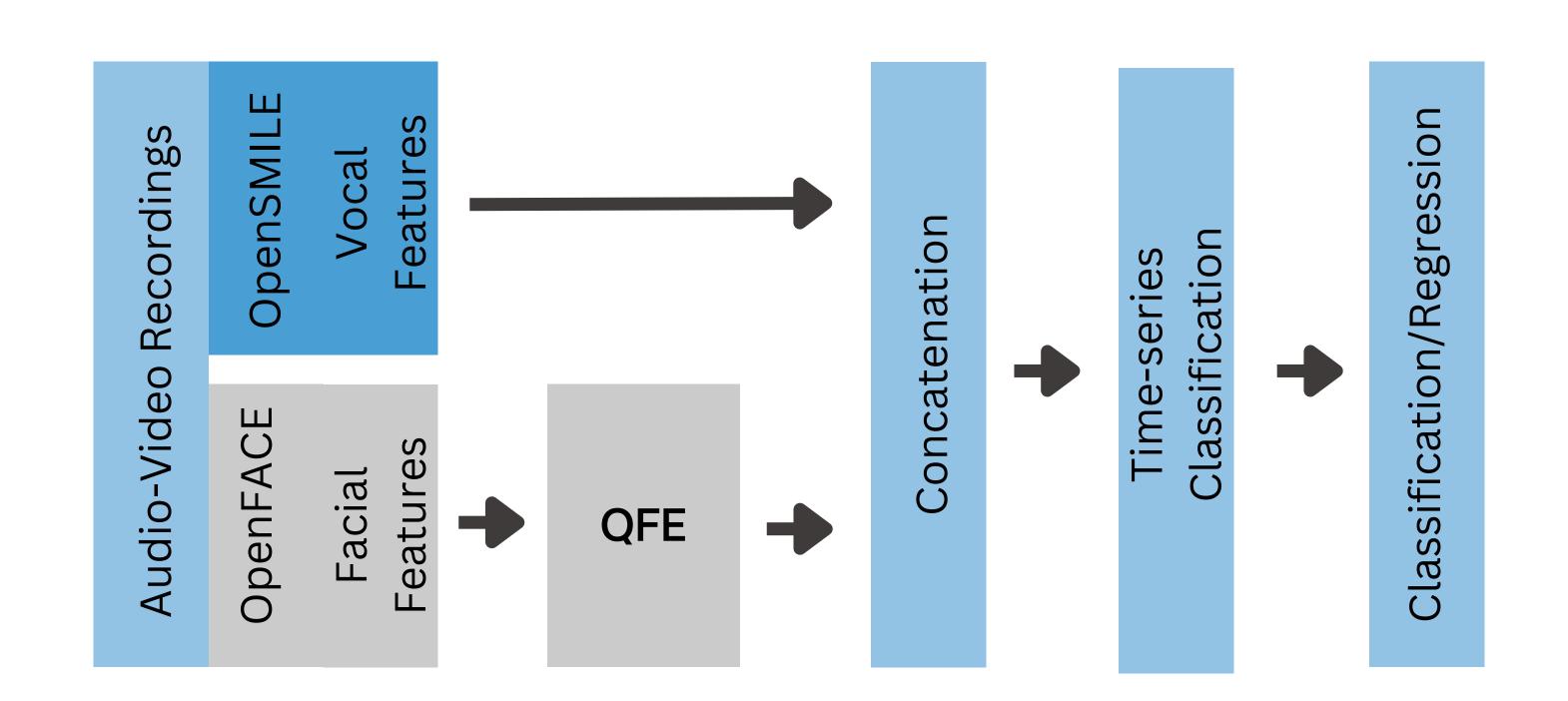


Figure 2.Overview of the predictive modelling pipeline

First part: Intake Session

Second part: Interaction Study - Round Robin

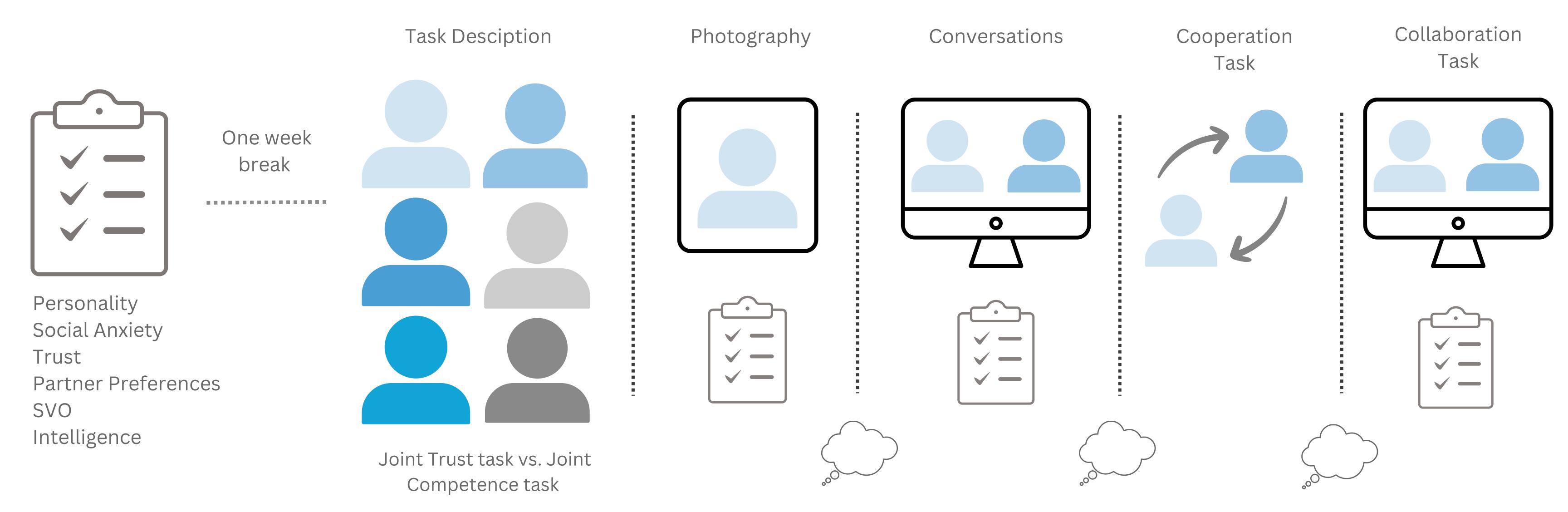


Figure 1. Overview of the experimental design of the PACO dataset collected on Prolific





