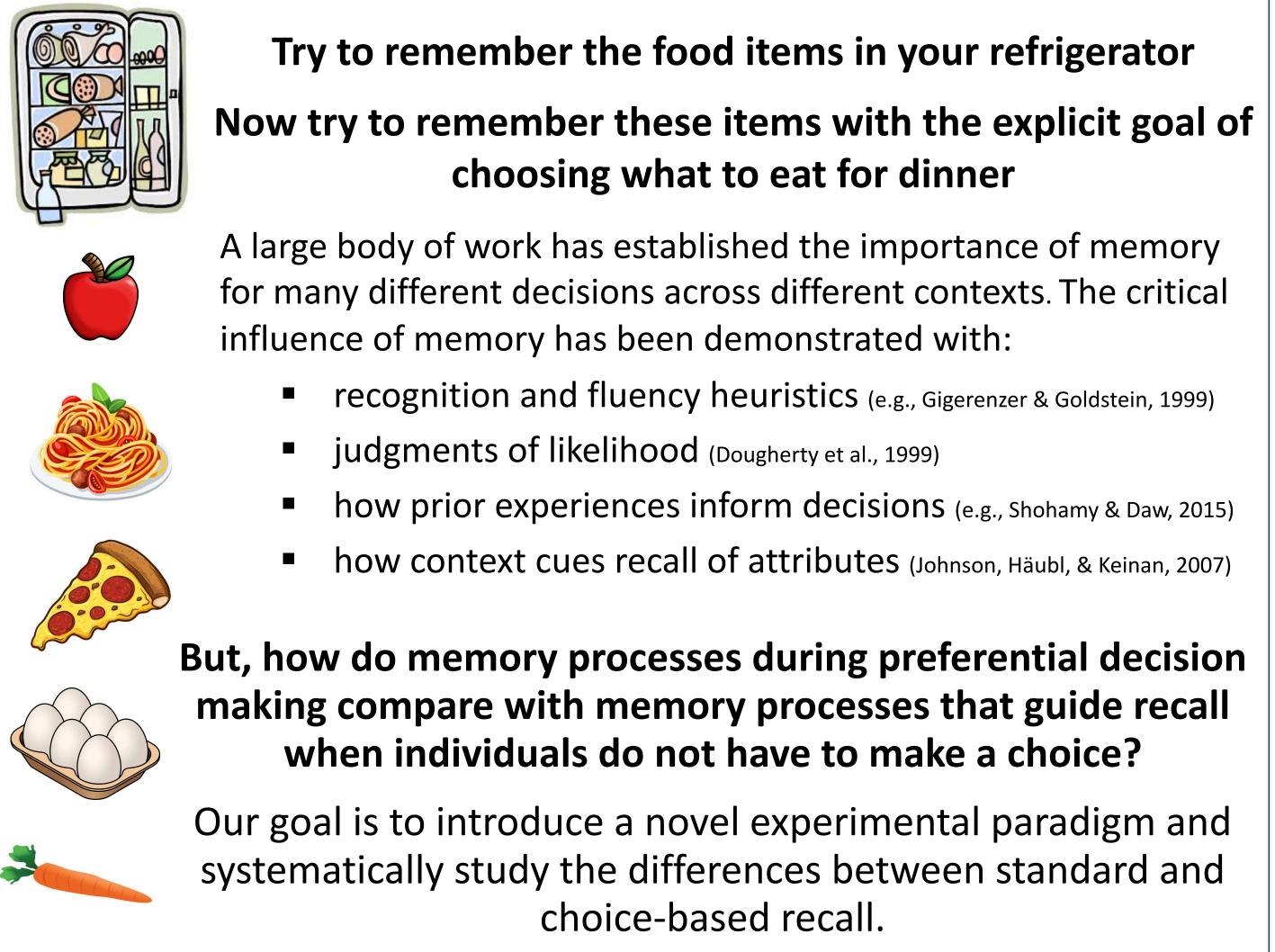
