ONLINE CO-WITNESS DISCUSSIONS CAN LEAD TO MEMORY CONFORMITY



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INTRODUCTION

Co-witness discussions

Crimes can have multiple co-witnesses with somewhat different memories Co-witnesses can introduce misinfo via discussion (Gabbert et al., 2003)

Co-witness conformity

- Memory distortion via discussed misinformation
- MORI paradigm (Mori, 2003):
 Participant pairs watch subtly different versions of stimuli, believe they are seeing the same thing
 Participants then discuss stimuli, naturally introducing misinfo, then take individual memory tests

RESULTS & DISCUSSION

Item types (Determined by discussion):

Misinfo: Participant exposed to incorrect info in discussion No misinfo: Participant not exposed to incorrect info in discussion Not misled: Participant didn't select partner's incorrect info as final answer in discussion Misled: Participant exposed to incorrect info, selected it as final answer in discussion Non-discussed: Item did not appear during discussion

• Robust evidence for co-witness conformity (Ito et al., 2019)

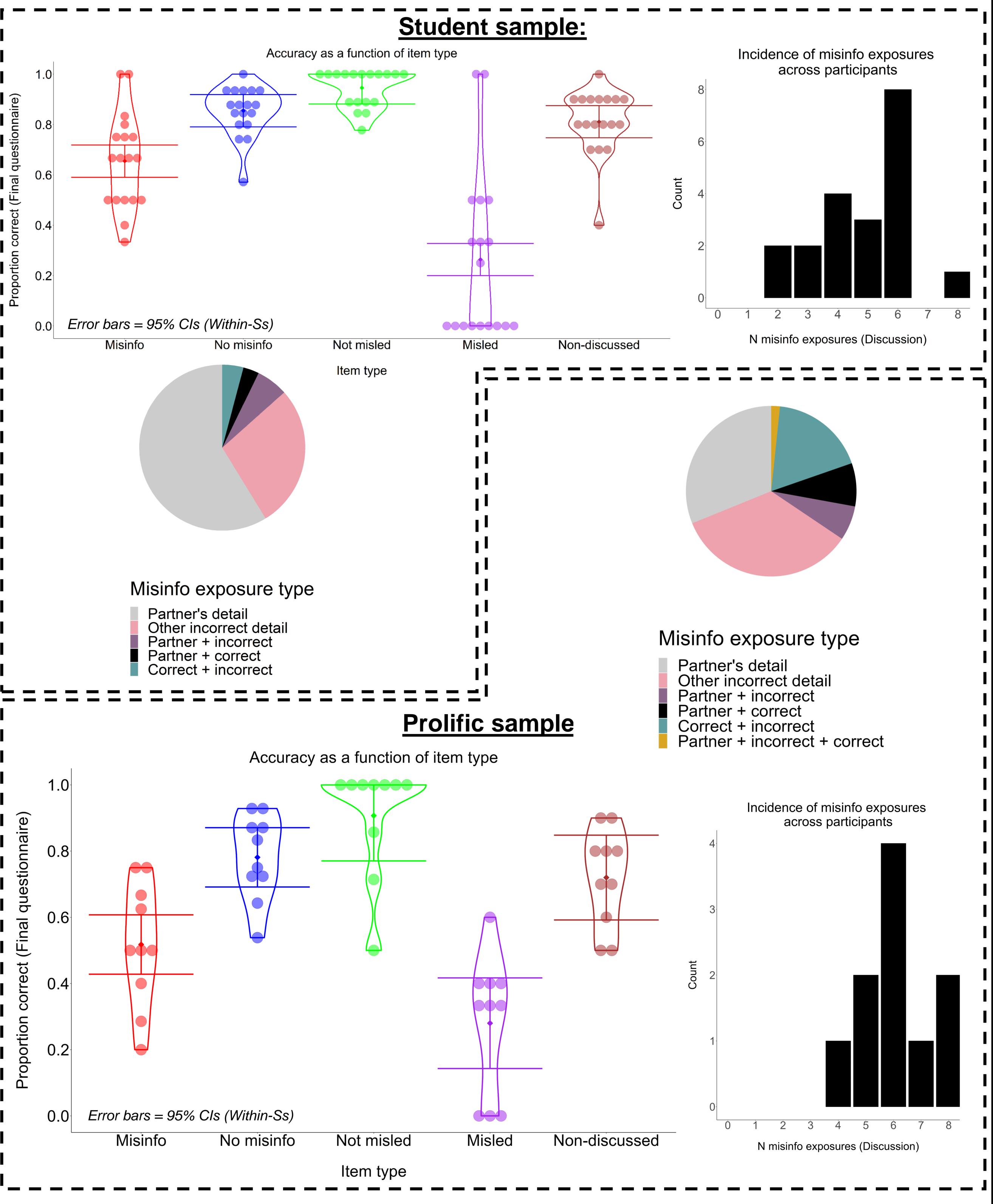
Viability of MORI paradigm in virtual/online environments?

