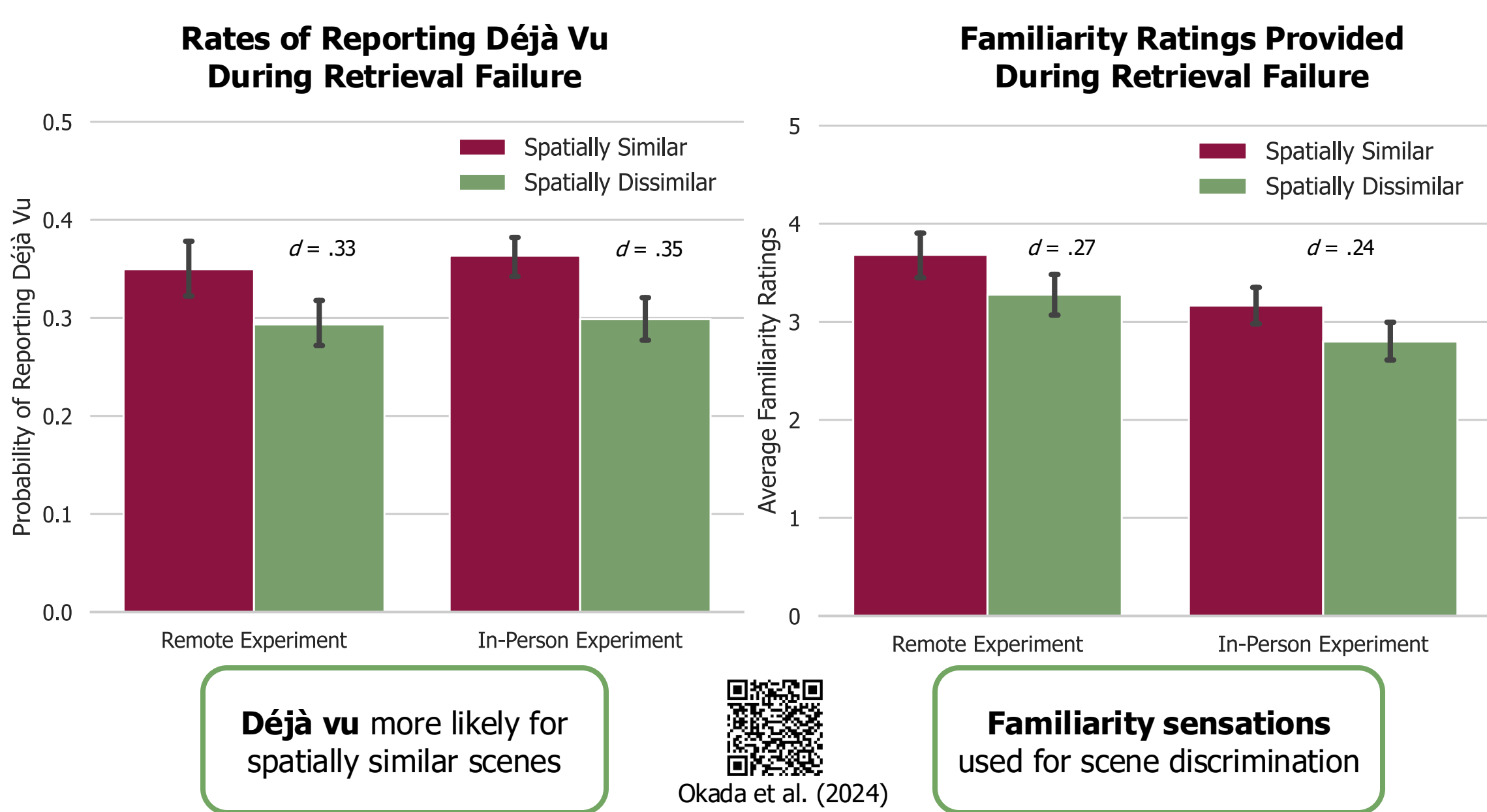
