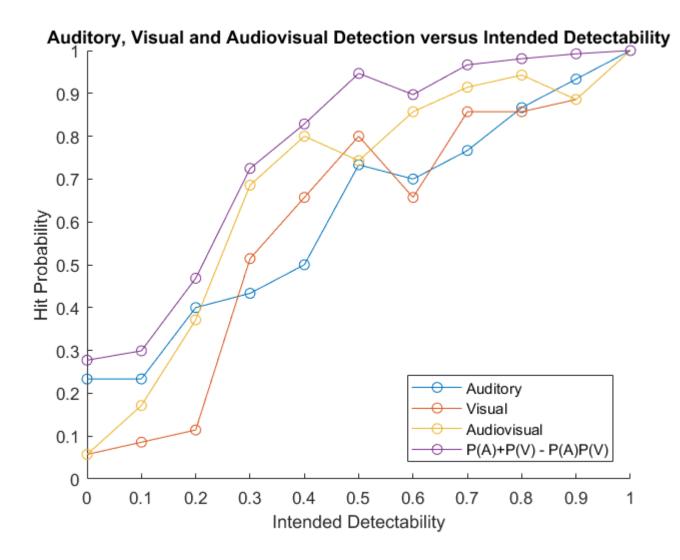
SMART-IE Behavioral Pilot Data Group Averages & Models

Allen Chen

Experiment Set-up

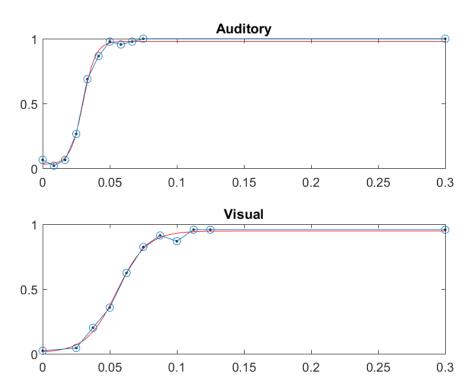
- Initial titration phase and testing done on the same day.
- 11 Points Tested. (0, 10%, 20%, 30%, ..., 100%)
- 50 repetitions of each stimulus
- Total experiment time with no EEG: 2 and a half hours to 3 hours
- We're currently struggling with an auditory glitch that caused auditory to be distorted ~halfway through an experiment for two of the five data sets. These data sets had the affected portion of the experiment discarded.

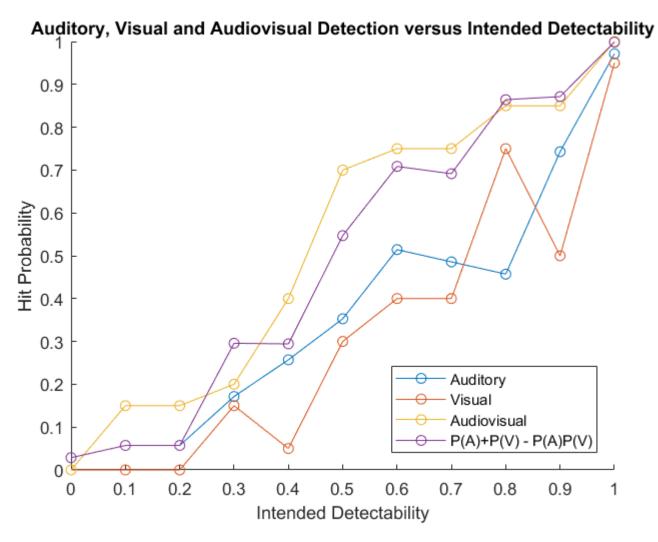


Auditory Glitch

Salvaged Data:

- 30 reps of each auditory stimulus
- 25 reps of each visual stimulus
- 35 reps of each audiovisual stimulus

