

Learning Basic Set Operations: Union and Intersection

Hanit Galili^{1,2}, Avishai Henik^{2,3}

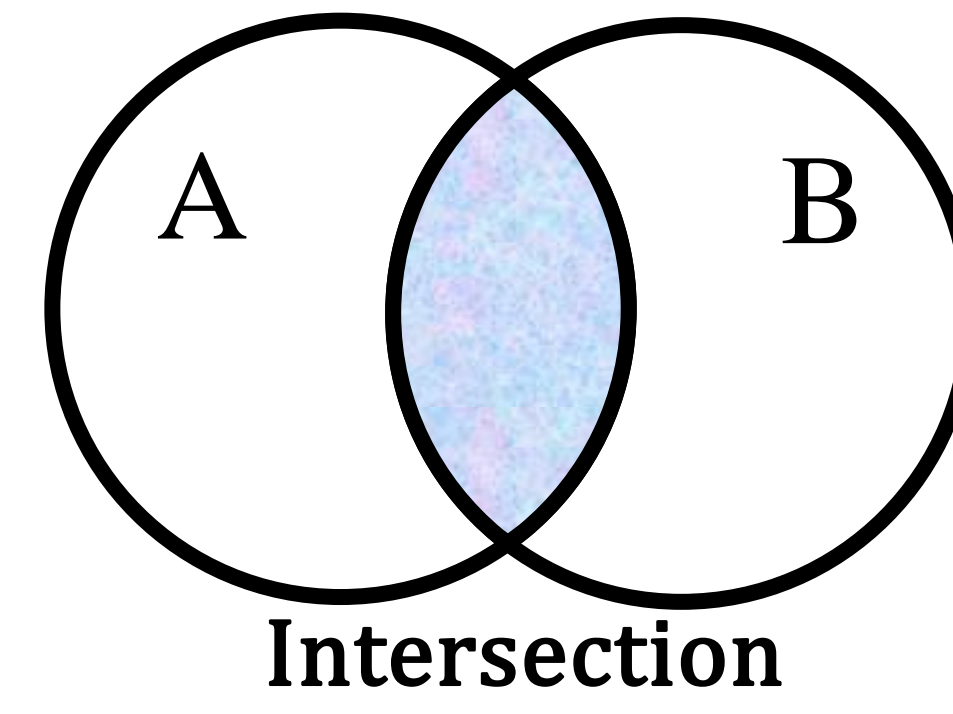
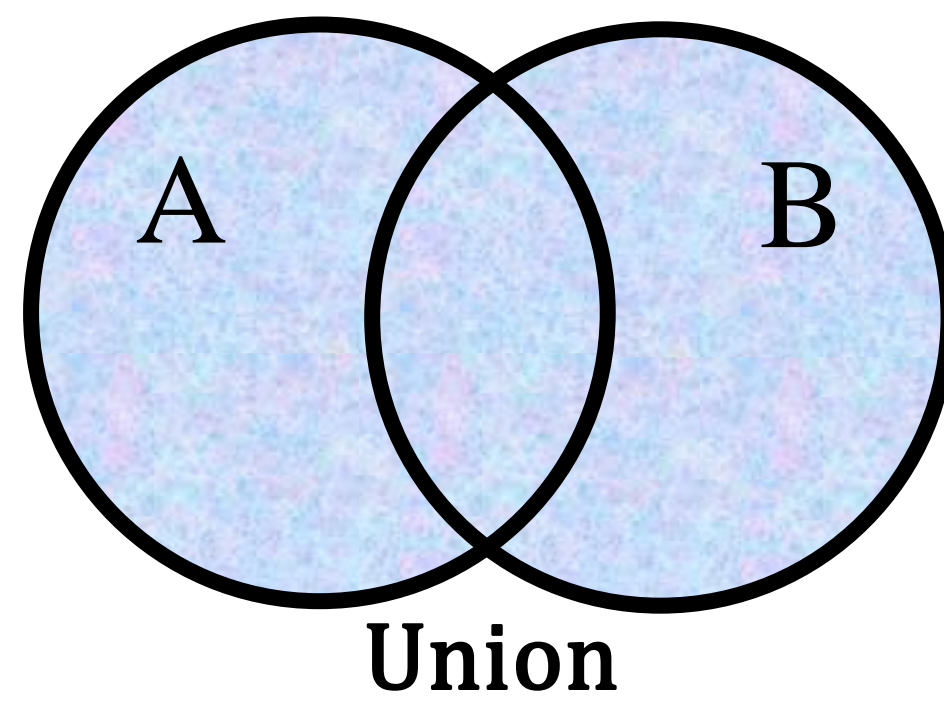
¹Department of Cognitive and Brain Sciences, ²Zlotowski Center for Neuroscience, ³Department of Psychology
Ben-Gurion University of the Negev, Beer-Sheva, Israel



