UNIVERSITY of <u>GUELPH</u>

## Background and Rationale

Judgments of learning (JOLs) refer to an individual's predictions of future memory performance based on their evaluation of prior learning.

Increased *perceptual fluency* (i.e., subjective ease of processing) has been shown to inflate individuals' JOL ratings.

*Experience-based influences*: JOLs can be impacted by in-the-moment processing experiences that reflect properties intrinsic to experimental stimuli (i.e. perceptual fluency).

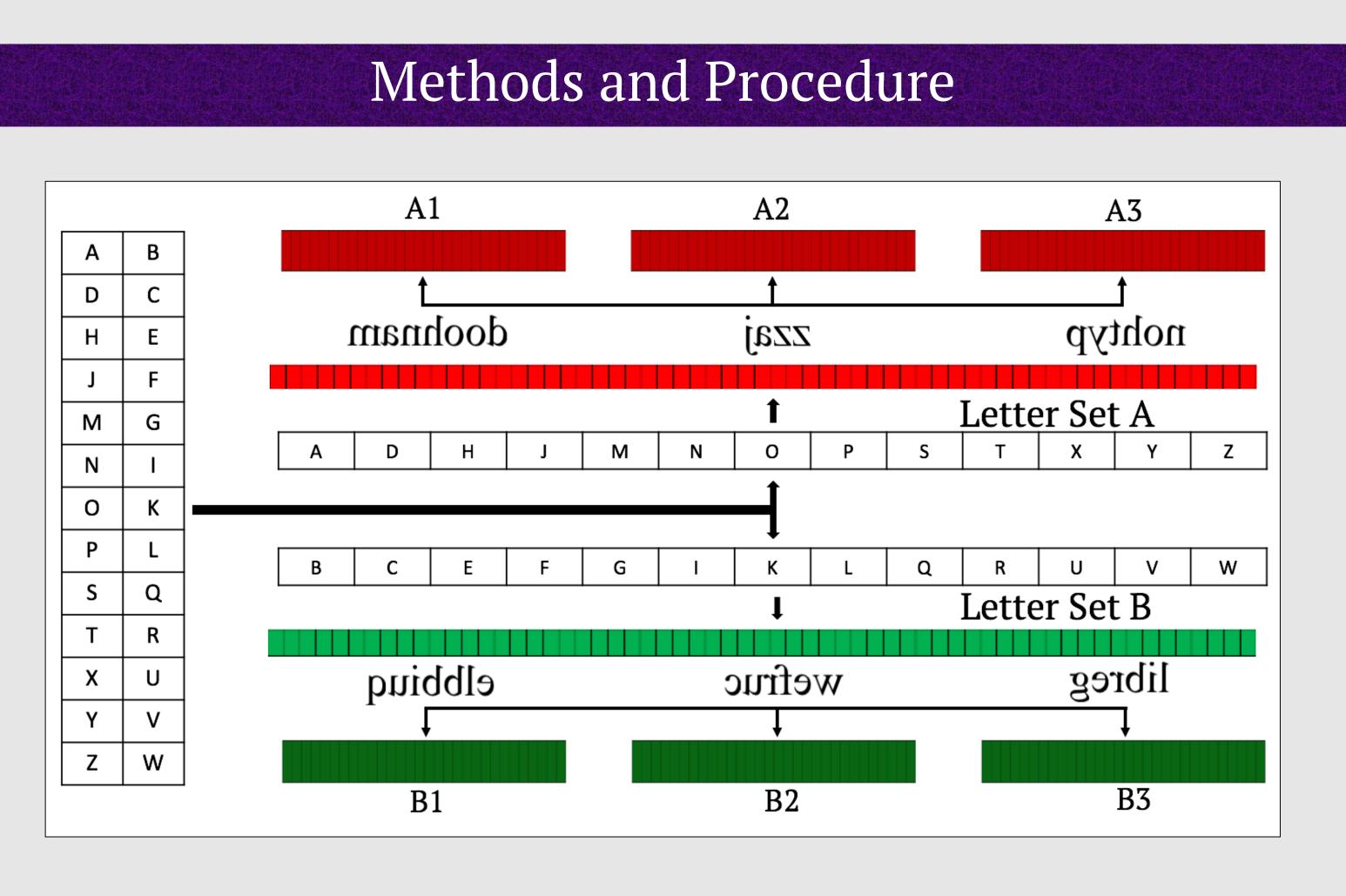
*Theory-based influences*: JOLs can be impacted by deliberate applications of prior knowledge or beliefs concerning how a given experimental manipulation affects memory performance (i.e. a belief that more fluent stimuli are easier to remember).

