## **1. Introduction**

- Event segmentation, dividing time into contiguous blocks, is a key driver of episodic memory and helps with better recall.<sup>1</sup>
- In general, spatial and temporal distance are highly correlated, making it difficult to determine whether temporal segmentation influences spatial memory segmentation.
- Faster recognition noted when locations are both spatially and temporally proximal.<sup>2</sup>

## **Does spatial memory show temporal segmentation?**

# **-2. Method**

• **Sample**: 76 healthy participants (54 female, mean = 19.7, SD = 1.5). 21 additional participants started but couldn't complete the experiment (3 due to motion sickness, 2 declined, 1 excluded) Pre-registered

### **Experiment Environment**



Time 1 - Group 1 Time 1 - Group 2 Time 2 - Group 1 Time 2 - Group 2





### **Experimental sequence**



Questionnaires (Demographics, Navigation Strategy, SBSOD, Video game)



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