

Comps Phase I, Question 2 Reading List
Area: Cognitive and Engineering Psychology

Topic: Executive function/Attention control

1. Braver T. S. (2012). The variable nature of cognitive control: A dual mechanisms framework. *Trends in cognitive sciences*, 16(2), 106–113. <https://doi.org/10.1016/j.tics.2011.12.010>
2. Conway, A. R. A., Kovacs, K., Hao, H., Rosales, K. P., & Snijder, J.-P. (2021). Individual Differences in Attention and Intelligence: A United Cognitive/Psychometric Approach. *Journal of Intelligence*, 9(3), 34. MDPI AG. Retrieved from <http://dx.doi.org/10.3390/intelligence9030034>
3. Diamond A. (2013). Executive functions. *Annual review of psychology*, 64, 135–168. <https://doi.org/10.1146/annurev-psych-113011-143750>
4. Hedge, C., Powell, G., & Sumner, P. (2018). The reliability paradox: Why robust cognitive tasks do not produce reliable individual differences. *Behavior research methods*, 50(3), 1166–1186. <https://doi.org/10.3758/s13428-017-0935-1>
5. Kane, M. J., & Engle, R. W. (2002). The role of prefrontal cortex in working-memory capacity, executive attention, and general fluid intelligence: An individual-differences perspective. *Psychonomic bulletin & review*, 9(4), 637–671. <https://doi.org/10.3758/bf03196323>
6. Miller, E. K., & Cohen, J. D. (2001). An integrative theory of prefrontal cortex function. *Annual review of neuroscience*, 24, 167–202.
7. Miyake, A., & Friedman, N. P. (2012). The Nature and Organization of Individual Differences in Executive Functions: Four General Conclusions. *Current directions in psychological science*, 21(1), 8–14. <https://doi.org/10.1177/0963721411429458>
8. Miyake, A., Friedman, N. P., Emerson, M. J., Witzki, A. H., Howerter, A., & Wager, T. D. (2000). The unity and diversity of executive functions and their contributions to complex "Frontal Lobe" tasks: A latent variable analysis. *Cognitive psychology*, 41(1), 49–100. <https://doi.org/10.1006/cogp.1999.0734>
9. Snijder, J. P., Tang, R., Bugg, J. M., Conway, A. R. A., & Braver, T. S. (2023). On the psychometric evaluation of cognitive control tasks: An Investigation with the Dual Mechanisms of Cognitive Control

(DMCC) battery. *Behavior research methods*, 1–36. Advance online publication.

<https://doi.org/10.3758/s13428-023-02111-7>

10. Tang, R., Bugg, J. M., Snijder, J. P., Conway, A. R., & Braver, T. S. (2023). The Dual Mechanisms of Cognitive Control (DMCC) project: Validation of an online behavioural task battery. *Quarterly journal of experimental psychology* (2006), 76(7), 1457–1480. <https://doi.org/10.1177/17470218221114769>
11. von Bastian, C. C., Blais, C., Brewer, G. A., Gyurkovics, M., Hedge, C., Kałamała, P., ... Wiemers, E. A. (2020, July 27). Advancing the understanding of individual differences in attentional control: Theoretical, methodological, and analytical considerations. <https://doi.org/10.31234/osf.io/x3b9k>
12. Mashburn, C. A., Barnett, M. K., & Engle, R. W. (2023, July 20). Processing Speed and Executive Attention as Causes of Intelligence. *Psychological Review*. Advance online publication.
<https://dx.doi.org/10.1037/rev0000439>
13. Burgoyne, A. P., Tsukahara, J. S., Mashburn, C. A., Pak, R., & Engle, R. W. (2023, April 20). Nature and Measurement of Attention Control. *Journal of Experimental Psychology: General*. Advance online publication. <https://dx.doi.org/10.1037/xge0001408>
14. Pak, R., McLaughlin, A. C., & Engle, R. (2023). The Relevance of Attention Control, Not Working Memory, in Human Factors. *Human factors*, 187208231159727. Advance online publication.
<https://doi.org/10.1177/00187208231159727>
15. Burgoyne, A., Martin, J., Mashburn, C., Tsukahara, J., Draheim, C., & Engle, R. (2022). Measuring Individual Differences in Working Memory Capacity and Attention Control and Their Contribution to Language Comprehension. In J. Schwieter & Z. Wen (Eds.), *The Cambridge Handbook of Working Memory and Language* (Cambridge Handbooks in Language and Linguistics, pp. 247-272). Cambridge: Cambridge University Press. doi:10.1017/9781108955638.015
16. Draheim, C., Pak, R., Draheim, A. A., & Engle, R. W. (2022). The role of attention control in complex real-world tasks. *Psychonomic bulletin & review*, 29(4), 1143–1197. <https://doi.org/10.3758/s13423-021-02052-2>

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24. Riddle, J., Vogelsang, D. A., Hwang, K., Cellier, D., and D Esposito, M. (2020). Distinct Oscillatory Dynamics Underlie Different Components of Hierarchical Cognitive Control. *J. Neurosci.* 40, 4945–4953. doi: 10.1523/JNEUROSCI.0617-20.2020
25. Thiebaut de Schotten, M., Urbanski, M., Batrancourt, B., Levy, R., Dubois, B., et al. (2017). Rostro-caudal Architecture of the Frontal Lobes in Humans. *Cereb. Cortex* 27:4047. doi: 10.1093/cercor/bhw215
26. Voytek, B., Kayser, A. S., Badre, D., Fegen, D., Chang, E. F., Crone, N. E., et al. (2015). Oscillatory dynamics coordinating human frontal networks in support of goal maintenance. *Nat. Neurosci.* 18, 1318–1324. doi: 10.1038/nn.4071