

Can Wearable Cameras Stimulate Non-visual Memory?

Jason R. Finley, Rianna M. Roush, Patricia M. Roberts, Justin D. Pfister, Sophia A. Mohsen, Anna E. Hendricks, Adrien C. Vozenilek

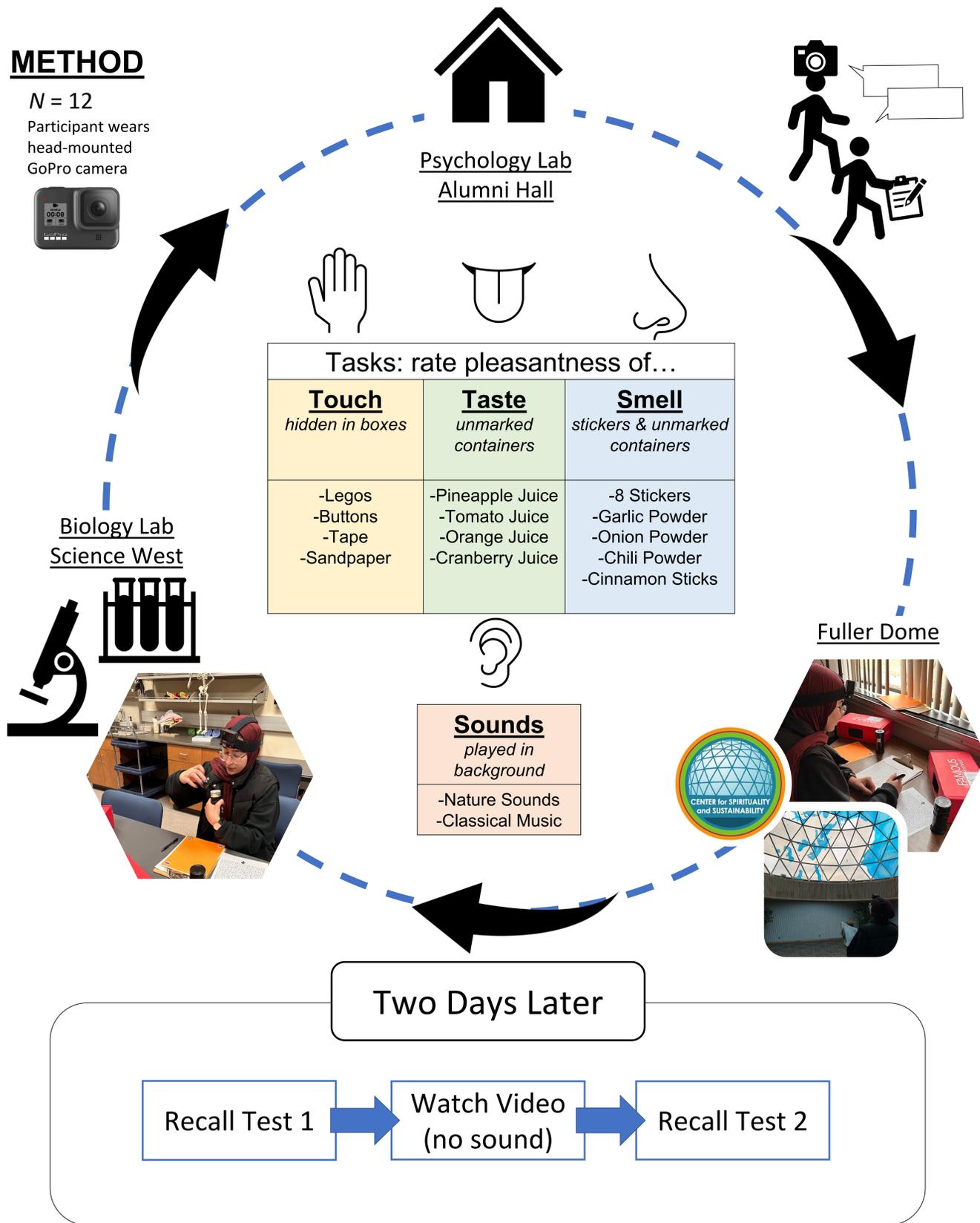
INTRODUCTION

- Wearable cameras create visual records of experience.
- Reviewing videos evokes a sense of reliving.
- Can they stimulate memory for **non-visual** aspects of experience?

