

Effects of Real-World Social Group Status on Incidental Learning of Trust

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Introduction

Gaze cues lead to automatic, reflexive reorienting of attention

Consistently invalid gaze cues leads to faces being rated as less trustworthy than other faces that consistently cue correct location [1]

No evidence of how identity may affect trust learning - perhaps pre-existing expectations change how we infer trust from gaze cues

Social group membership (e.g. race) can provide a powerful manipulation for asking this question, as race has been shown to affect face memory [2]

This study uses both in-group (White) and out-group (Asian) faces to investigate the effect of racial group membership on incidental learning of trustworthiness

Method

Experiment 1

N = 30 (White, 23 female, $M_{age} 22.23$)

Gaze cueing using White and Asian faces

Stimuli: MR2 face database [3] selected according to matched trust ratings

Factors: Racial group (In-Group/Out-Group), Validity (Valid/Invalid), Time (Pre-/Post-Experiment)

Experiment 2

As above.

N = 19 (White, all female, $M_{age} 20.14$)

Run with electromyography (not reported)

Data analysis

Linear mixed models

M_{null} <- Rating ~ (Subject Error) + (Stimulus Error) + (MRE)

M_{time} <- Rating ~ Time + (null)

M_{valid} <- Rating ~ Validity + (null)

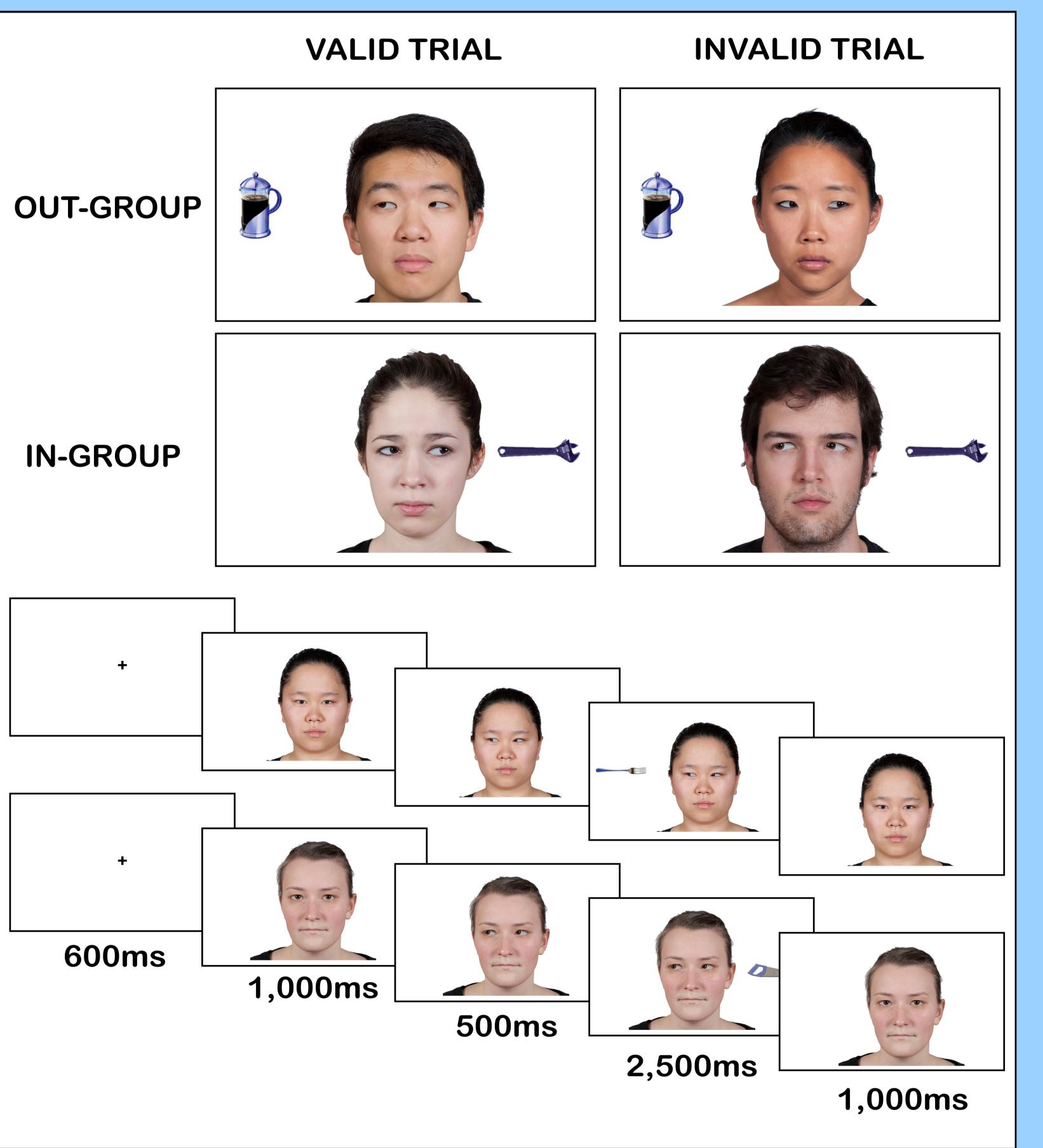
M_{race} <- Rating ~ Race + (null)