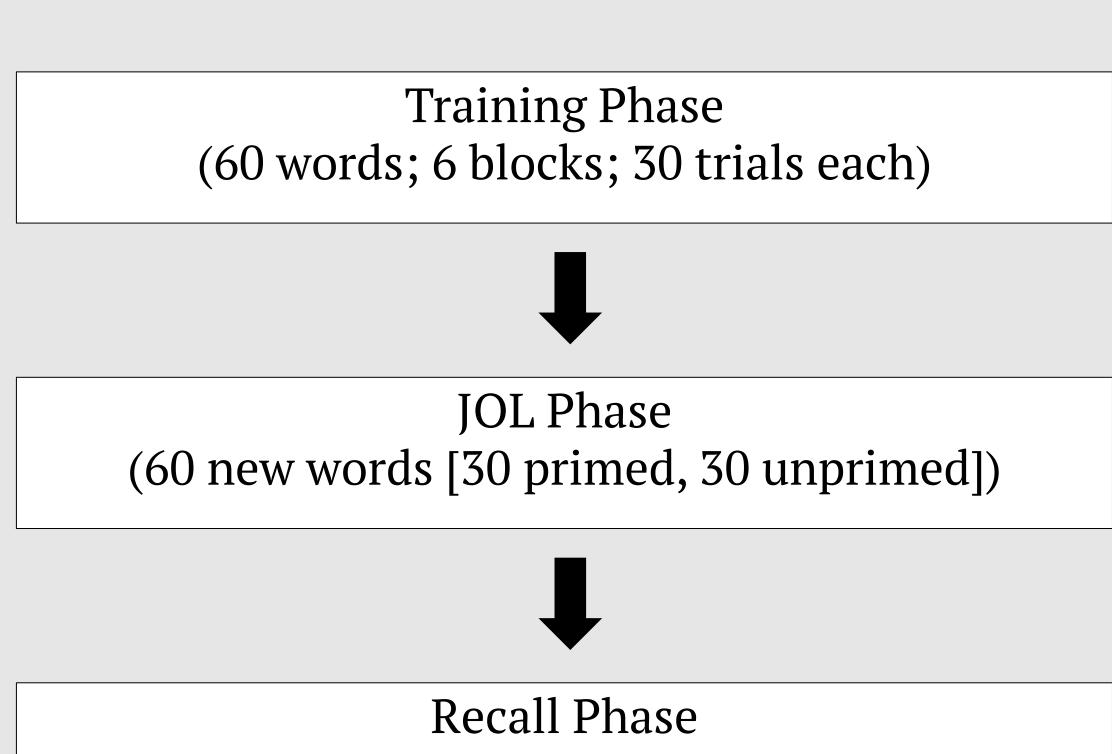
### **Experiment 1**

- Creating a manipulation of perceptual fluency that participants are unaware of
- Allows for examination of an exclusively experience-based influence of perceptual fluency on JOLs
- Any observed influences cannot be attributed to intuitive theories