METHOD

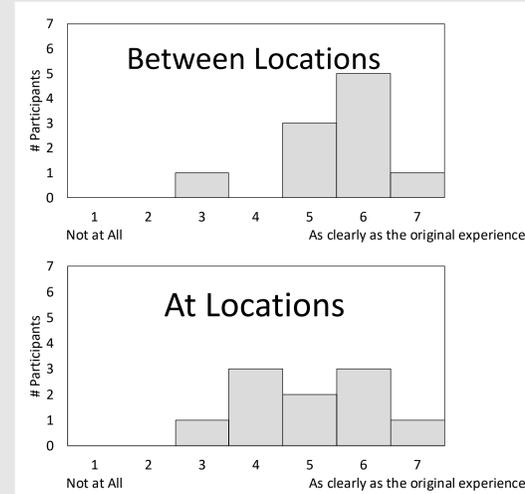
N = 12

Participant wears head-mounted GoPro camera



RESULTS

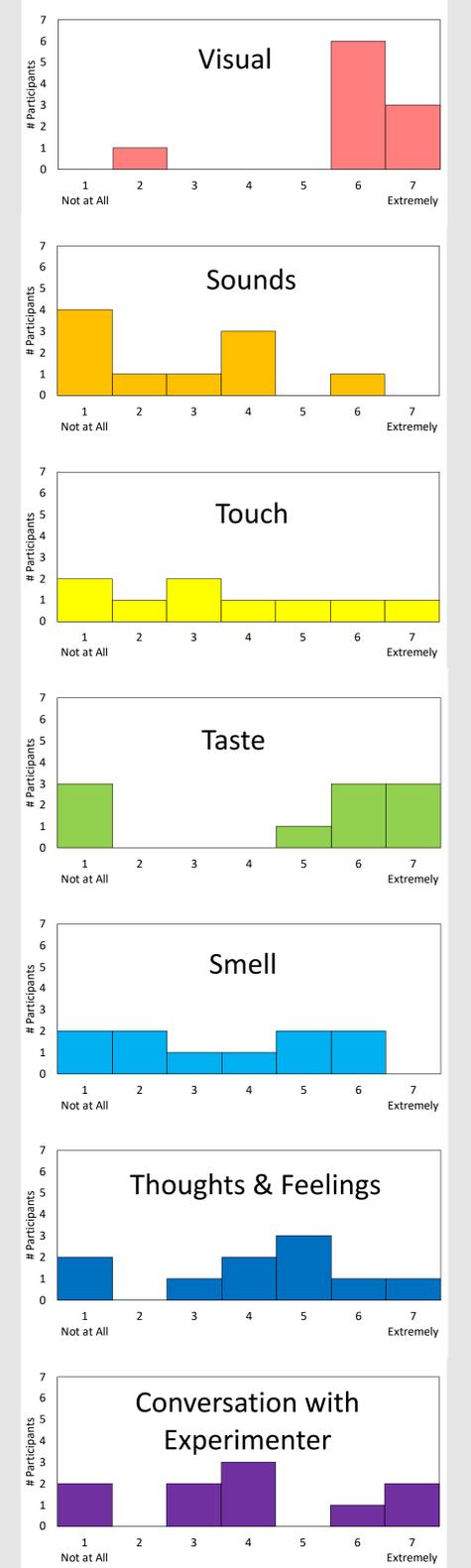
When you were watching your video, how much did it feel like you were reliving the original experience?



"The video would show something I didn't think of but once it happened, it clicked"

Participant Ratings

How much did watching the video stimulate your memory for each of the following aspects of your original experience?



Aspect of Experience	Number of Participants (of 12) Reminded of at Least One Element After Watching Video
Sounds	2
Touch	1
Taste	1
Smell	10
Thoughts & Feelings	8
Conversation	6

ceiling effect

DISCUSSION

YES

Can wearable cameras stimulate non-visual memory?

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Wearable cameras capture a first-person visual record of experience. Such videos can evoke a powerful sense of reliving. Twelve participants wore a head-mounted GoPro camera across campus to two distinct campus locations where they completed multi-sensory tasks, including: touching hidden objects and textures in sensory boxes, tasting juices from disguised containers, smelling unlabeled spices and scratch-n-sniff stickers, and hearing ambient nature sounds or classical music. Two days later, they recalled their experiences both before and after watching their video (without sound). The video reminded a majority of participants about smell, thoughts and feelings, and/or conversations with the experimenters. Results demonstrate that footage from wearable cameras can stimulate non-visual memories.