April 7, 2021

Aaron S. Benjamin, PhD

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Dear Dr. Benjamin:

Dr. Mark Huff and I are submitting our manuscript entitled “Reactivity from Judgments of Learning is Not Due to Memory Forecasting: Evidence from Associative Memory and Frequency Judgments” to be considered for publication as an original research article in the *Journal of Experimental Psychology: Learning, Memory, and Cognition*.

This paper investigates the reactive properties of judgments of learning (JOLs) by comparing cued-recall performance for participants making JOLs at encoding to a no-JOL group who engaged in silent reading at encoding. In doing so, Experiment 1 replicates previous researching showing a reactivity effect for related but not unrelated word pairs while extending these findings to include backward and symmetrical paired associates. Importantly, Experiments 2 and 3 compare JOL reactivity patterns to other, non-metacognitive judgment tasks

Our findings in Experiments 2 and 3 suggest that JOL reactivity on related pairs is largely driven by additional relational encoding that occurs at study.

Finally, Experiment 4

In our first experiment, we replicate previous research showing that JOLs consistently boost recall of paired associates but do not influence recall of unrelated pairs. To further evaluate the mechanisms behind positive reactivity for related pairs, Experiments 2 and 3 test a strategic relational encoding account of JOL reactivity which posits that making JOLs at encoding encourages participants to engage in a relational processing strategy at study but only for related pairs. To test this account, Experiment 2 compares JOL reactivity to a deep relational encoding task in which participants are explicitly instructed to relate all paired items together, and Experiment 3 introduces a novel frequency judgment task in which participants relate items together by judging the frequency with which items would occur together in everyday language.

We believe that our findings make a substantive empirical, methodological, and theoretical contribution to the literature through our inclusion of backward and symmetrical associates, our comparison to relational encoding and frequency judgments, and our proposed account of JOL reactivity. This work is original and not under review elsewhere. We report no conflicts of interest. We look forward to hearing about the suitability of our manuscript in the *Journal of Experimental Psychology: Learning, Memory, and Cognition*.

Sincerely,

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