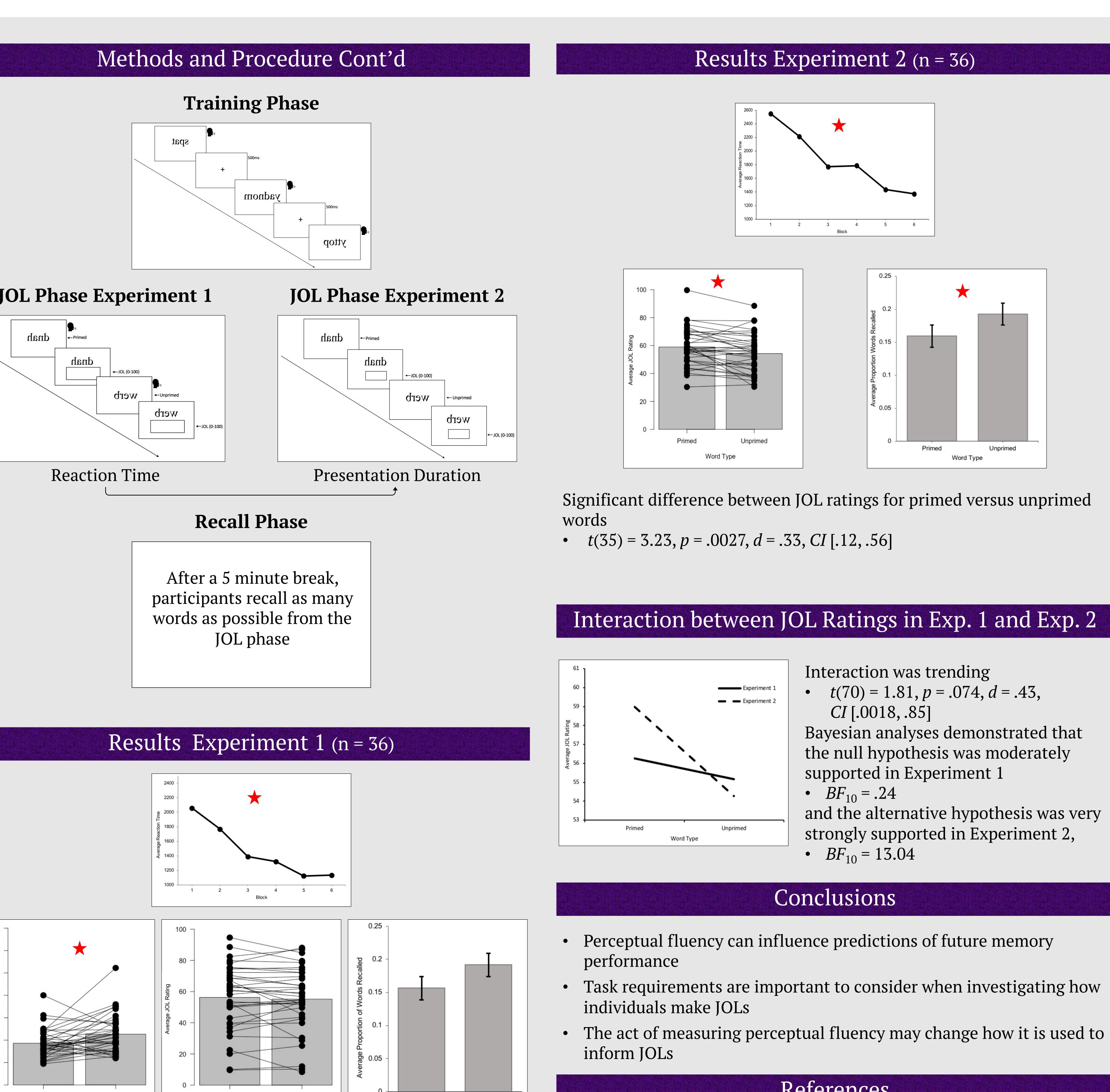
## **Experiment 2**

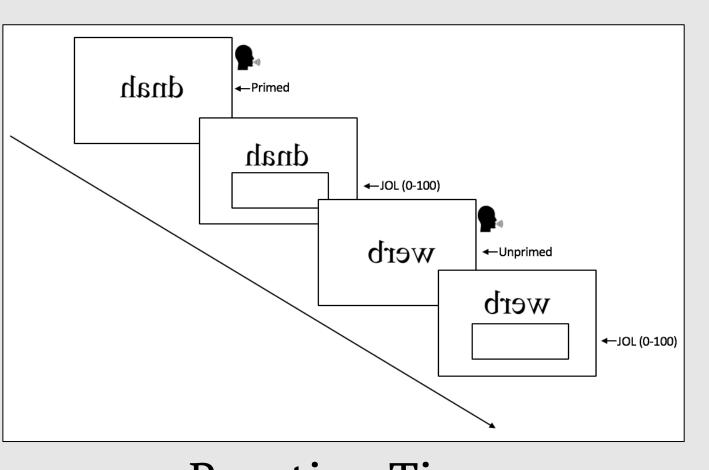
Removing pronunciation requirement may allow participants to use the increased perceptual fluency to guide JOLs

