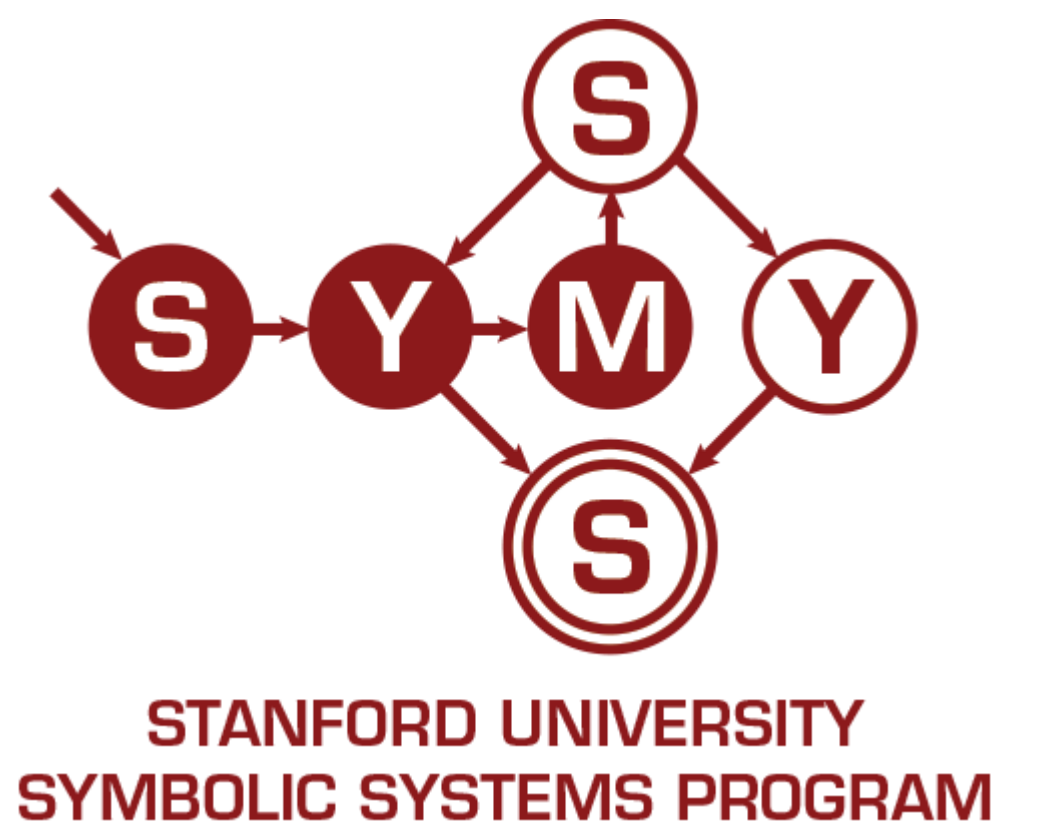


Psychological predictors of stated and displayed preferences in online dating

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Introduction

Background:

- Smiling increases positive affect for target¹
- Attractiveness is associated with higher dating interest
- Stated ideal partner preferences have been shown not to be very accurate in the past
- Previous studies on speed dating has shown that activity in selected regions of the brain is correlated with dating interest in a target

