Northwestern

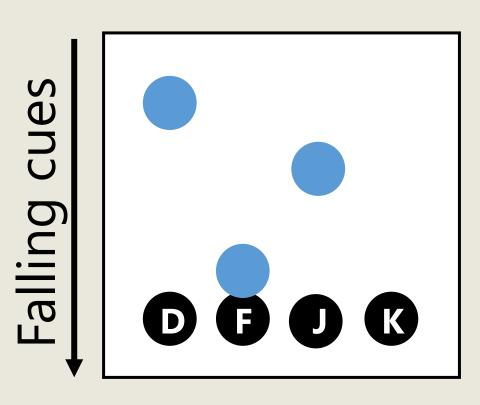
Introduction

explicit (declarative) and implicit (non-declarative)^{1,2,3}.

- is extracted automatically from experience^{6,7}.
- Auditorily cued sequence learning is not well-established

neural and cognitive mechanism?

implicit sequence learning.

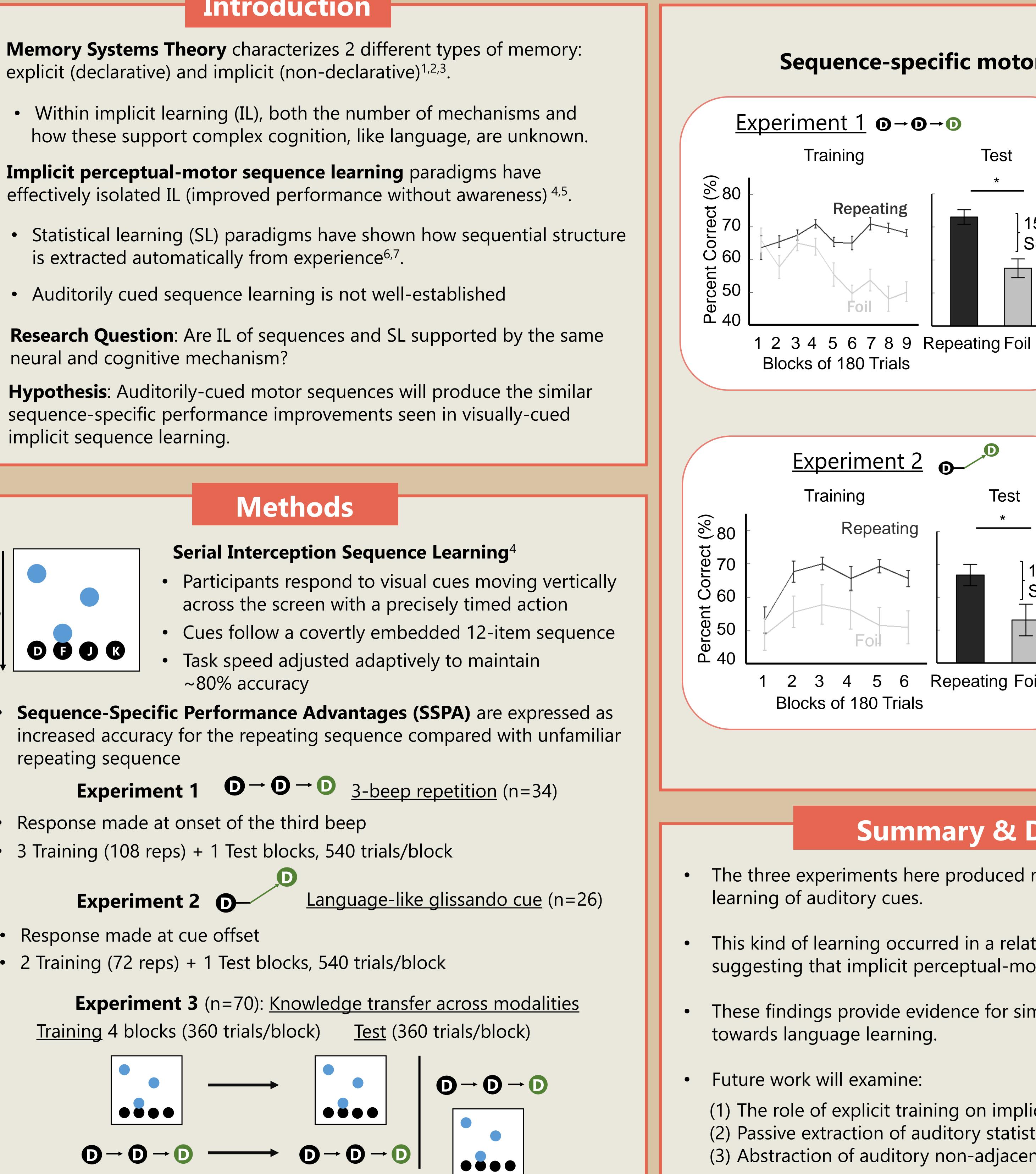


- ~80% accuracy
- repeating sequence

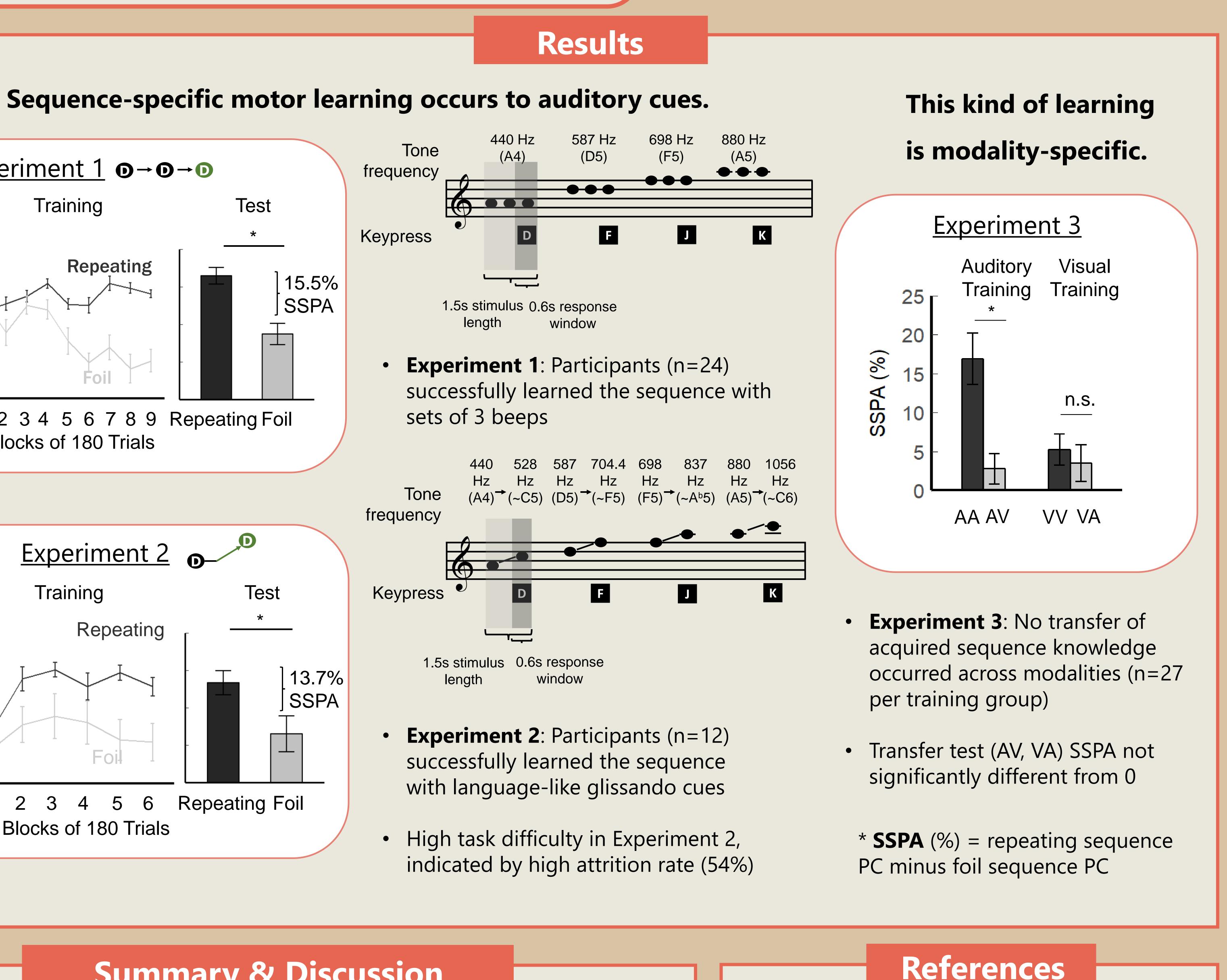
- Response made at onset of the third beep
- 3 Training (108 reps) + 1 Test blocks, 540 trials/block

- Response made at cue offset
- 2 Training (72 reps) + 1 Test blocks, 540 trials/block

Training 4 blocks (360 trials/block)



Implicit perceptual-motor learning of repeating auditory sequences Y. Catherine Han Paul J. Reber, Ph.D.



Summary & Discussion

The three experiments here produced robust implicit perceptual-motor

This kind of learning occurred in a relatively modality specific manner, suggesting that implicit perceptual-motor learning is not purely motoric.

These findings provide evidence for similar mechanisms underlying IL and SL

(1) The role of explicit training on implicit auditory sequence performance (2) Passive extraction of auditory statistical information (3) Abstraction of auditory non-adjacent dependencies



