

distractors. On the other hand, low-capacity subjects showed a P_D that was much smaller and occurred later. This finding indicates individuals with low working memory capacities were less able to suppress distracting information and were slower to do so.

When coupled with recent findings, Gaspar et al.'s (5) work sets the stage for a more nuanced understanding of why working memory ability varies. For example, although working memory capacity is known to be a stable trait of the individual, recent work has demonstrated that working memory performance fluctuates dramatically from moment to moment within a testing session (8).

In particular, low-capacity individuals have more frequent attentional lapses than high-capacity individuals, and this propensity to experience lapses contributes substantially to overall capacity estimates. In the absence of such lapse periods, low-capacity individuals can perform just as well as high-capacity individuals (8–10), suggesting that the waxing and waning of attentional control is critically important for determining working memory capacity. Thus, when coupled with Gaspar et al.'s (5) new findings, a more focused picture emerges in which low-capacity individuals are consistently inconsistent at tuning out distractions.

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- 1 Unsworth N, Fukuda K, Awh E, Vogel EK (2014) Working memory and fluid intelligence: Capacity, attention control, and secondary memory retrieval. *Cognit Psychol* 71:1–26.
 - 2 Engle RW, Tuholski SW, Laughlin JE, Conway AR (1999) Working memory, short-term memory, and general fluid intelligence: A latent-variable approach. *J Exp Psychol Gen* 128(3):309–331.
 - 3 Kane MJ, Engle RW (2003) Working-memory capacity and the control of attention: The contributions of goal neglect, response competition, and task set to Stroop interference. *J Exp Psychol Gen* 132(1):47–70.
 - 4 Kane MJ, Bleckley MK, Conway AR, Engle RW (2001) A controlled-attention view of working-memory capacity. *J Exp Psychol Gen* 130(2):169–183.
 - 5 Gaspar JM, Christie GJ, Prime DJ, Jolicoeur P, McDonald JJ (2016) Inability to suppress salient distractors predicts low visual working memory capacity. *Proc Natl Acad Sci USA* 113:3693–3698.
 - 6 Hickey C, Di Lollo V, McDonald JJ (2009) Electrophysiological indices of target and distractor processing in visual search. *J Cogn Neurosci* 21(4):760–775.
 - 7 Gaspar JM, McDonald JJ (2014) Suppression of salient objects prevents distraction in visual search. *J Neurosci* 34(16):5658–5666.
 - 8 Adam KCS, Mance I, Fukuda K, Vogel EK (2015) The contribution of attentional lapses to individual differences in visual working memory capacity. *J Cogn Neurosci* 27(8):1601–1616.
 - 9 Larson GE, Alderton DL (1990) Reaction time variability and intelligence: A “worst performance” analysis of individual differences. *Intelligence* 14(3):309–325.
 - 10 Unsworth N, McMillan BD (2014) Trial-to-trial fluctuations in attentional state and their relation to intelligence. *J Exp Psychol Learn Mem Cogn* 40(3):882–891.