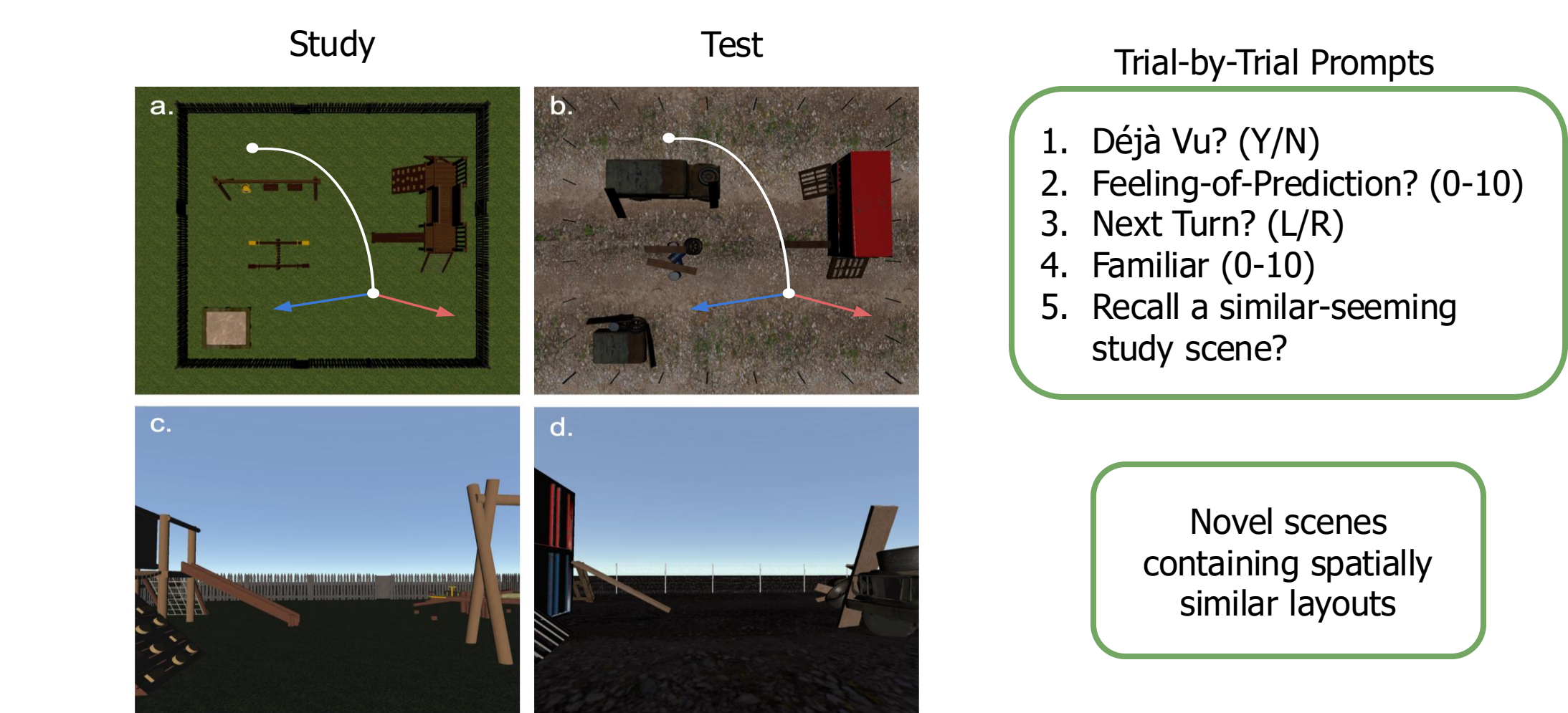