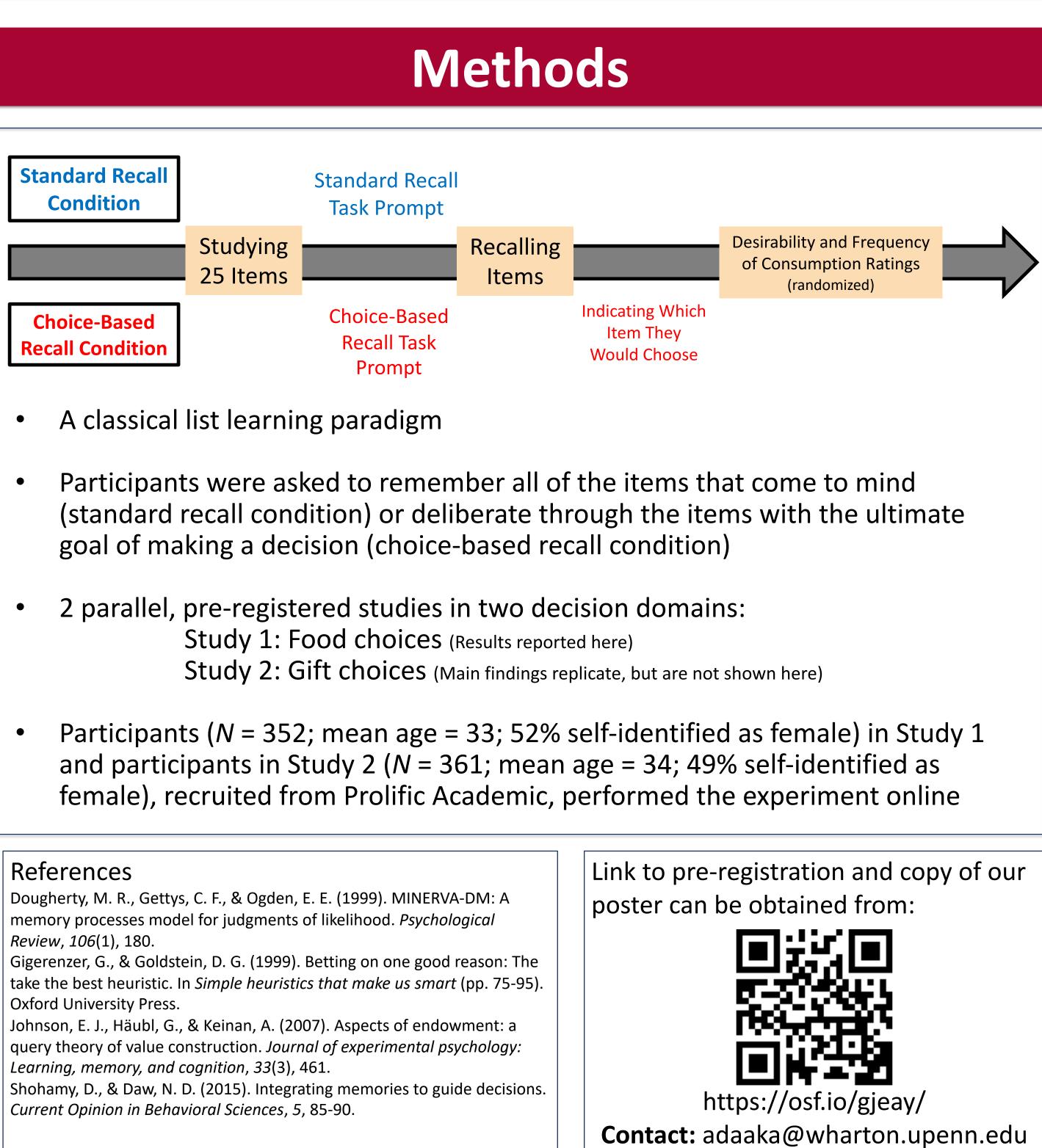


