Cognitive Control/Working Memory Reading List (n=45)

Current Committee Members: Susan Ravizza (chair), Erik Altmann, Zach Hambrick

Frontal lobe function in cognitive control

1. Frith, C. D., Friston, K., Liddle, P. F., & Frackowiak, R. S. J. (1991). Willed Action and the Prefrontal Cortex in Man: A Study with PET. Proceedings: Biological Sciences, 244(1311), 241-246.
2. Miller, E. K., & Cohen, J. D. (2001). An integrative theory of prefrontal cortex function. Annual Review of Neuroscience, 24(1), 167-202.
3. Hazy, T.E., Frank, M.J. & O'Reilly, R.C. (2007). Toward an executive without a homunculus: Computational models of the prefrontal cortex/basal ganglia system. Philosophical Transactions of the Royal Society - B, 362, 1601-1613.
4. Badre, D., & D'Esposito, M. (2009). Is the rostro-caudal axis of the frontal lobe hierarchical? Nat Rev Neurosci, 10(9), 659-669. [Review]

Working memory

Antecedents of Working Memory

1. Miller (1956). The magical number seven, plus or minus two: Some limits on our capacity for processing information. Psychological Review, 63, 81-97.
2. Atkinson & Shiffrin (1971). The control of short-term memory. Scientific American, August, Vol. 225(2): 82-90

The Emergence of Working Memory

3. Baddeley & Hitch (1974). Working memory. In G. A. Bower (Ed.), The psychology of learning and motivation (vol. 8, pp. 47-89). New York: Academic Press.

Prominent Models of Working Memory

4. Baddeley (2000). The episodic buffer: A new component of working memory? Trends in Cognitive Sciences, 4, 417-423.
5. Cowan (1999). An embedded-process model of working memory. In A. Miyake & P. Shah (Eds.), Models of working memory: Mechanisms of active maintenance and executive control (pp. 62-101). New York: Cambridge University Press.
6. Cowan, N. (2010). The magical mystery four: How is working memory capacity limited, and why? Current Directions in Psychological Science.
7. Engle, R. W. (2002). Working memory capacity as executive attention. Current Directions in Psychological Science, 11, 19-23.
8. Engle, R. W. (2018). Working memory and executive attention: A revisit. Perspectives on Psychological Science, 13, 190-193.
9. Cowan et al. (2018). Benchmarks for models of short term and working memory. Psychological Bulletin.

Working Memory Span

10. Daneman & Carpenter (1980). Individual differences in working memory and reading. Journal of Verbal Learning and Verbal Behavior, 19, 450-466. Psychometric Approaches: Working Memory and Intelligence
11. Kyllonen, P. C., & Christal, R. E. (1990). Reasoning ability is (little more than) working-memory capacity?! Intelligence.
12. Ackerman, P. L., Beier, M. E., & Boyle, M. O. (2005). Working memory and intelligence: The same or different constructs? Psychological Bulletin, 131, 30-60.
13. Conway, A. R. A., & Kovacs, K. (2013). Individual differences in intelligence and working memory: A review of latent variable models. Psychology of Learning and Motivation, 58, 233-270.
14. Salthouse, T. A., & Pink, J. (2008). Contextual analysis of fluid intelligence. Intelligence, 36, 464-486.
15. Zhang, W., & Luck, S. J. (2008). Discrete fixed-resolution representations in visual working memory. *Nature*, *453*(7192), 233.
16. Bays, P. M., & Husain, M. (2008). Dynamic shifts of limited working memory resources in human vision. *Science*, *321*(5890), 851-854.

Working Memory and the Brain

17. O'Reilly, Braver & Cohen (1999). A biologically-based computational model of working memory. In A. Miyake & P. Shah (Eds.), Models of working memory: Mechanisms of active maintenance and executive control (pp. 375-411). New York: Cambridge University Press.
18. 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 and Review, 9, 637-671.
19. McNab, F., and Klingberg, T. (2008). Prefrontal cortex and basal ganglia control access to working memory. Nat Neurosci 11, 103-107. [103]
20. Harrison, S. A., & Tong, F. (2009). Decoding reveals the contents of visual working memory in early visual areas. *Nature*, *458*(7238), 632-635.
21. Buchsbaum, B. R., & D'Esposito, M. (2008). The search for the phonological store: from loop to convolution. *Journal of Cognitive Neuroscience*, *20*(5), 762-778.
22. Bettencourt, K. C., & Xu, Y. (2016). Decoding the content of visual short-term memory under distraction in occipital and parietal areas. *Nature Neuroscience*, *19*(1), 150.
23. Lee S.-H., Kravitz D. J., Baker C. I. (2013). Goal-dependent dissociation of visual and prefrontal cortices during working memory. Nat. Neurosci. 16, 997–999.