# Déjà Vu Experiences Throughout the Lifespan: On the Relationship between Age, Spontaneous and Experimentally-Induced Déjà Vu, and Other Metacognitive Quirks

Katherine L. McNeely-White<sup>1</sup>, Jose M. Francisco-Andres<sup>2</sup>, Brooke N. Carlaw<sup>2</sup>, Jill Gibson<sup>2</sup>, Anne M. Cleary<sup>2</sup>, & Nigel P. Pedersen<sup>1</sup>  
<sup>1</sup>Department of Neurology, University of California, Davis, <sup>2</sup>Department of Psychology, Colorado State University

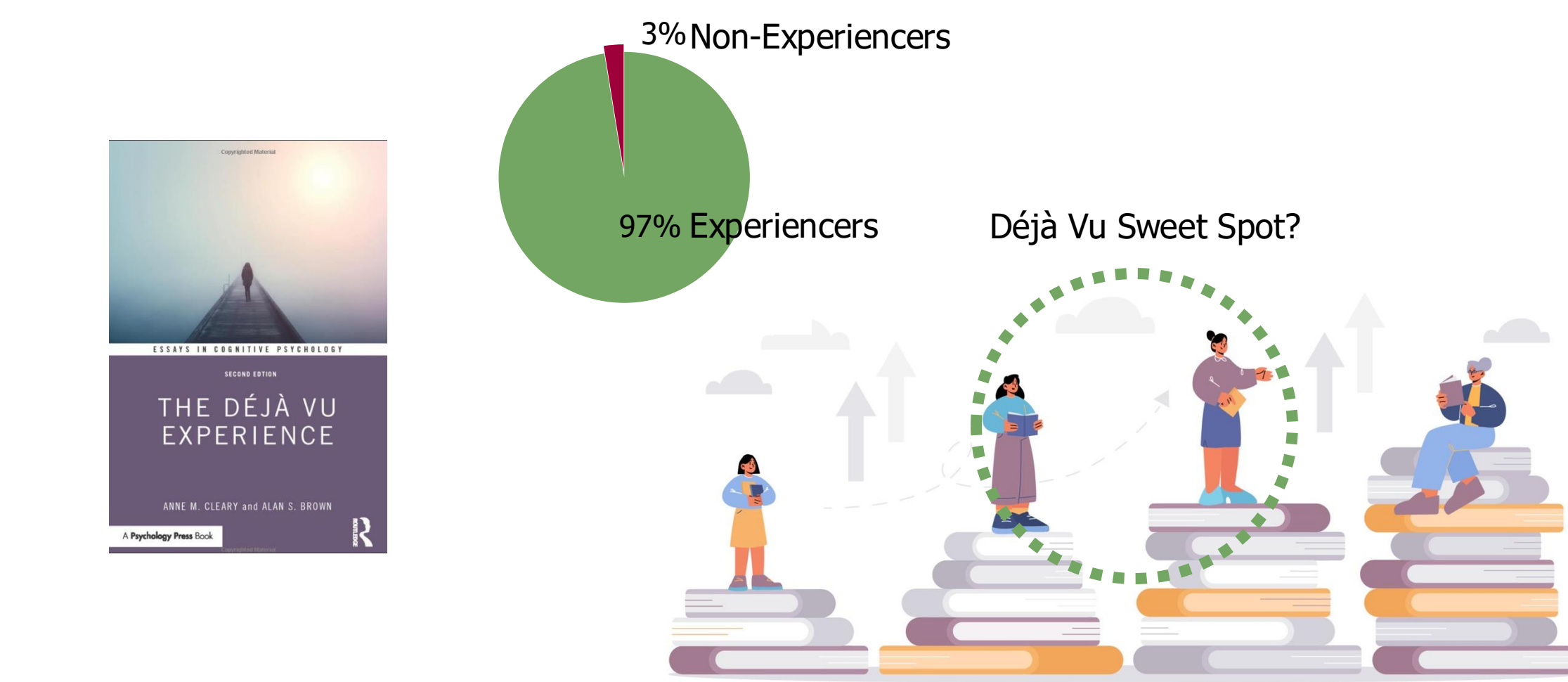
## Background

**Déjà vu** – the feeling of having experienced something before while simultaneously feeling a sense of novelty



### Does participant age affect these results?

- Recollection-based recognition decreases
- Familiarity-based recognition increases\*
- Spontaneous déjà vu decreases

