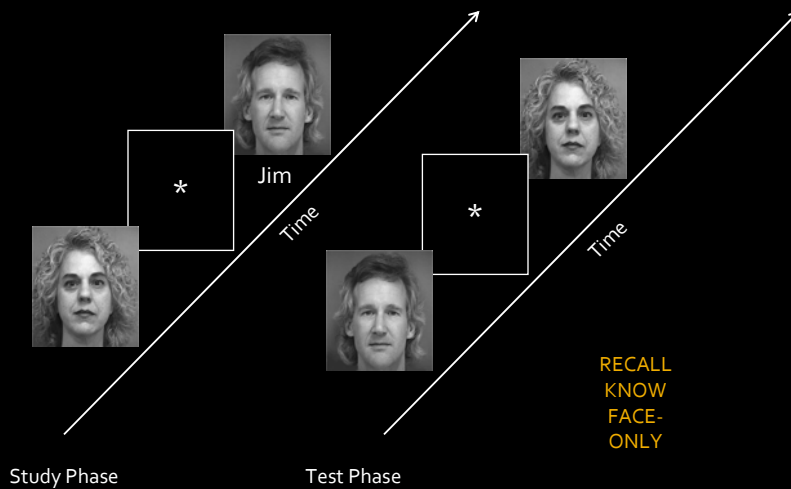


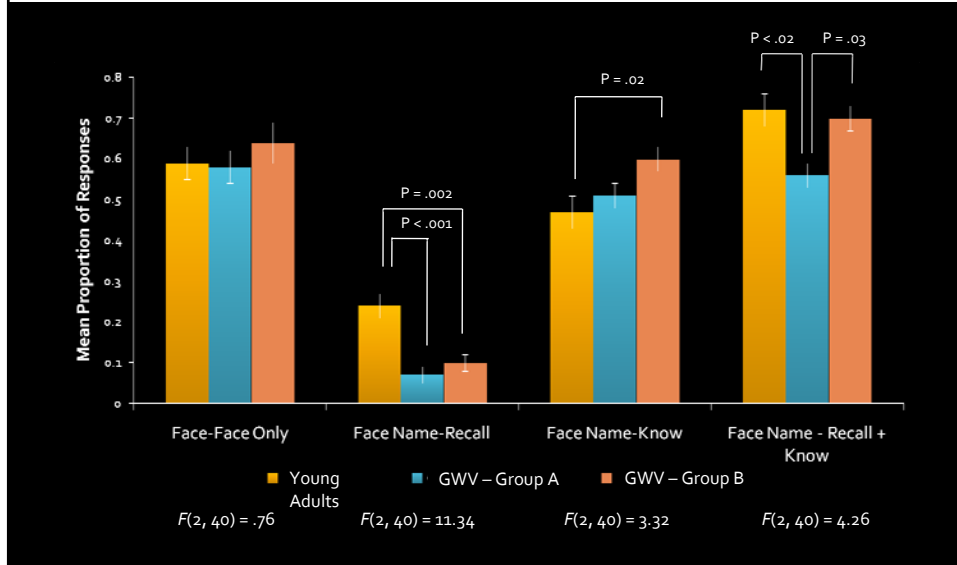
Task Order 4.14 Auditory-Visual Conjunctive Memory

Timothy Odegard, James Bartlett, Crystal Cooper, Emily Farris,
Joshua Arduengo

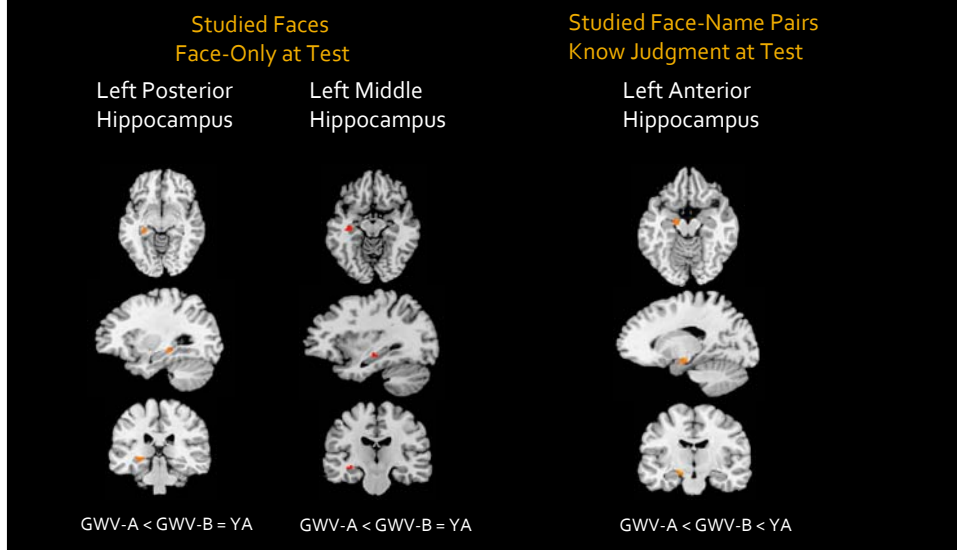
Methods: Associative Memory Paradigm



Results: Memory Performance



Hippocampus Differences between GWV-A & -B



Explanation:

- Recall:
 - $\text{GWV-A and GWV-B} < \text{Young Adults}$
- Know:
 - $\text{GWV-B} > \text{Young Adults}$
 - $\text{GWV-A} = \text{Young Adults}$
- Recall + Know:
 - $\text{GWV-B} = \text{Young Adults}$
 - $\text{GWV-A} < \text{GWV-B and Young Adults}$
- Left Hippocampus Function
 - $\text{GWV-A} < \text{GWV-B and Young Adults}$

Importance

- Basic memory test that distinguishes between healthy and ill-veterans.
- Basic fMRI paradigm that distinguishes hippocampus brain activation between healthy and ill-veterans
- Possible use as a testing instrument for diagnosis and treatment response