- Recent research: MORI effects replicated online w/ text chat (Cadavid & Luna, 2021; Rasor, 2021)
- Present study: Preliminary examination of video-based online MORI
- Potential for ecologically valid alternative to in-person procedure?

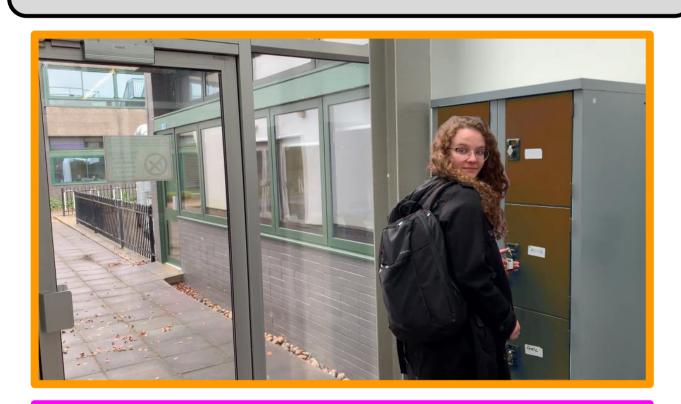
METHOD

<u>Previous student sample:</u> N = 18 (Age M = 19.4, SD = 1.5) <u>Prolific sample (*data collection ongoing*)</u>: N = 10 (Age M = 27.8, SD = 9.6)

Stimuli: Narrated slideshow of a woman stealing objects and performing various actions on a university campus (Rasor, 2021)