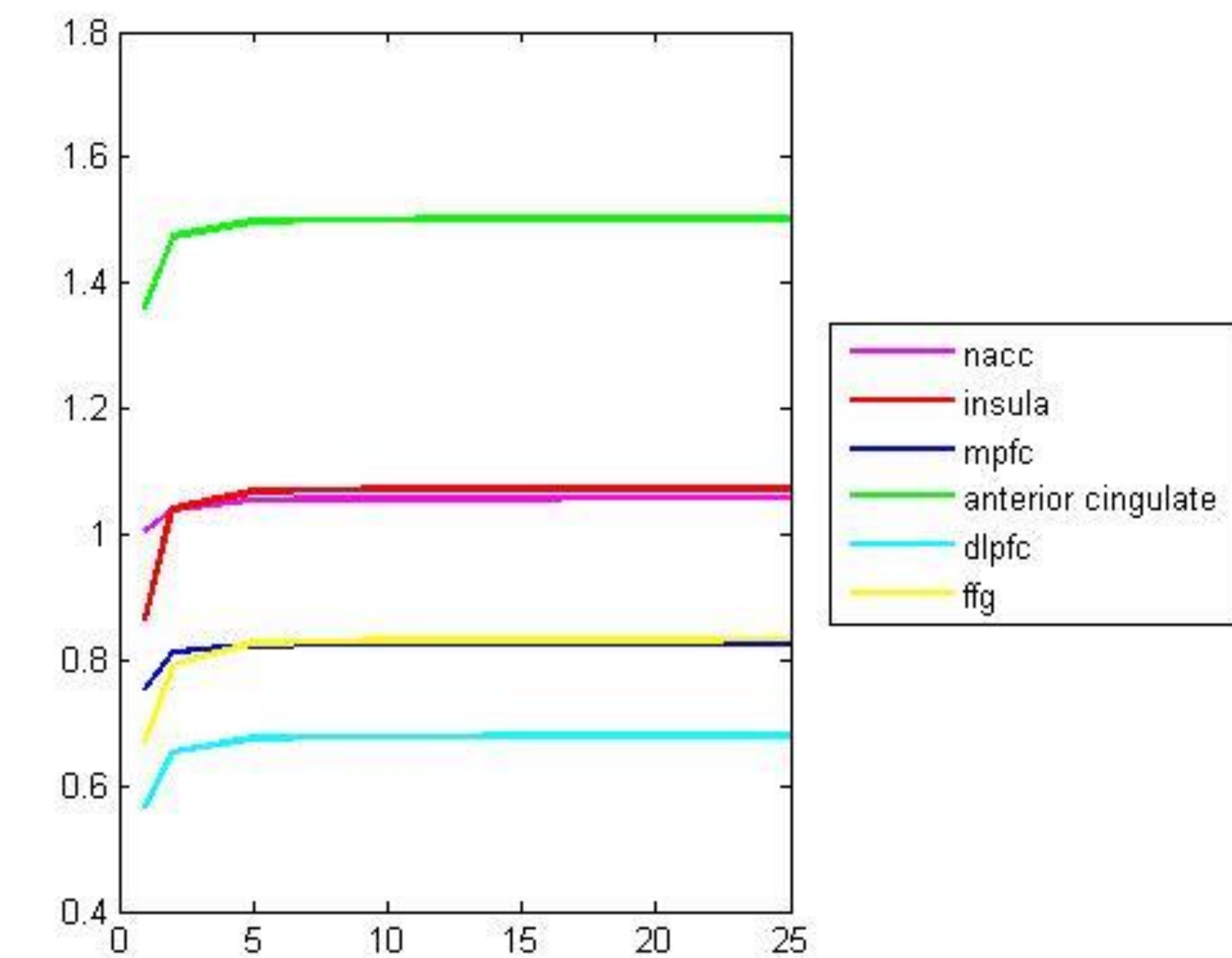


Central Research Questions:

- Can we predict choice from BOLD signal in selected regions of interest?
- Can we predict BOLD signal from features of the stimulus

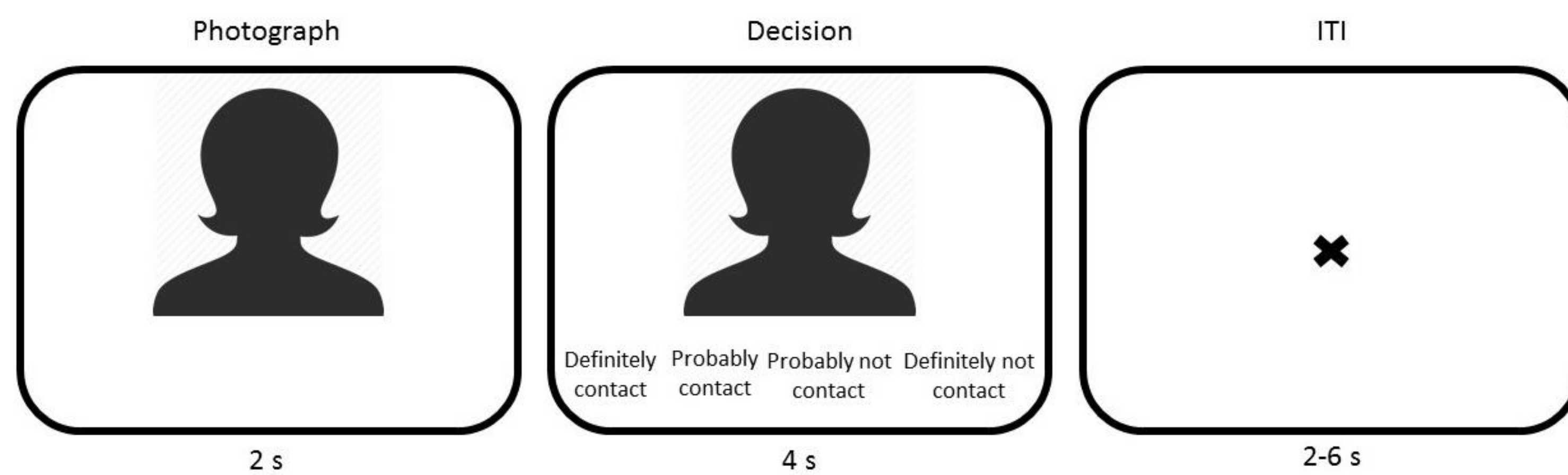
Results (Continued)

