

Creativity Influences the Visual Perspective of Autobiographical Memories

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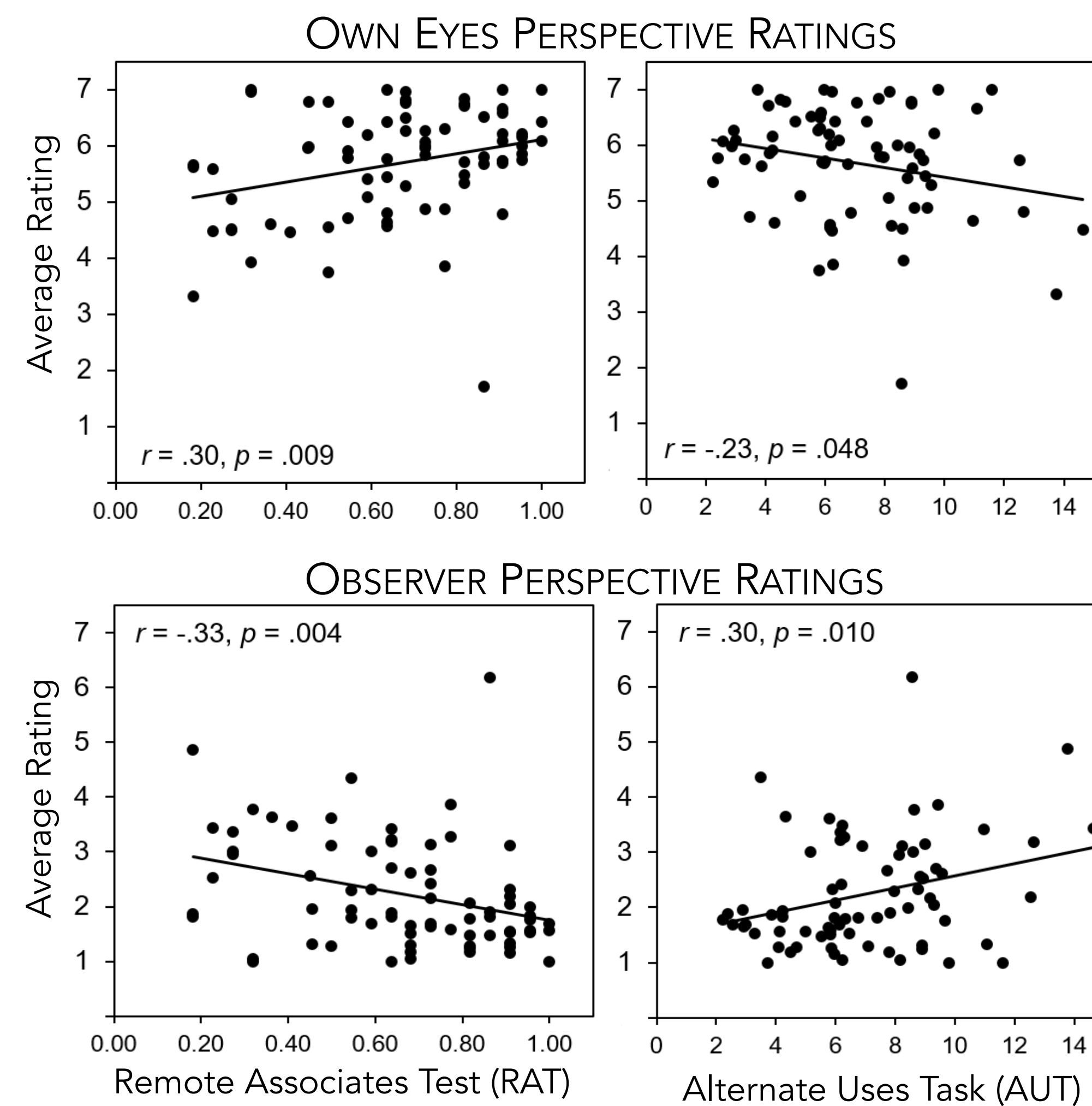
INTRODUCTION