Introduction

Two different operations:

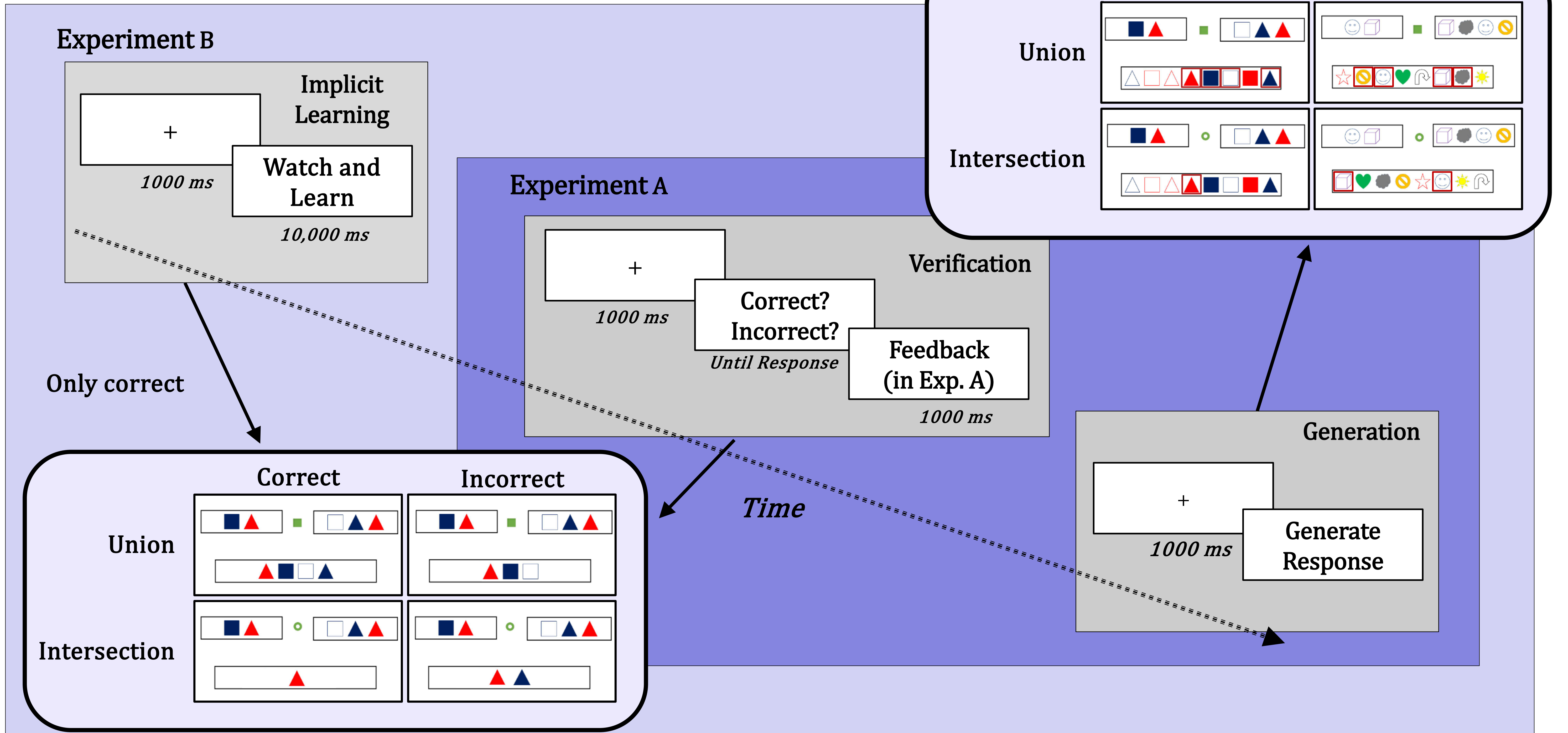
- Union
- Intersection



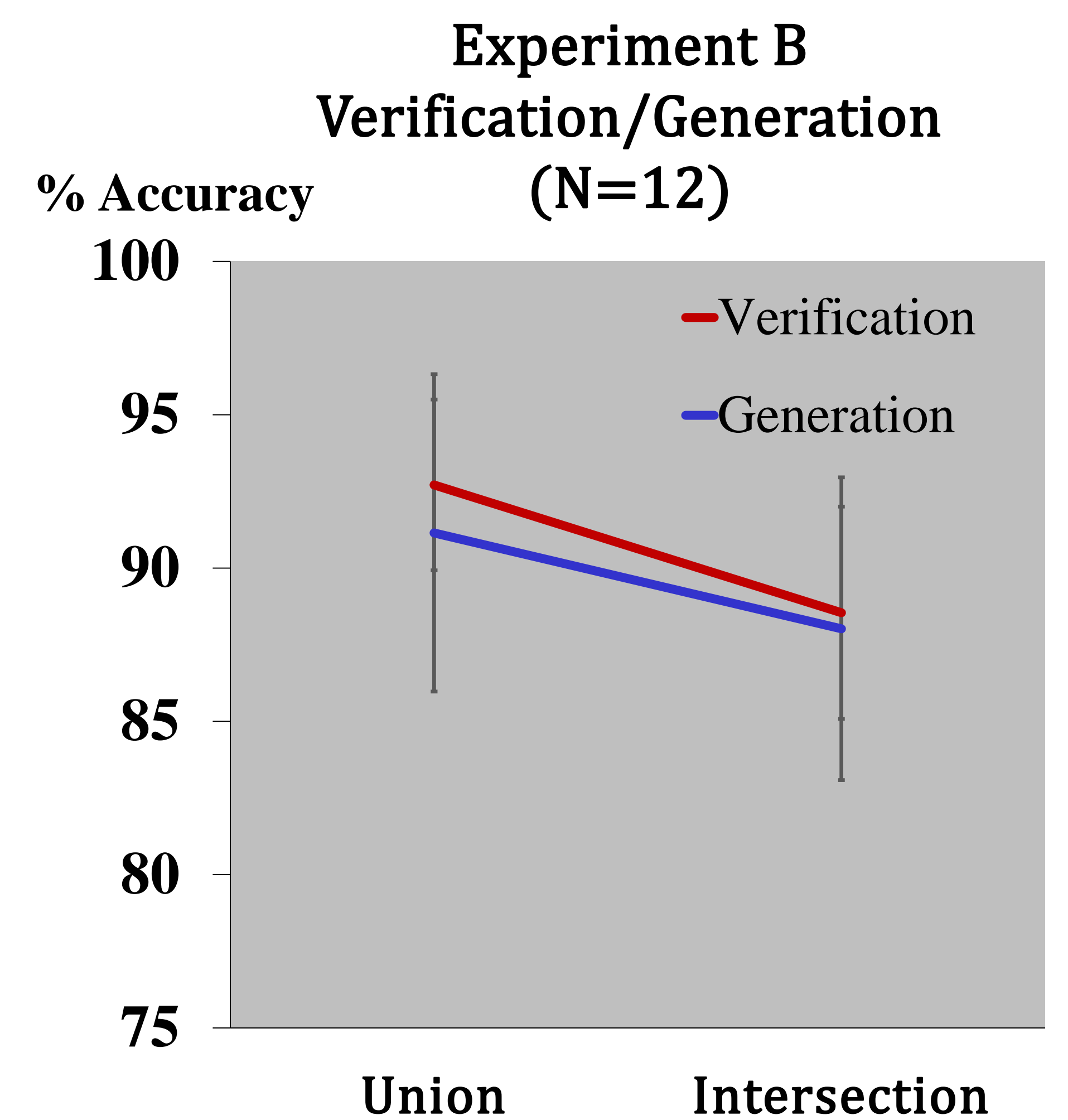
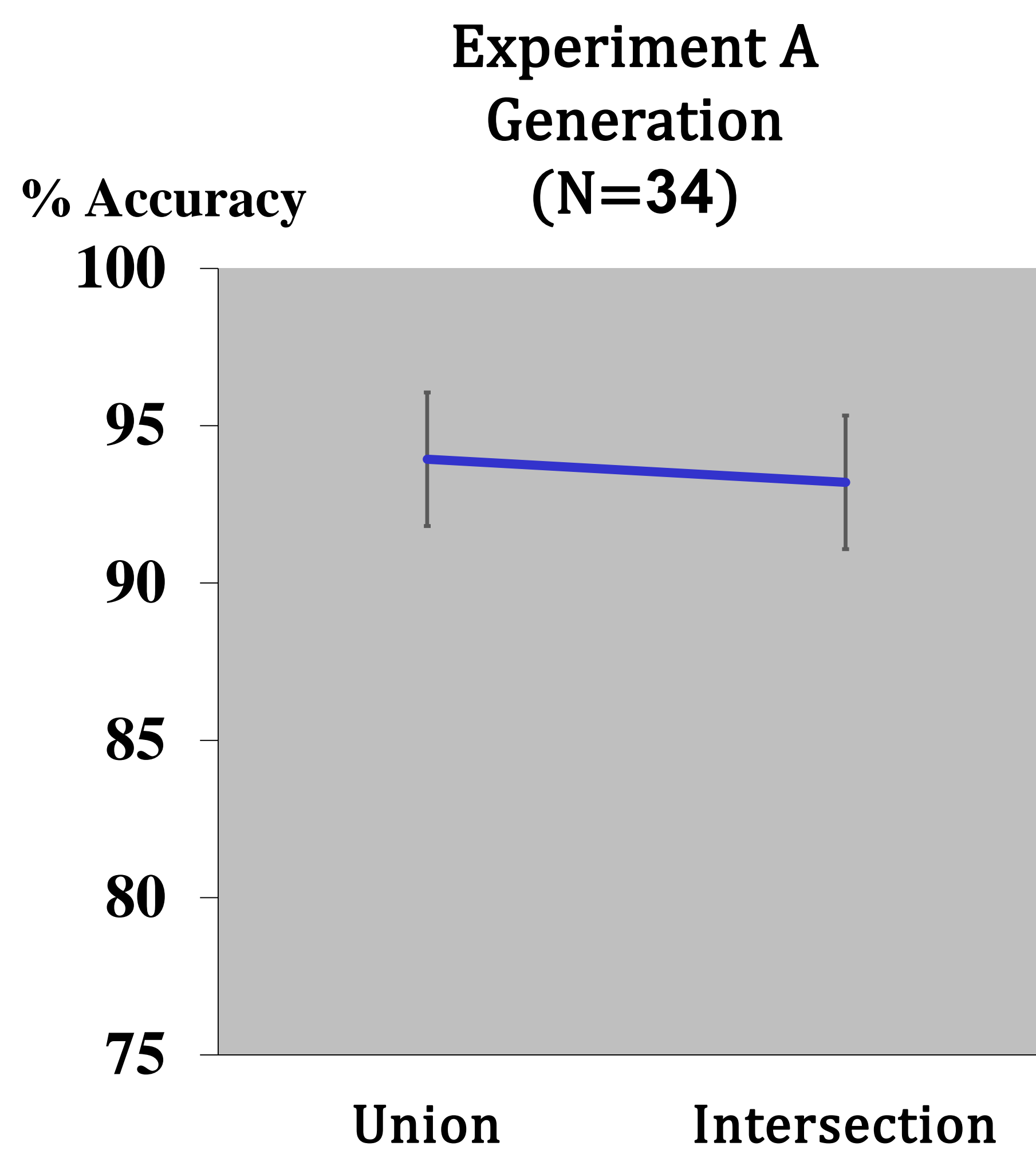