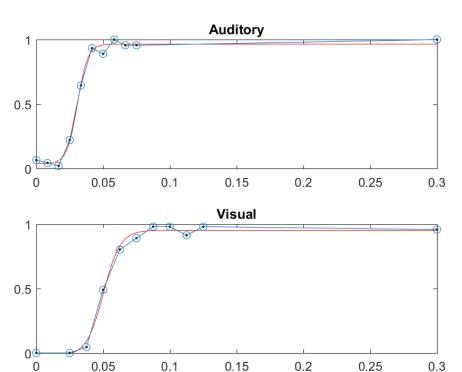


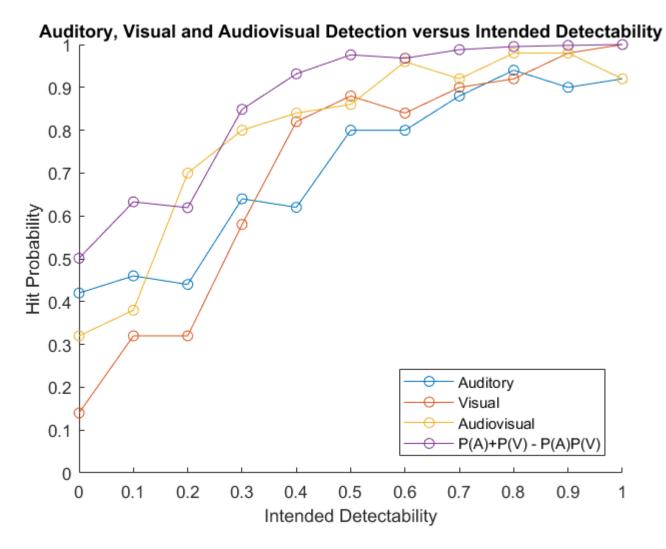


Auditory Glitch

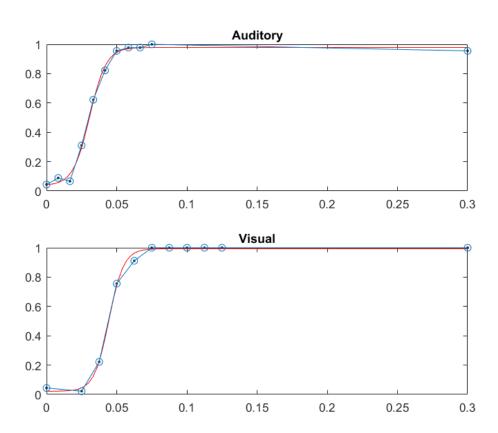
Salvaged Data:

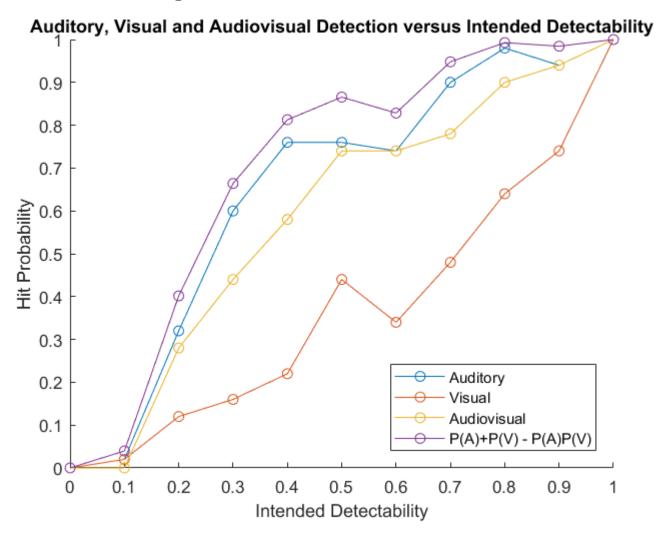
- 30 reps of each auditory stimulus
- 20 reps of each visual stimulus
- 20 reps of each audiovisual stimulus