Own Eyes Perspective Observer-Like Perspective



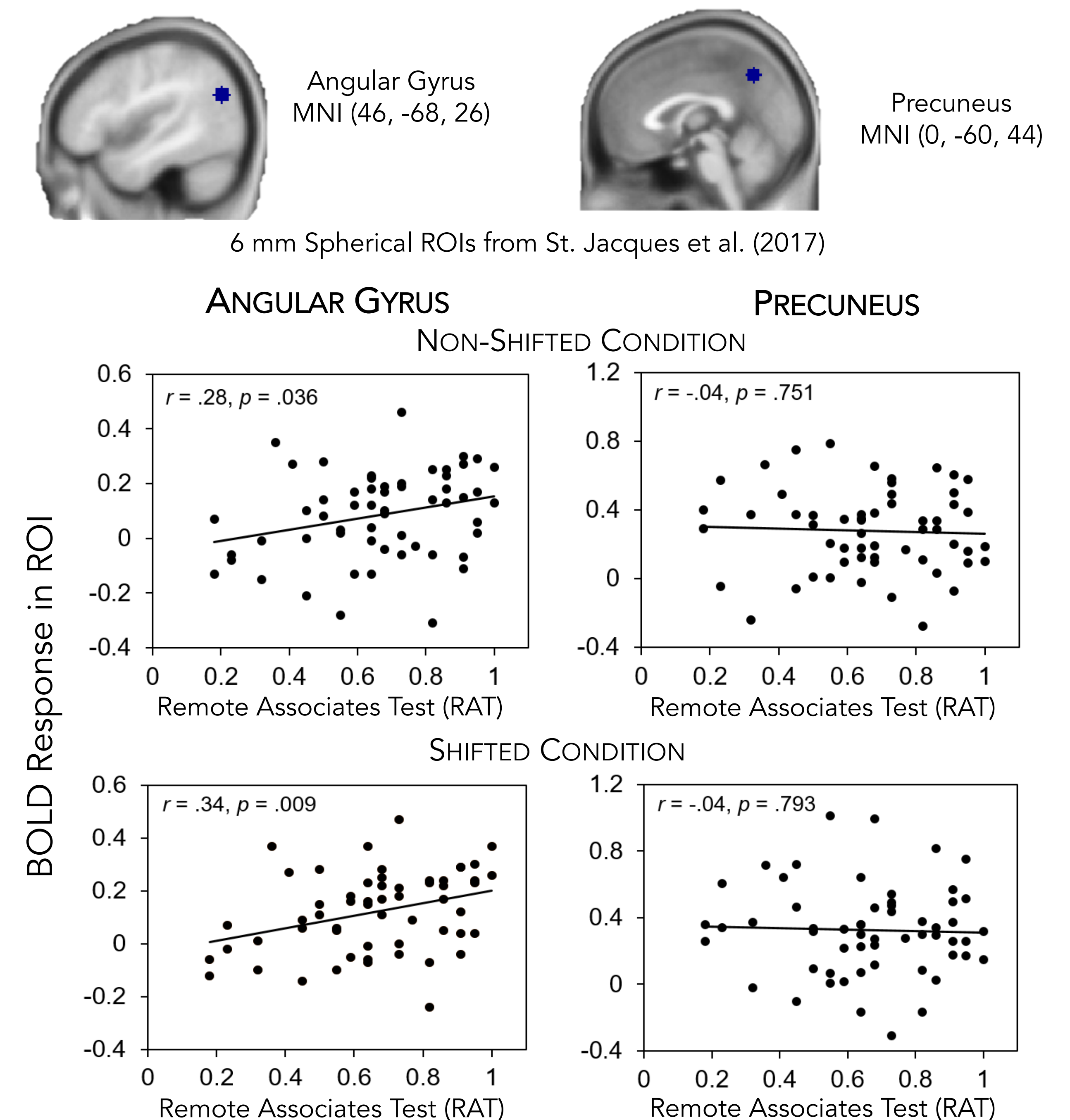
- Autobiographical memories (AM) are retrieved from own eyes and observer-like visual perspectives.¹
 - There is individual variability in visual perspective abilities during retrieval.²
 - Creativity supports the constructive nature of episodic retrieval,³⁻⁴ and has been linked to recruitment of precuneus⁵ and angular gyrus.⁶
- Is creativity related to individual differences in visual perspective during AM retrieval?