Monitoring functions/sequential processing

1. Kerns, J. G., Cohen, J. D., MacDonald, A. W., Cho, R. Y., Stenger, V. A., & Carter, C. S. (2004). Anterior Cingulate Conflict Monitoring and Adjustments in Control. Science, 303(5660), 1023-1026.

2. Brown, J. W., & Braver, T. S. (2005). Learned Predictions of Error Likelihood in the Anterior Cingulate Cortex. Science, 307(5712), 1118-1121.
3. Hommel, B., Müsseler, J., Aschersleben, G., & Prinz, W. (2001). The theory of event coding (TEC): A framework for perception and action planning. Behavioral and Brain Sciences, 24(5), 849-937.
4. Cooper, R. P., & Shallice, T. (2006). Hierarchical schemas and goals in the control of sequential behavior. Psychological Review, 113(4), 887-916.

Task switching/Multi-tasking:

1. Rogers, R. D., & Monsell, S. (1995). Costs of a predictible switch between simple cognitive tasks. Journal of Experimental Psychology: General, 124(2), 207-231.
2. Kiesel, A., Steinhauser, M., Wendt, M., Falkenstein, M., Jost, K., Philipp, A. M., & Koch, I. (2010). Control and interference in task switching-A review. Psychological Bulletin, 136(5), 849-874
3. Meiran, N. (1996). Reconfiguration of processing mode prior to task performance. Journal of Experimental Psychology: Learning, Memory, and Cognition 22, 1423-1442.
4. Yeung, N., Nystrom, L.E., Aronson, J.A., and Cohen, J.D. (2006). Between-task competition and cognitive control in task switching. J Neurosci 26, 1429-1438.
5. Aron, A.R., Monsell, S., Sahakian, B.J., and Robbins, T.W. (2004). A componential analysis of task-switching deficits associated with lesions of left and right frontal cortex. Brain 127, 1561-1573.
6. Salvucci, D. D., & Taatgen, N. A. (2008). Threaded cognition: An integrated theory of concurrent multitasking. Psychological Review, 115(1), 101-130.
7. Strayer, D. L., Drews, F. A., & Johnston, W. A. (2003). Cell phone-induced failures of visual attention during simulated driving. Journal of Experimental Psychology: Applied, 9(1), 23-32.
8. Pashler, H. (1994). Dual-task interference in simple tasks: Data and theory. Psychological Bulletin, 116, 220-244.

Inhibition

1. MacLeod, C. M., Dodd, M. D., Sheard, E. D., Wilson, D. E., & Bibi, U. (2003). In opposition to inhibition. In H. Ross (Ed.), The psychology of learning and motivation (Vol. 43, pp. 163-214).
2. Milliken, B., & Tipper, S. P. (1998). Attention and inhibition. In H. Pashler (Ed.), Attention. (pp. 191-221). Hove, England: Psychology Press/Erlbaum (UK) Taylor & Francis.
3. Wegner, D. M. (1994). Ironic processes of mental control. Psychological Review, 101(1), 34-52.
4. Aron, A.R., Robbins, T.W., and Poldrack, R.A. (2004). Inhibition and the right inferior frontal cortex. Trends Cogn Sci 8, 170-17 [528]
5. Picton, T.W., Stuss, D.T., Alexander, M.P., Shallice, T., Binns, M.A., and Gillingham, S. (2007). Effects of focal frontal lesions on response inhibition. Cereb Cortex 17, 826-838.

Suggested Journals:

Behavioral and Brain Sciences
Cognition
Cognitive Psychology
JEP:General
JEP:HPP
JEP:LMC
Journal of Cognitive Neuroscience
Memory and Cognition
Nature Neuroscience
Psychological Research
Psychological Science
Trends in Cognitive Science

Suggested background reading:

- Working Memory, Thought, and Action – Alan Baddeley
- Chapter 13, "Cognitive Control" in Cognitive Neuroscience: The Biology of the Mind. – Gazzaniga, Ivry, & Mangun