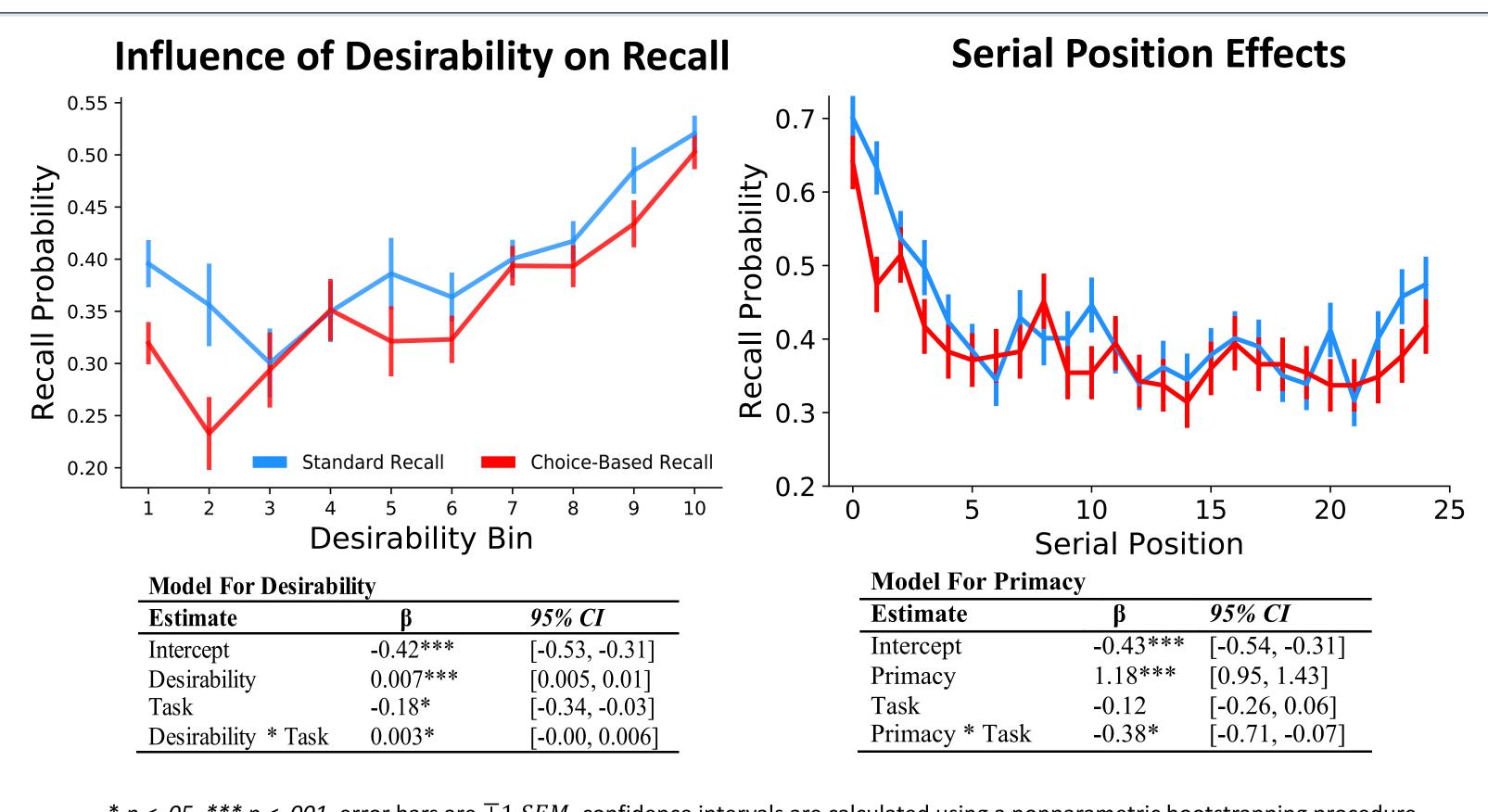
# What I Like Is What I Remember: Memory Modulation in Preferential Choice Ada Aka and Sudeep Bhatia The Wharton School, University of Pennsylvania

