Spontaneous Perspective-Taking and Psychopathic Traits

- Callie Jones
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- Dr. Rebecca Waller
 Department of Psychology

Introduction

- Perspective-taking (i.e., Theory of Mind): understand situation, beliefs, or intentions of others
- Cognitive perspective-taking: elaborated and complex system that allows for understand of others' mental states.
- Spontaneous visual perspective-taking: unconscious tracking of where people and objects are in space.
- * Evidenced by: dot perspective-taking task (Fig 1) where number of dots a participant sees is the same (consistent) or different (inconsistent) to an avatar with two trial types:
 - > Self: verify number = what they can see
- > Other: verify number = what avatar can see
- Prior research: people react slower to inconsistent-other trials: i.e., spontaneously process other people's perspective
- ❖ Debate: tasks assesses attention to directional cues because effect also emerges using an (non-social) arrow
- ❖ Prior studied are limited: (1) small sample sizes of undergraduates; (2) repeated-measures designs with participants primed by completing both avatar and arrow conditions; (3) not matching avatar to participant on race.

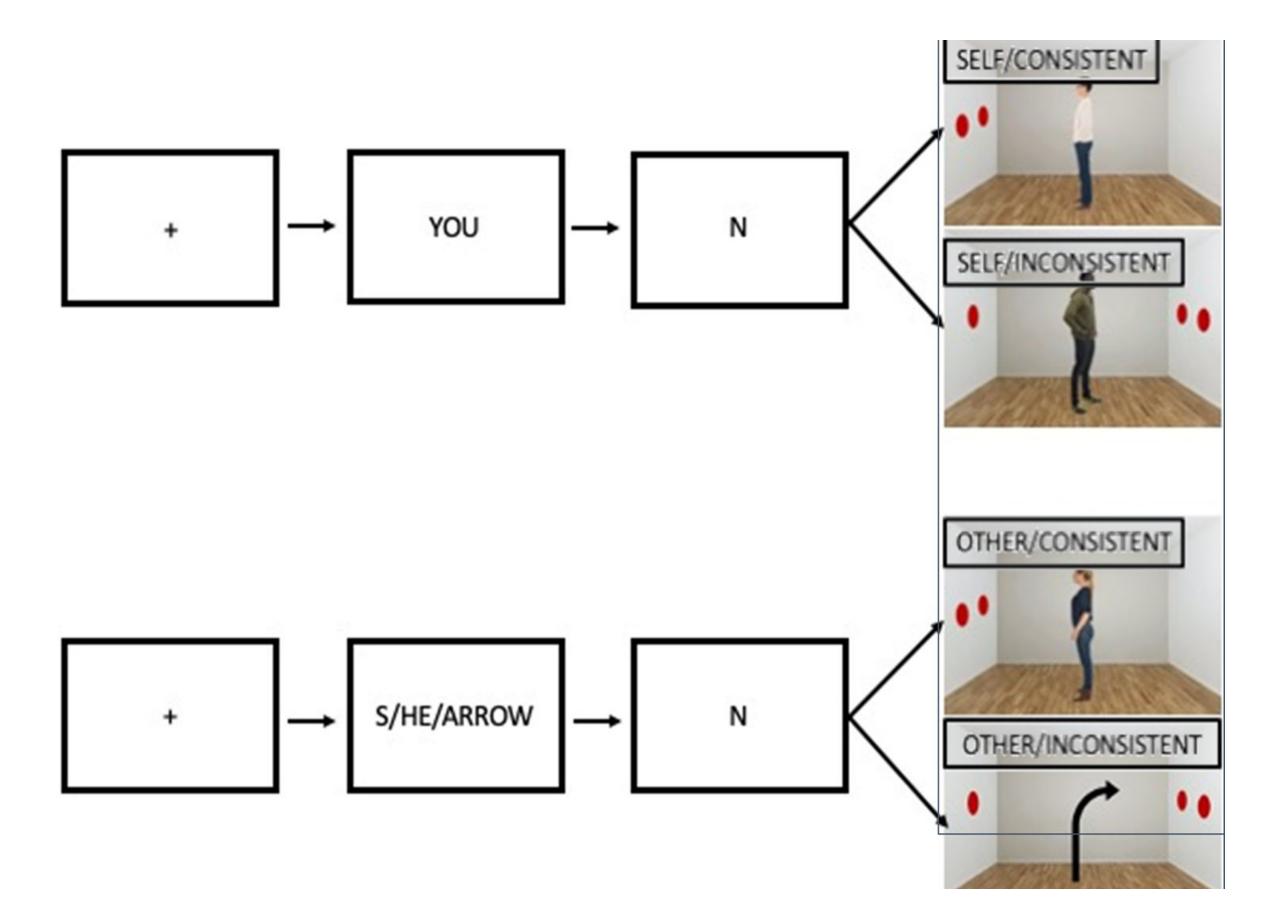


Figure 1: Experimental Paradigm





Investigating the Operationalization of Spontaneous Perspective-Taking to Inform our Understanding of Psychopathic Traits

Introduction (Cont.)

- ❖ Psychopathy is characterized by <u>Factor 1:</u> deficits in empathy and guilt, conning, and manipulativeness; <u>Factor 2:</u> impulsive, irresponsible, and antisocial behaviors
- ❖ One prior study found that incarcerated psychopaths showed less interference by the avatar's perspective thought to explain deficits in guilt and empathy (Drayton et al., 2018).
- * The current study investigated the arrow versus avatar operationalization of spontaneous perspective-taking and further explored whether perspective-taking deficits were related to psychopathic traits in a community sample.

Methods

- Participants (N=440) recruited in the US via MTurk
- Completed dot perspective task and allocated to an arrow (non-social) or avatar condition. The avatar was matched to the participant on race and gender.
- Psychopathic traits were assessed via the Self-Report Psychopathy (Neumann & Pardini, 2012).

Analytic Strategy

- ❖ Excluded trials that were: incorrect, timed-out, RT <200ms, or > 3SD from participant's mean correct response for that trial type.
- ❖ Removed participants > 20% of trials excluded
- ❖ General linear models (GLM) to test whether: (1) perspective and consistency predicted RT; (2) interference type (i.e., own vs. avatar/arrow perspective) predicted RT; (3) psychopathic traits and interference type were related.

Hypotheses

- Hyp 1: There will be significant effect of consistency on RT (i.e., participants faster for consistent vs. inconsistent trials), but only for avatar, not arrow, condition
- * Hyp 2: Higher psychopathic traits will be related to faster RT on "other" trials. That is, higher psychopathic traits will be related to less interference by the avatar's perspective. This effect will be specific to the avatar, not the arrow, condition