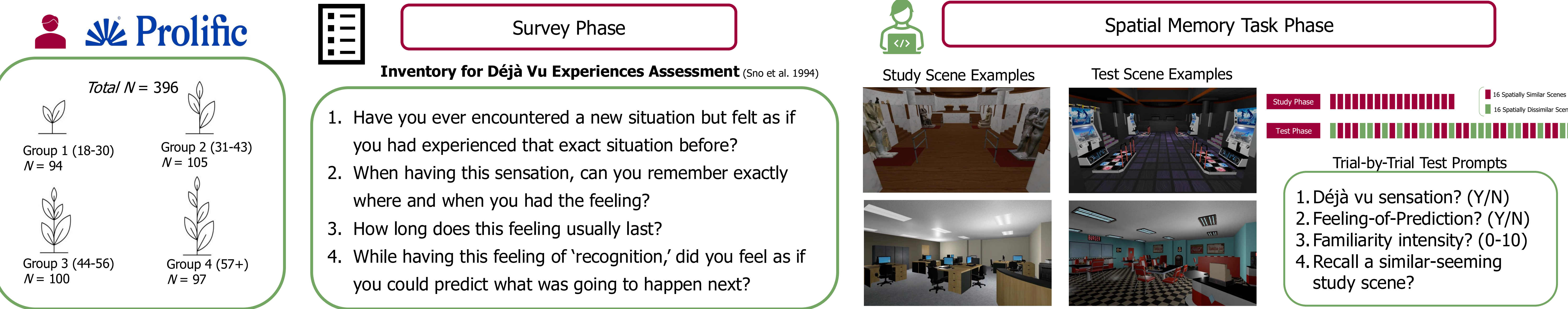


## Present Study

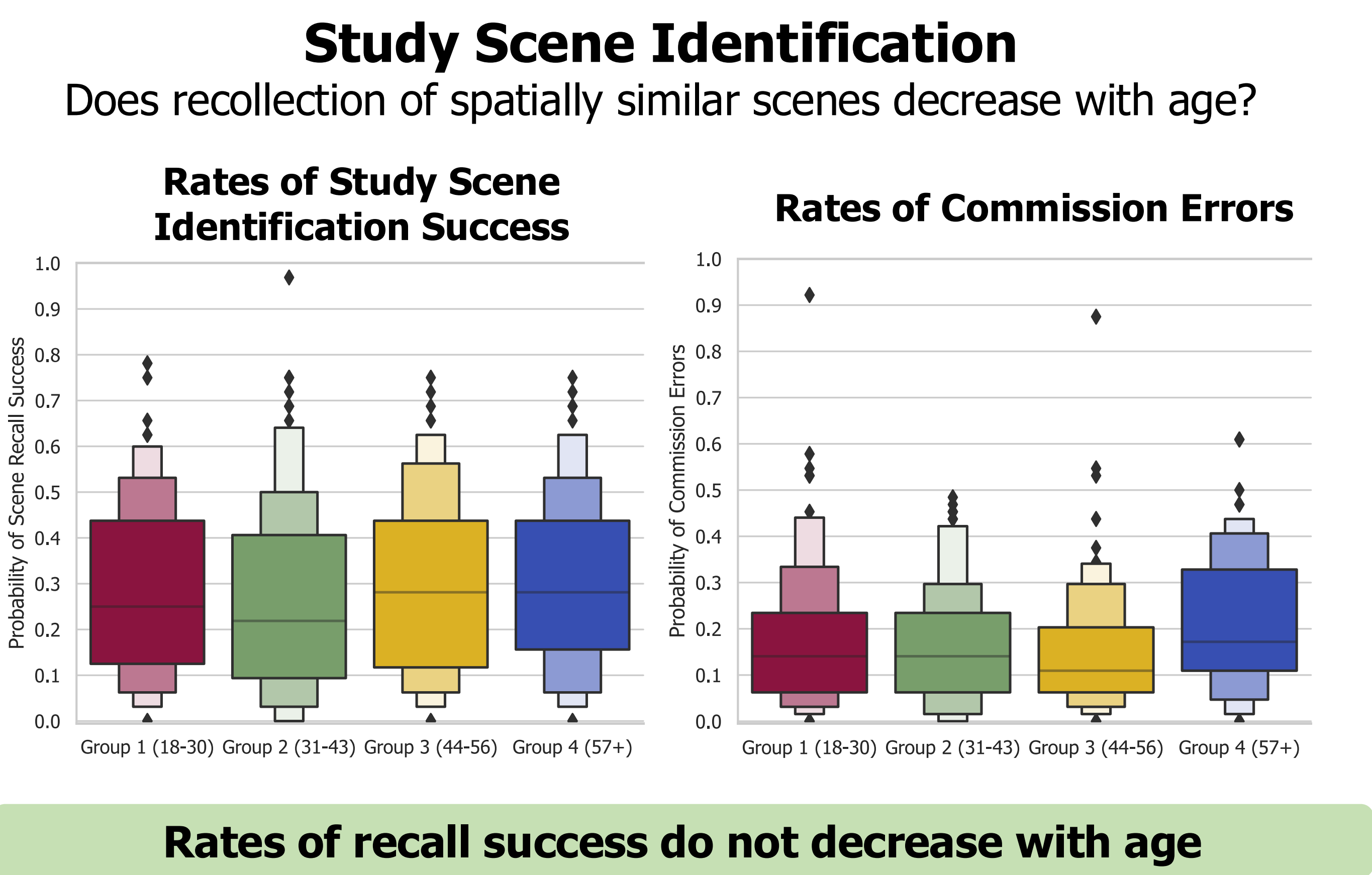
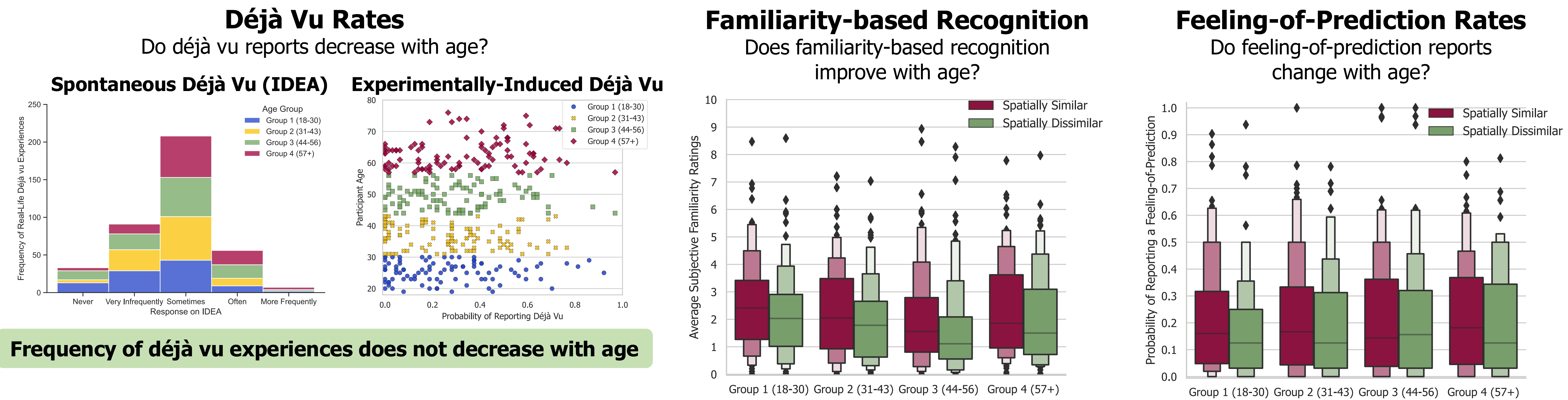
### Primary Research Questions:

1. Does déjà vu frequency decrease with age?
2. Does spatial recognition memory vary with age?
3. Do metacognitive illusions vary with age?