Predicting BOLD signal from stimulus features

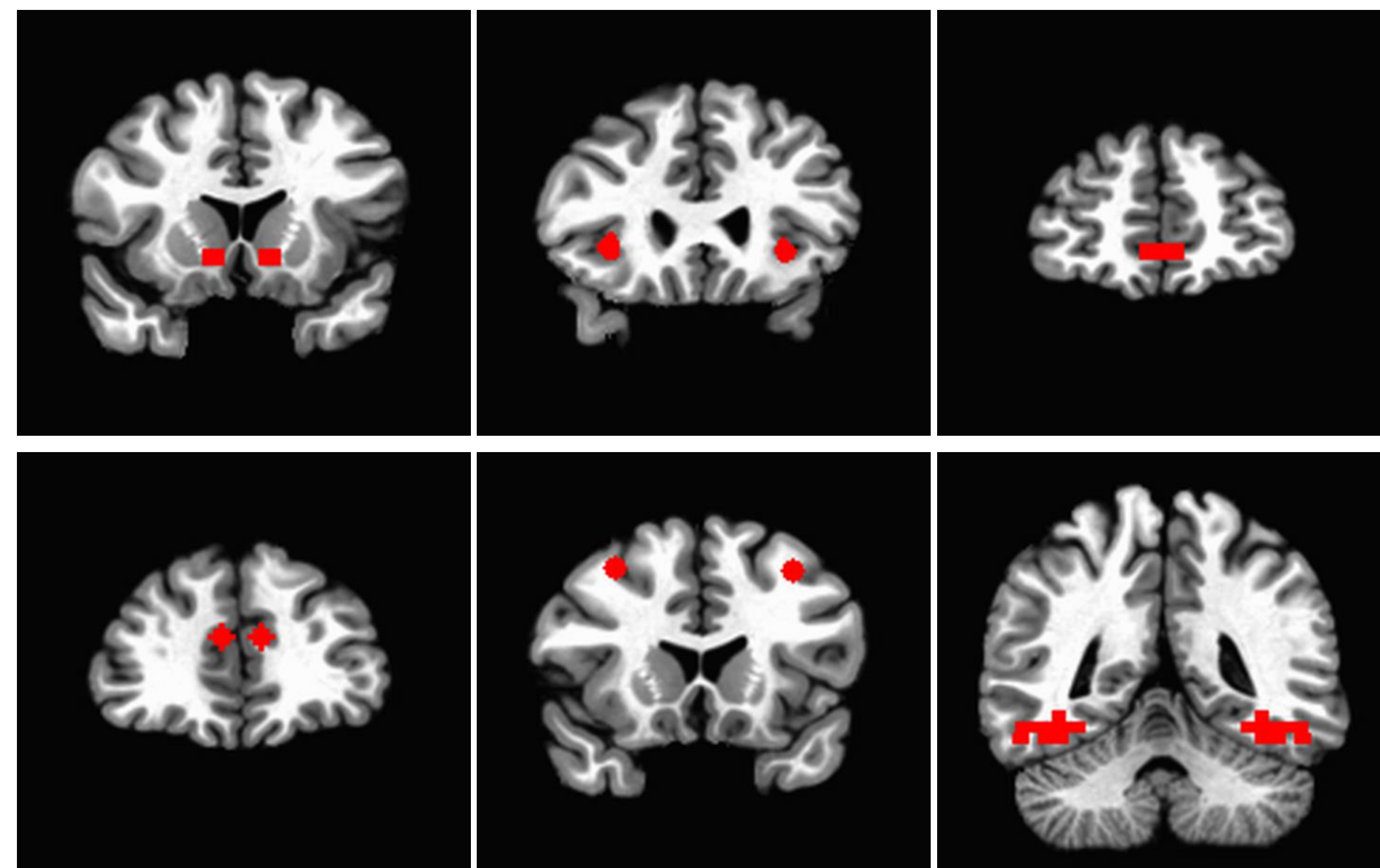


Methods

Task



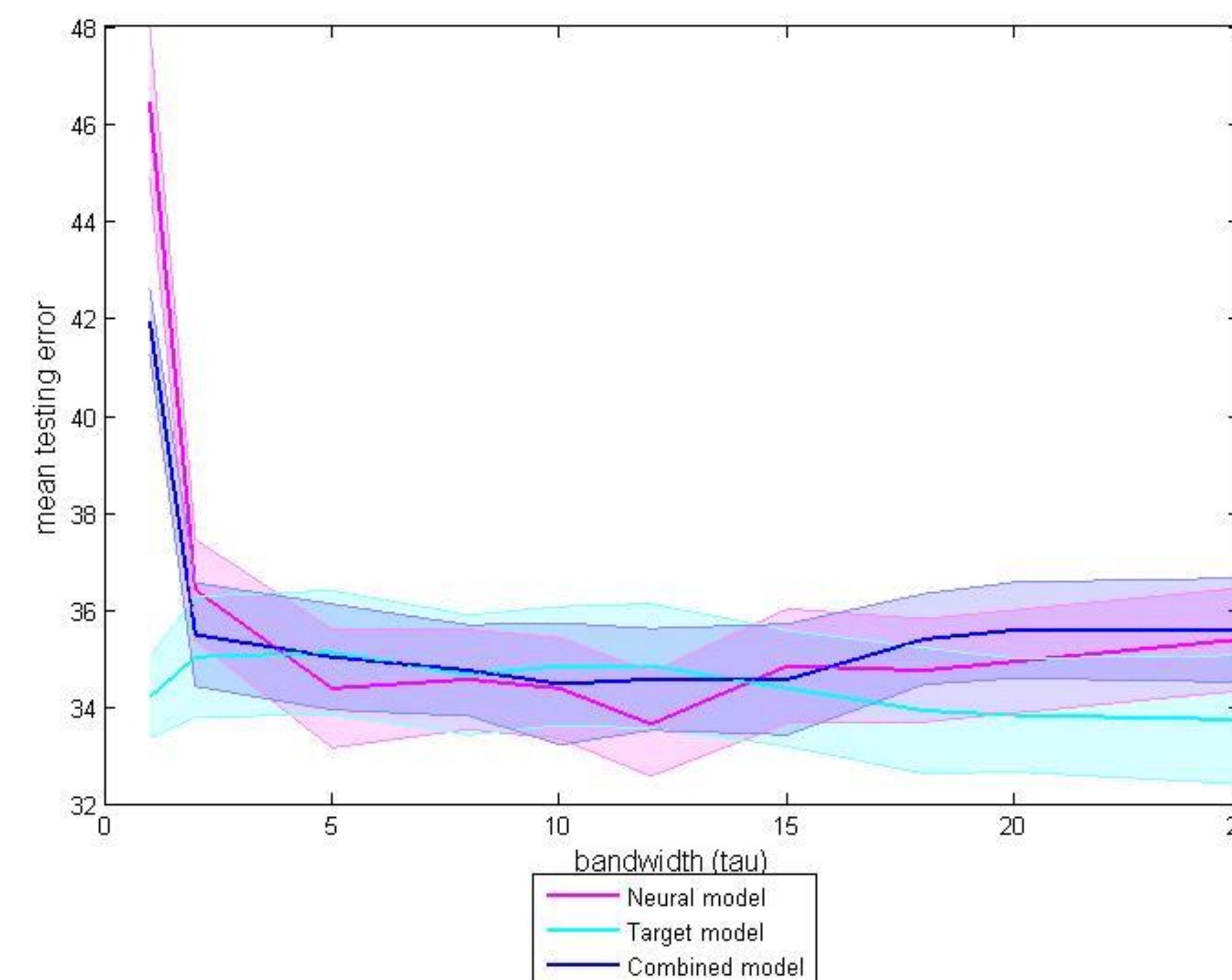
Regions of interest



Results

Predicting choice from BOLD signal

- Effect of choice of bandwidth on success of SVM algorithm for 3 types of models



Note: Error bars depict standard errors

Conclusion

- Accuracy of choice prediction is more strongly affected by choice of bandwidth for neural models
- We can predict BOLD signal from features of the photo with varying success for the 6 regions of interest

Future Directions

- Comparing performance of other models on classifying data

References

- Photo source: Minear, M. & Park, D.C.(2004). A lifespan database of adult facial stimuli. Behavior Research Methods, Instruments, & Computers. 36, 630-633
- ¹Lau, S. (1982). The effect of smiling on person perception. *The Journal of Social Psychology*, 117(1), 63-67.
- ²Wood, D., & Brumbaugh, C. C. (2009). Using revealed mate preferences to evaluate market force and differential preference explanations for mate selection. *Journal of personality and social psychology*, 96(6), 1226.