



Eye tracking of attention allocation during prospective remembering

RESULTS



Equal ongoing task accuracy





Summary

) Eye tracking allows direct, time-sensitive 2) We have captured monitoring strategies measurement of PM monitoring **J** obscured by traditional PM cost analyses

2. Shelton, J.T. & Scullin, M.K. (2017). The Dynamic Interplay between bottom-up and top-down processes supporting prospective remembering. Cur. Dirs. in Psych. Sci., 26(4), 352-358. 3. Smith, R.E., Hunt, R.R., McVay, J.C., & McConnell, M.D. (2007). The Cost of Event-Based Prospective Memory: Salient Target Events. JEP: Learning, Memory, and Cognition, 33(4), 734-746. 4. McDaniel, M.A. & Einstein, G.O. (2000). Strategic and automatic processes in prospective memory retrieval: A multiprocess framework. Applied Cogn. Psych., 14, S127-S144.

- Cue-Intention Association - Low Cognitive Cost

Ongoing Task RT (PM + Ongoing Task) **Ongoing Task RT** (Ongoing task only) PM Cost

Trial Type: Face/Scene/NoPM Unique to trial Never repeated PM-Item Fixation Arrow Array Fixation

> PM-Item Fixation

5)

Seth R. Koslov, Landry S. Bulls, and Jarrod A. Lewis-Peacock Department of Psychology, University of Texas at Austin

- 7. Ballhausen, N., et al., (2019). Investigating prospective memory via eye tracking: No evidence for a monitoring deficit in older adults. International Journal of Psychophys., 146, 107-116. 8. Anderson, F.T., et al., (2019). Toward a Better Understanding of Costs in Prospective Memory: A Meta-Analytic Review. Psych. Bull., 145(11), 1053-1081.





These analyses reveal strategy gradients between proactive and reactive control 3)

5. Lewis-Peacock, et al., (2016). Neural evidence of the strategic choice between working memory and episodic memory in prospective remembering. Neuropsychologia, 93, 280–288. 6. Koslov, S.R., et al., (2019). Cognitive flexibility improves memory for delayed intentions. *eNeuro*, 6(6).