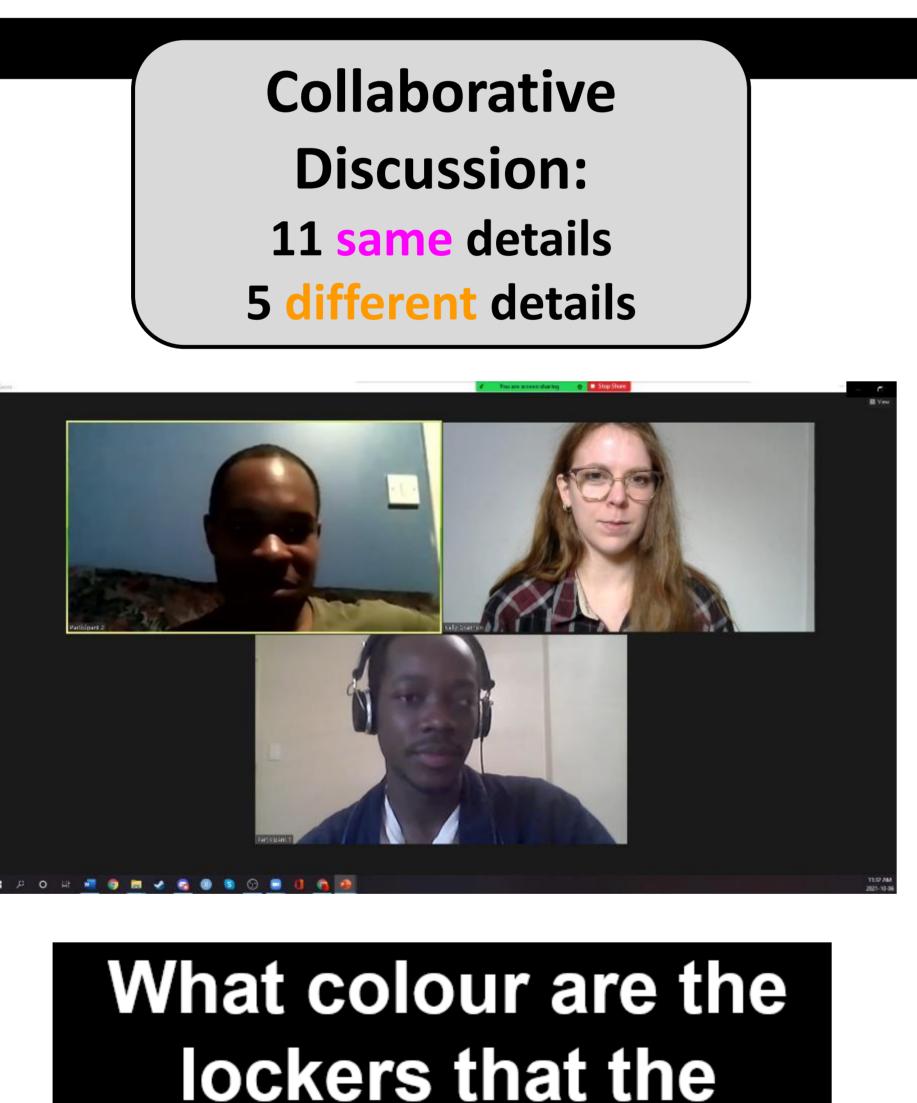
Participant 1 Slideshow





Participant 2 Slideshow





Individual Memory Questionnaire: 10 discussed 10 non-discussed

What colour are the lockers that the woman tries to break into?

Brown Purple

Credit card

What does the woman take from the desk in the office?

woman tries to break into? a. Brown b. Green c. Grey d. Purple e. Black

--Cadavid, S., & Luna, K. (2021). Online co-witness discussions also lead to eyewitness memory distortion: The MORI-v technique. Applied Cognitive Psychology, 35(3), 621-631.

--Gabbert, F., Memon, A., & Allan, K. (2003). Memory conformity: Can eyewitnesses influence each others' memories for an event? Applied Cognitive Psychology, 17, 533-543.

--Ito, H., Barzykowski, K., Grzesik, M., Gülgöz, S., Gürdere, C., Janssen, S.M.J., Khor, J., Rowthorn, H., Wade, K.A., Luna, K., Albuquerque, P.B., Kumar, D., Singh, A.D., Cecconello, W.W., Cadavid, S., Laird, N.C., Baldassari, M.J., Lindsay, D.S., & Mori, K. (2019). Eyewitness memory distortion following co-witness discussion: A replication of Garry, French, Kinzett, and Mori (2008) in ten countries. *Journal of Applied Research in Memory and Cognition, 8*(1), 68-77.

--Mori, (2003). Surreptitiously projecting different movies to two subsets of viewers. Behavior Research Methods, Instruments & Computers, 35(4), 599-604. --Rasor, S. A. (2021). Developing and testing new simulated crime stimuli for eyewitness memory research [Unpublished Masters thesis]. University of Warwick.

Discussion

Partners readily exposed each other to misinfo (both witnessed & non-witnessed)
Being exposed to & agreeing w/ partner's misinfo both = lower accuracy on final test
But, exposure to misinfo does not necessarily = being misled
41% of misinfo exposures led to Ps being misled (student sample)
57% of misinfo exposures led to Ps being misled (Prolific sample)

Preliminary data suggest viability of online, video-based MORI procedure