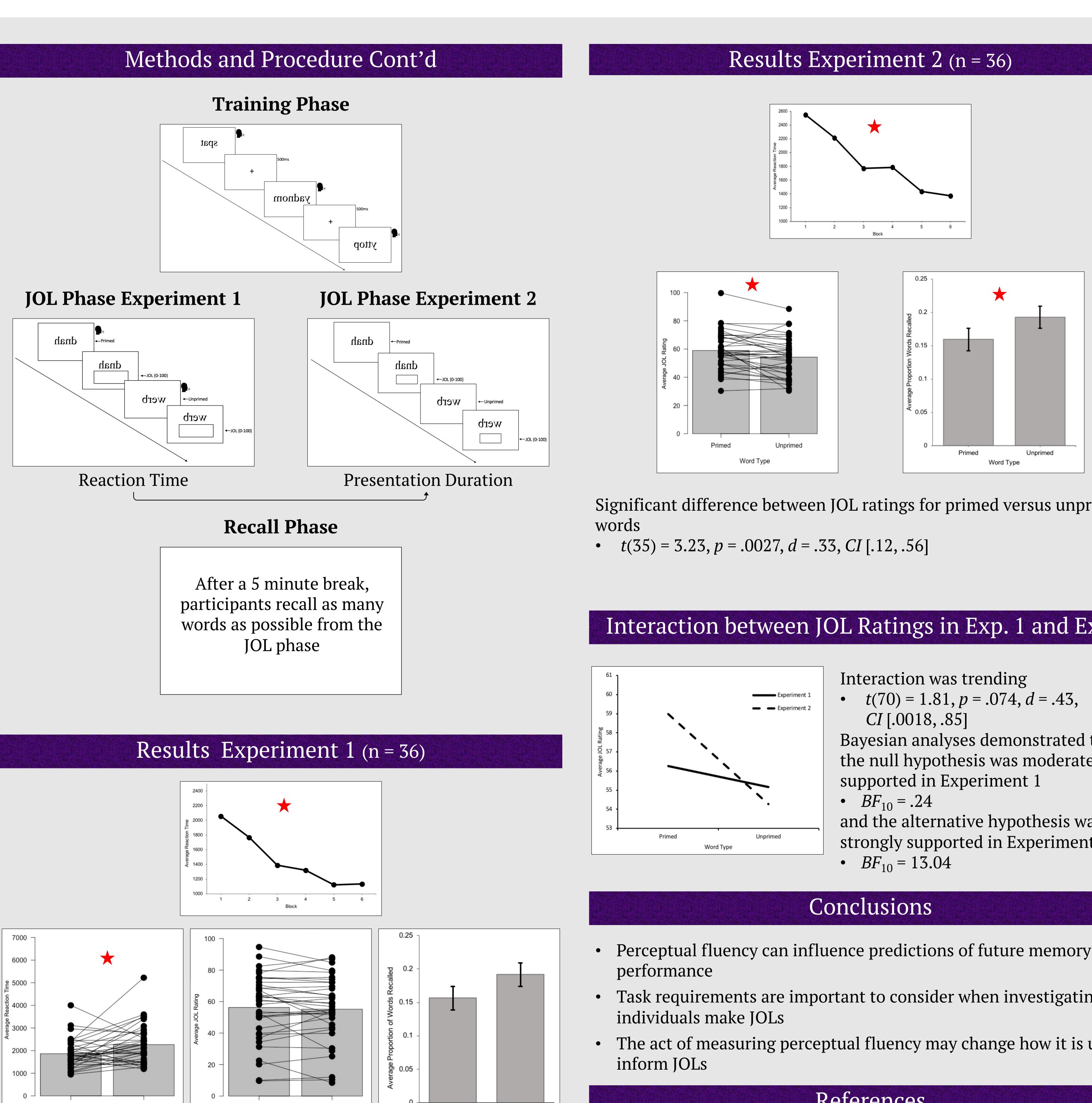


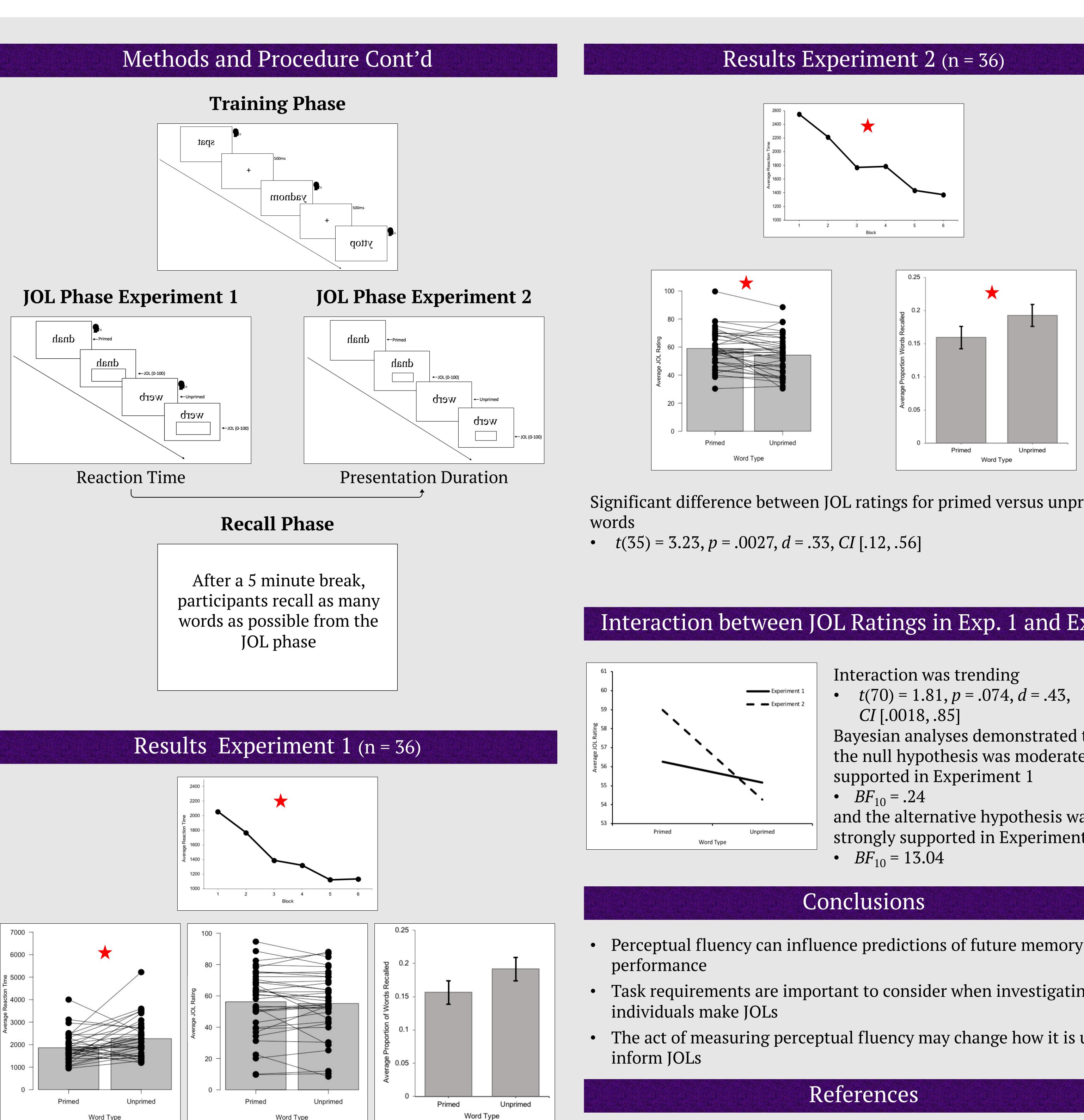


# When does Perceptual Fluency Influence Predictions of Future Memory Performance?









Significantly faster RTs for primed versus unprimed words • t(35) = 2.76, p = .005 (one-tailed), d = .54, CI[.13, .93]

Non-significant difference between JOL ratings for primed versus unprimed words • t(35) = .81, p = .42, d = .05, CI[-.05, .61]

and Cognition



		Experiment 1	
·		Experiment 2	
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e	Unprime	ed	

Bayesian analyses demonstrated that the null hypothesis was moderately and the alternative hypothesis was very strongly supported in Experiment 2,

Fiacconi, C. M., Mitton, E., Laursen, S. (in revision). Isolating the Contribution of Perceptual Fluency to Judgments of Learning. Journal of Experimental Psychology: Learning, Memory,

Koriat, A. (1997). Monitoring one's own knowledge during study: A cue-utilization approach to judgments of learning. Journal of Experimental Psychology: General, 126(4), 349-370. doi:10.1037/0096-3445.126.4.349

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