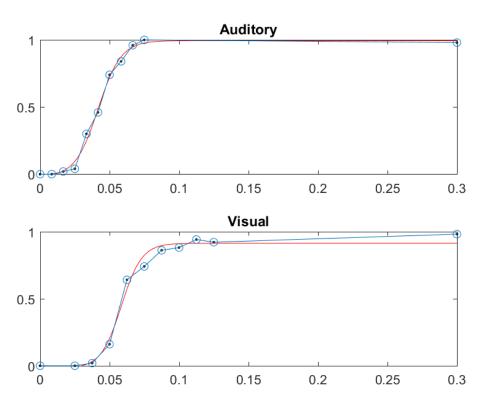


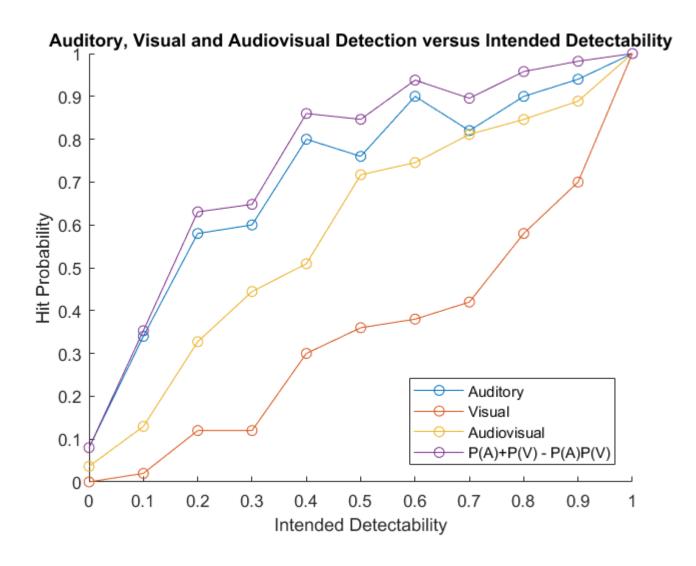
No Auditory Glitch 50 reps of each stimulus



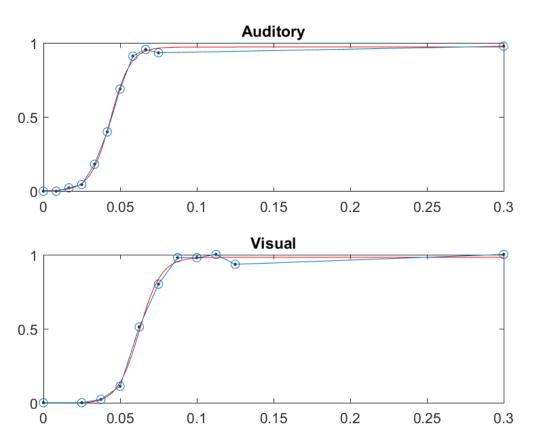


No Auditory Glitch 50 reps of each stimulus





No Auditory Glitch 50 reps of each stimulus



Summary

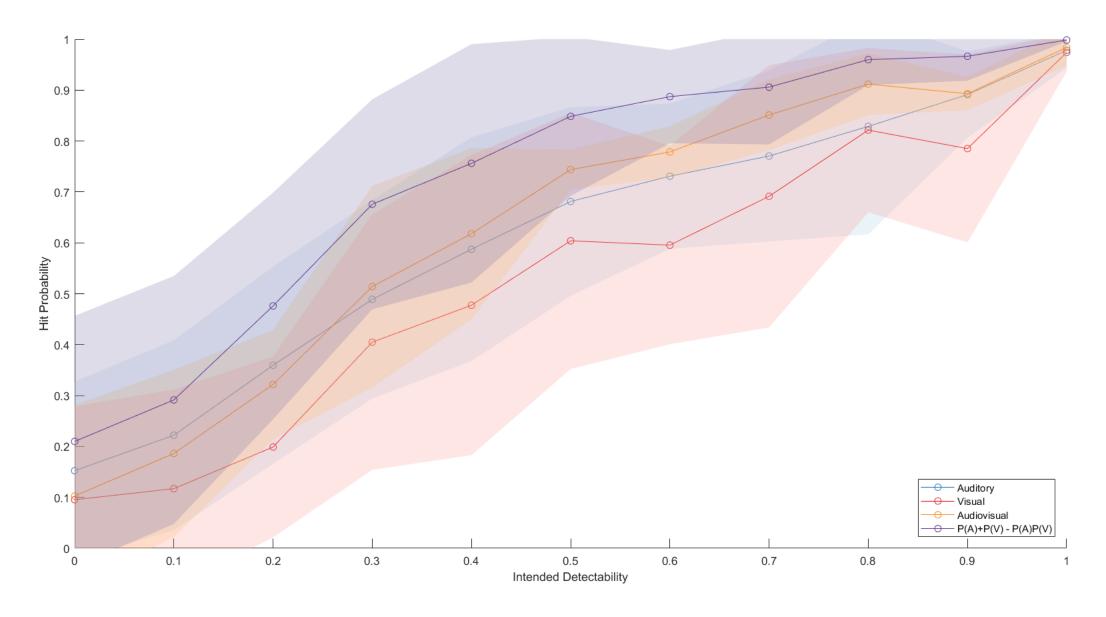
Behavioral Prediction Model: P(A) + P(V) - P(A)*P(V)

3/5 participants' audiovisual curve never surpassed probability summation model.

1/5 participants' audiovisual curve had one point that surpassed the model. (subject 3)

1/5 participants' audiovisual curve was consistently higher than the probability summation model. (subject 2)

Group Mean ± STD



Group Mean ± SEM