NATURALLY ADOPTED PERSPECTIVES



RAT and AUT were significantly related to average perspective ratings, but in the opposite direction

REGION OF INTEREST ANALYSES

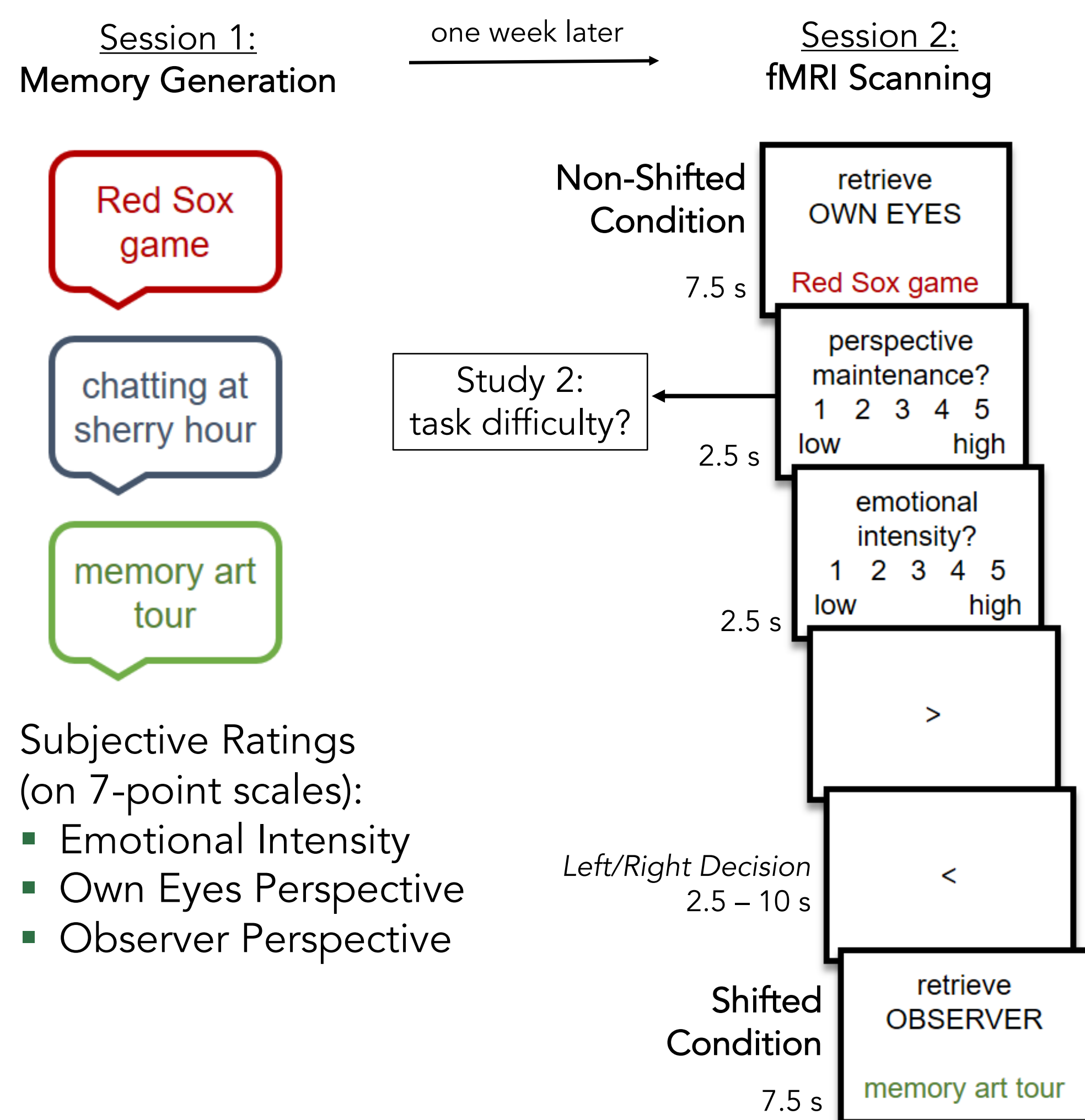


RAT was positively related to BOLD response in angular gyrus during retrieval in both conditions.

AUT was not related to BOLD response in angular gyrus or precuneus.