## Methods



## Results



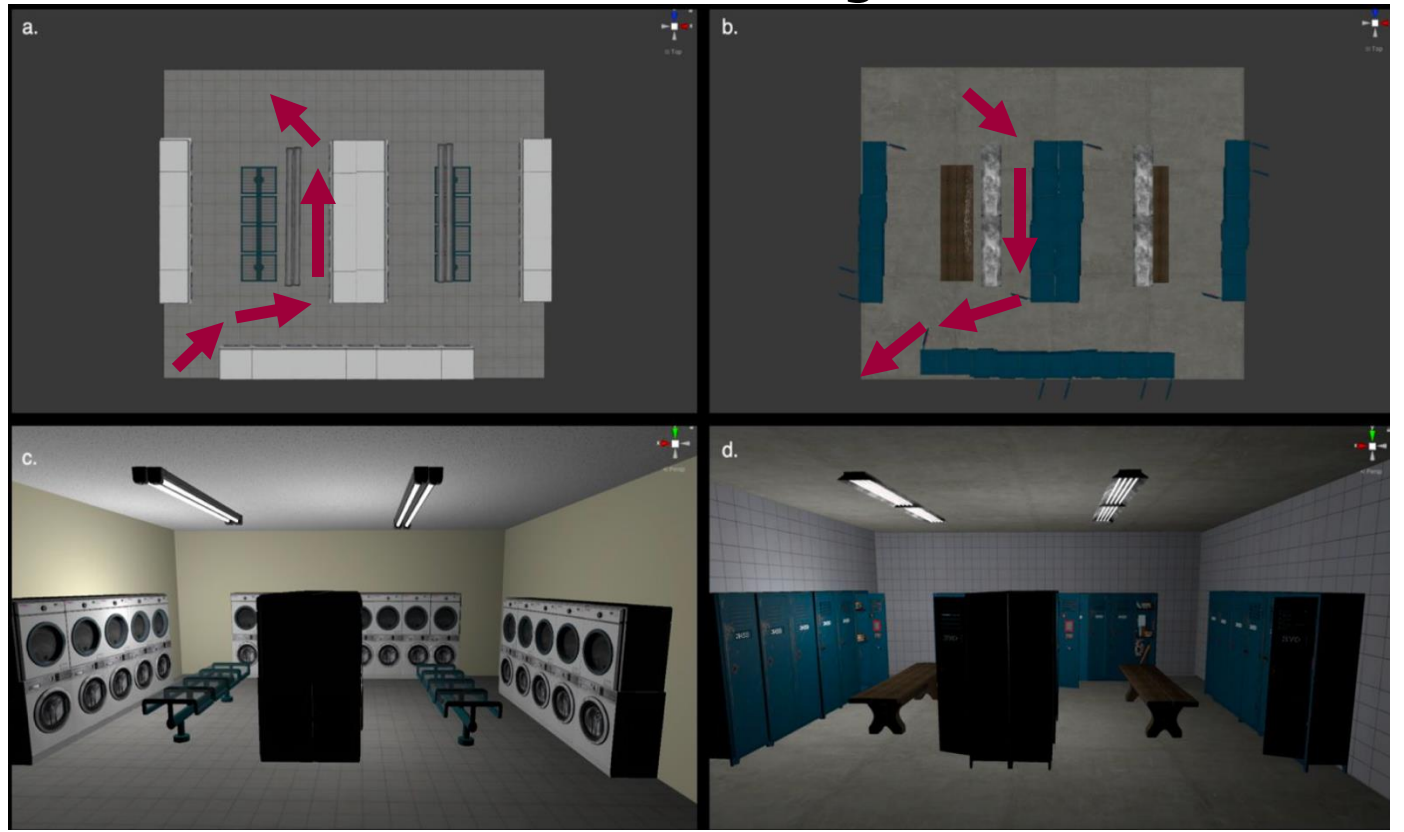
## Conclusions and Future Directions

### Spatial recognition memory processes remain intact across lifespan

- Déjà vu frequency does not vary with age
- Recollection-based recognition does not decrease with age
- Familiarity-based recognition remains stable

### Ecocentric vs Allocentric Navigation

Do memory representations become less flexible with age?



### Comparison to Standard Recognition Tasks

Will our participants show deficits on word-list learning paradigms, but not our dynamic memory task?