### Introduction

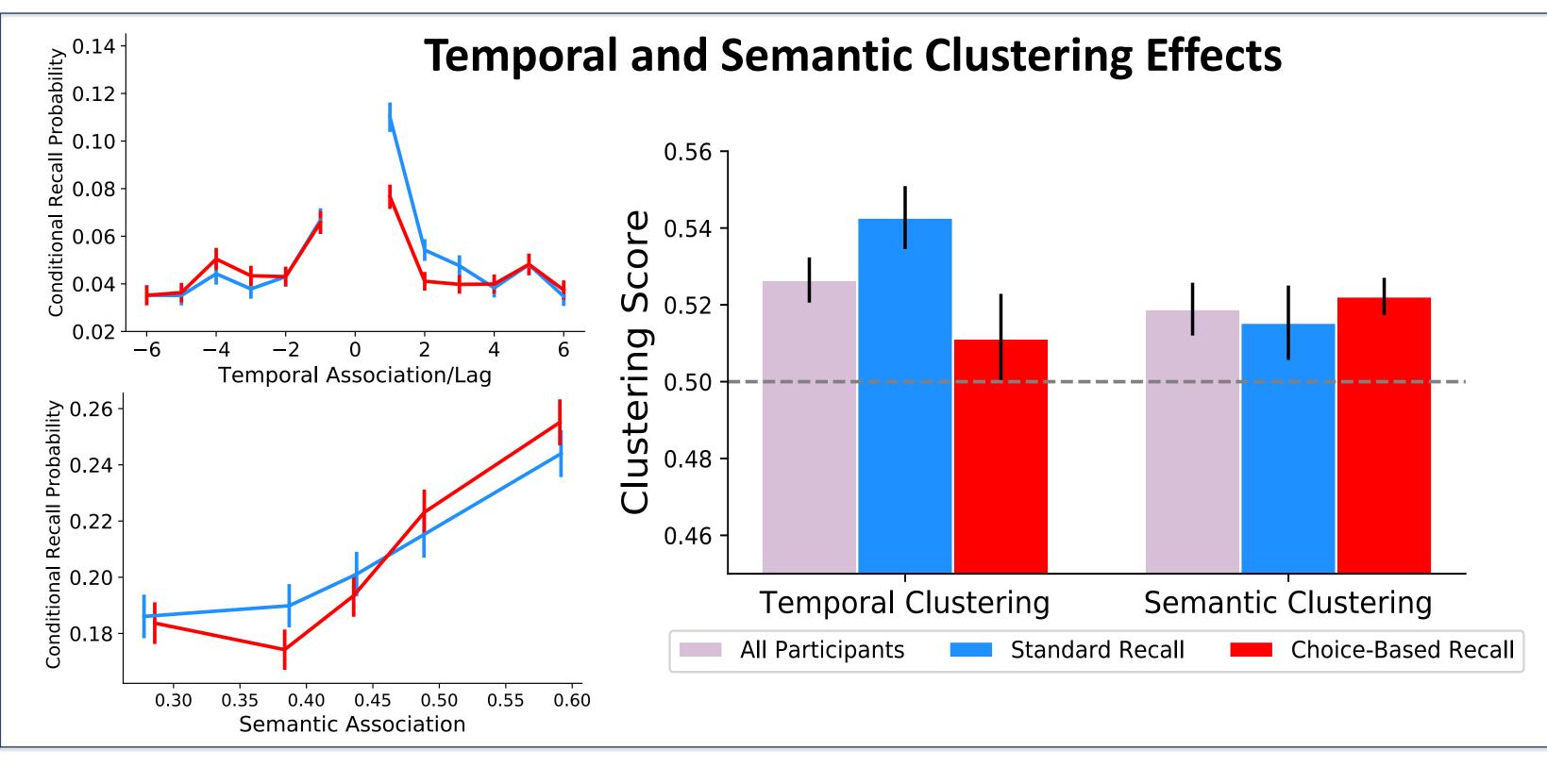




# **Determinants of Absolute Recall**

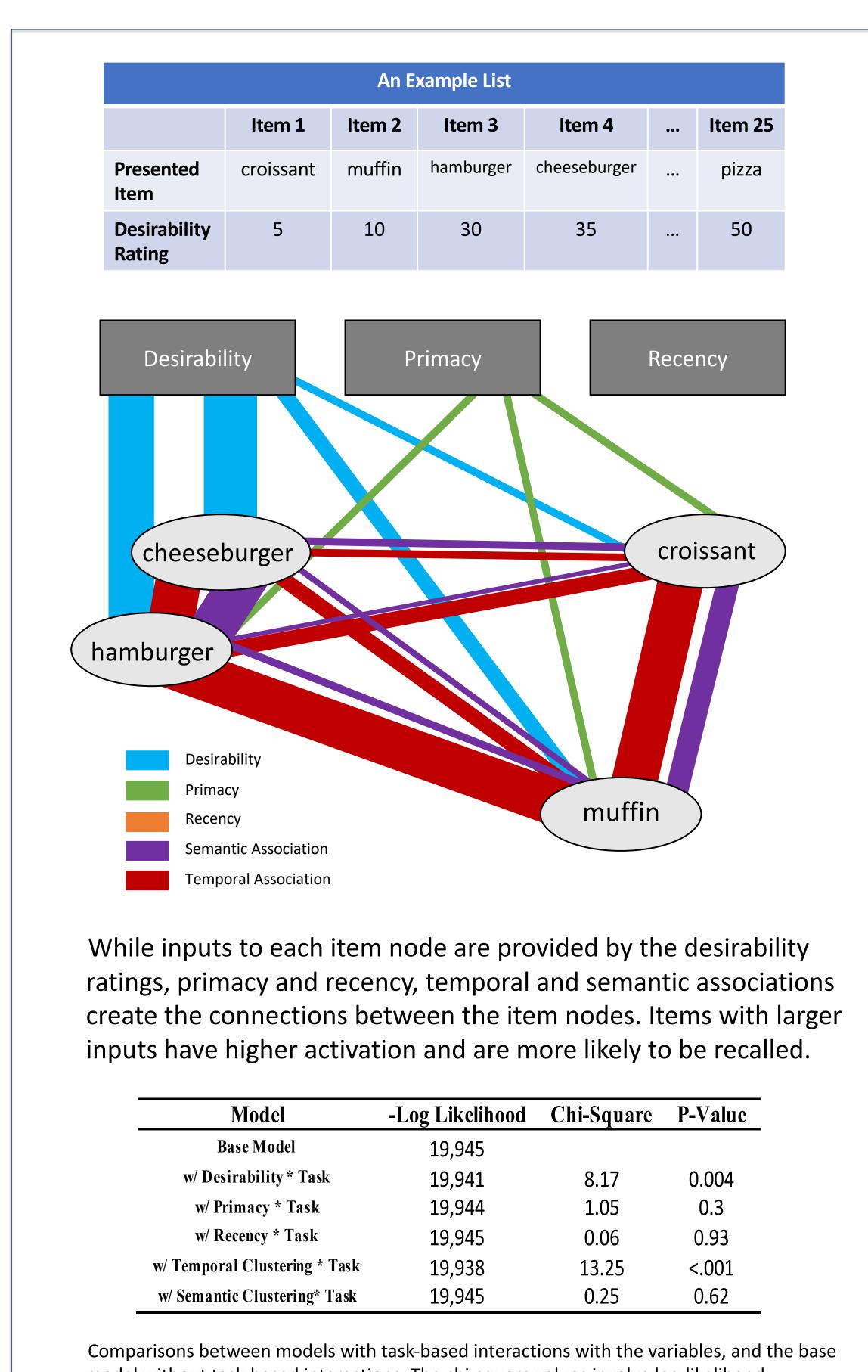


### **Determinants of Conditional Recall**



- persist during decision making.
- elements of memory organization, such as temporal structure.
- the choices of individuals.

\* *p* < .05, \*\*\* *p* < .001, error bars are  $\pm 1$  SEM, confidence intervals are calculated using a nonparametric bootstrapping procedure

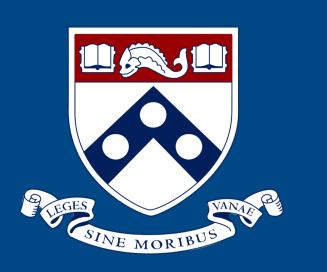


Conclusions

This report is the first to attempt a systematic examination of memory effects in standard recall and choice-based recall. We found evidence that traditional memory regularities such as the primacy effect, and the semantic and temporal clustering effects,

Critically, desirability is more pronounced and temporal clustering is less pronounced in choice-based recall, suggesting that preferential choice modulates memory by activating choice-relevant features of items, and diminishing the influence of other

We look forward to future work that applies theories from both memory and decision making research to influence and improve



## **Computational Memory Model**

odel	-Log Likelihood	Chi-Square	<b>P-Value</b>
Model	19,945		
bility * Task	19,941	8.17	0.004
acy * Task	19,944	1.05	0.3
ncy * Task	19,945	0.06	0.93
Clustering * Task	19,938	13.25	<.001
Clustering* Task	19,945	0.25	0.62

model without task-based interactions. The chi-square values involve log-likelihood differences between the base model and each of the remaining models, and indicate whether or not adding the task-based interaction for that variable results in superior fits.