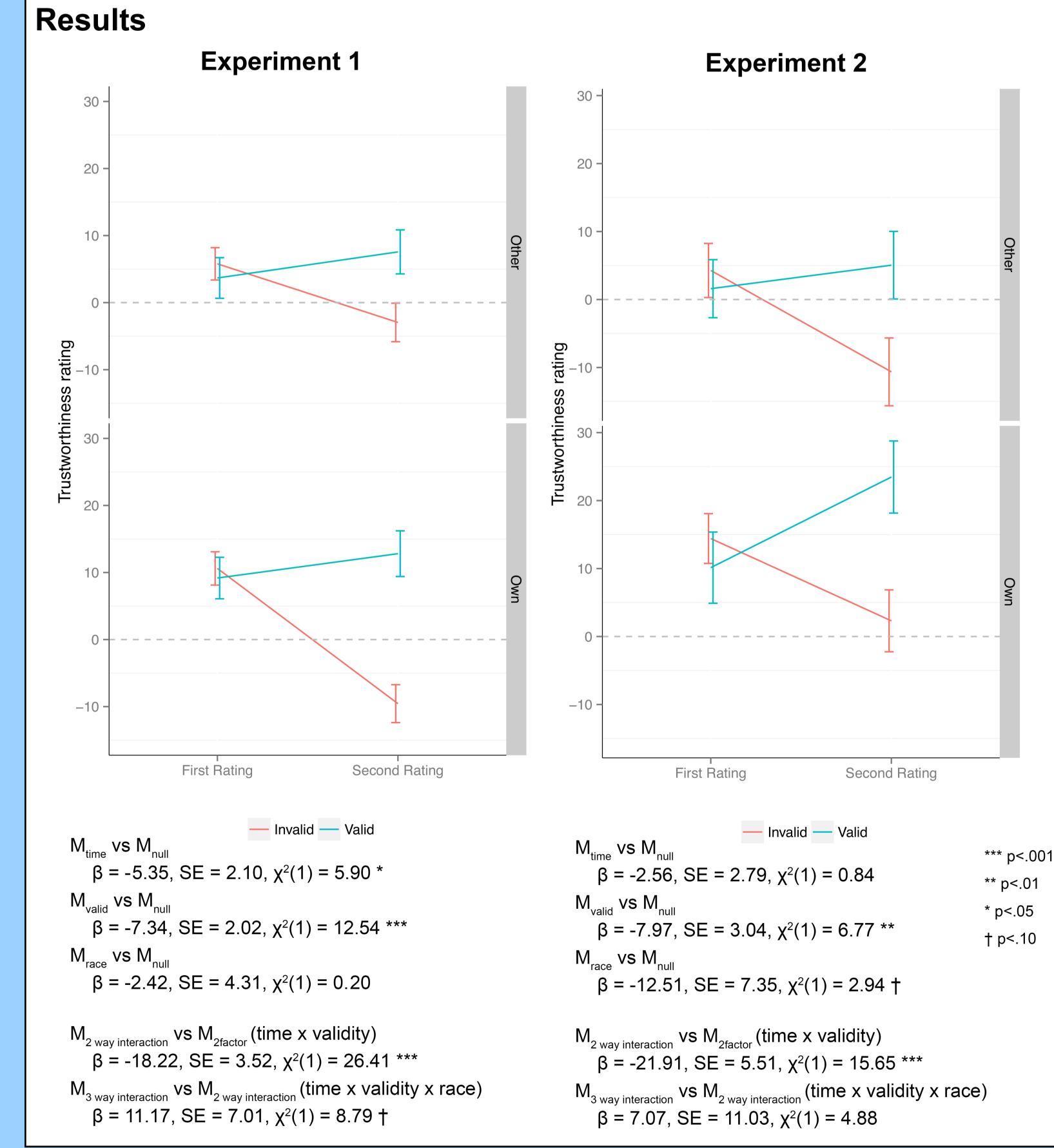
M_{2factor} <- Rating ~ Time + Validity + (null)

M_{2 way interaction} <- Rating ~ Time * Validity + (null)

M_{3 way interaction} <- Rating ~ Time * Validity * Race + (null)

anovas to compare M_{time} , M_{valid} and M_{race} with M_{null} , $M_{\text{2 way interaction}}$ with $M_{\text{2 lactor}}$ and $M_{\text{3 way interaction}}$ with $M_{\text{2 way interaction}}$





Conclusions

Incidental learning of trust from gaze cues does not appear to differentiate between racial groups

No evidence of own-race bias in trust learning, which is interesting in light of literature on out-group homogeneity and expectations of in-group members. Fits with some previous data indicating initial trustworthiness does not affect incidental learning from gaze cues [4] - possible implications for how incidental trust learning may be insensitive to pre-existing expectations of co-operation

References