METHODS

Data combined from St. Jacques et al. (2017, 2018)⁷⁻⁸

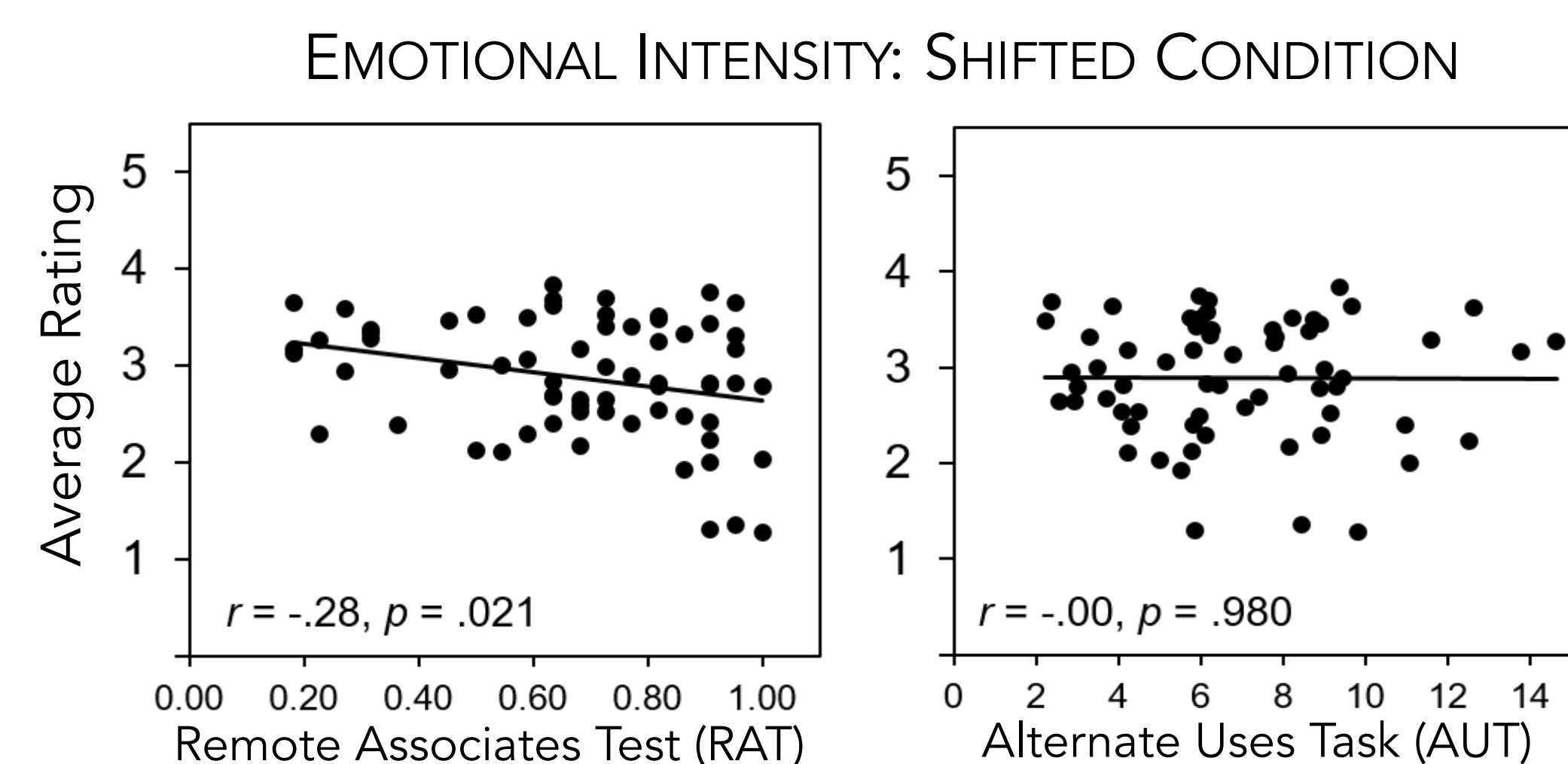


Creativity Measures:

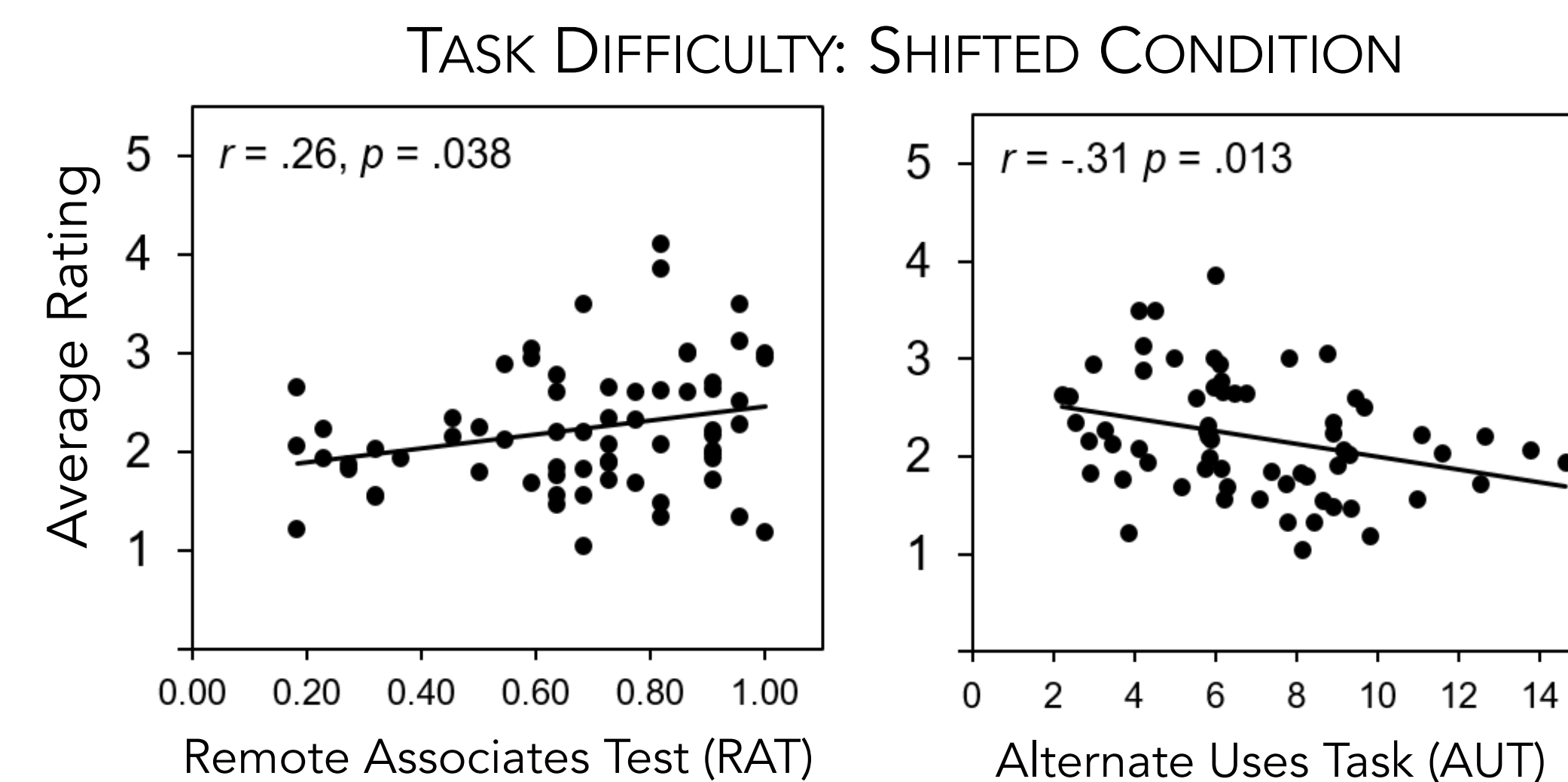
- Convergent Creativity → Remote Associates Test (RAT)⁹ (e.g., "pine – sauce – crab - ?" "apple")
- Divergent Creativity → Alternate Uses Task (AUT)¹⁰ (e.g., using "eyeglasses" as a "fire starter")

n = 73 (42 women, Age = 21.77 yrs, SD = 3.26)

SHIFTING VISUAL PERSPECTIVE



RAT was negatively related to changes in emotional intensity and uniquely predicted emotional intensity when shifting perspective, $B = -.75, p = .027$



RAT and AUT were both significantly related to task difficulty in the shifted condition, but in the opposite direction.

AUT uniquely predicted task difficulty when shifting perspective, $B = -.06, p = .028$

CONCLUSIONS

- Observer-like perspectives are stronger in people higher in convergent than divergent creativity.
- Convergent creativity uniquely predicted greater difficulty in shifting visual perspective and greater reductions in emotional intensity during remembering.
- Convergent creativity was also associated with greater recruitment of angular gyrus during AM retrieval—irrespective of the particular perspective adopted.¹¹
- People higher in convergent creativity might be less likely to adopt an alternative perspective because of greater demands to integrate disparate details of memories during retrieval.¹²

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