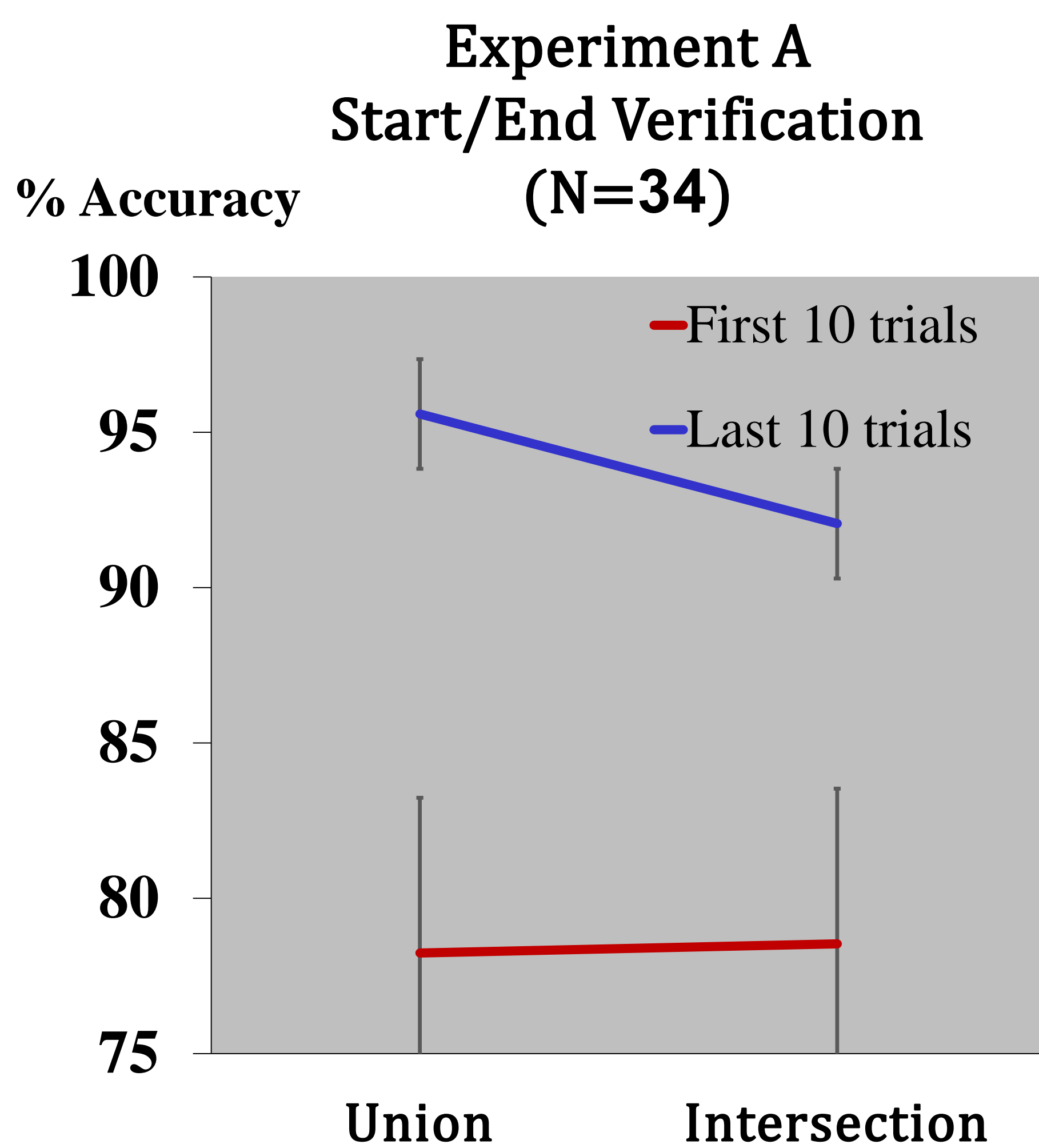
Two different methods:

- Learning from feedback (Exp. A)
- Implicit learning (Exp. B)

Method



Results



Discussion

- Preliminary results indicate that both methods resulted in similar learning outcomes. This may suggest feedback is not mandatory for learning the union and intersection operations.
- No difference in learning outcomes was found between learning union and learning intersection.

What next?

Is there a link between mathematics skills and the level of understanding basic set theory operations?

Read it online:



Email: hanit.galili@gmail.com