

Tracking stimulus representation across a 2-back visual working memory task Quan Wan¹, Ying Cai², Jason Samaha³, Bradley R. Postle^{1,4}

¹Department of Psychology, University of Wisconsin-Madison; ²National Key Laboratory of Cognitive Neuroscience and Learning, Beijing Normal University, Beijing, China; ³Department of Psychology, University of California, Santa Cruz; ⁴Department of Psychiatry, University of Wisconsin-Madison

Background Lewis-Peacock et al. (2012)



between short-term memory and the focus of attention. Journal of Cognitive Neuroscience, 24(1): 61-79. van Loon, A.M., Olmos-Solis, K., Fahrenfort, J.J., & Olivers, C.N.L. (in press). Current and future goals are represented in opposite patterns in object-selective cortex. eLife. Yu, Q., & Postle, B.R. (2018). Different states of priority recruit different neural codes in visual working memory. bioRxiv: 334920. Email: qwan22@wisc.edu

Unprioritized memory items may be recoded into a distinct representational format, then decoded back into a "perceptual" format when needed to actively guide behavior. Consistent with other recent reports that UMIs are represented in a "reversed" or "opposite" representational format (van Loon et al., in press at eLife; Yu & Postle, bioRxiv). Supported by NIH MH064498

