

# PSYC3209: Cognitive Neuroscience

This reading list belongs to the advanced undergraduate level Psychology course named "Cognitive Neuroscience" (PSYC3209). The course is also taken by Masters students (PSYCG209/PSYCM209). The associated Moodle page is <https://moodle.ucl.ac.uk/course/view.php?id=22137>

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Adolphs, Ralph. 2003. 'Cognitive Neuroscience: Cognitive Neuroscience of Human Social Behaviour'. *Nature Reviews Neuroscience* 4 (3): 165–78. <https://doi.org/10.1038/nrn1056>.

Bandettini, Peter A. 2009. 'What's New in Neuroimaging Methods?' *Annals of the New York Academy of Sciences* 1156 (1): 260–93. <https://doi.org/10.1111/j.1749-6632.2009.04420.x>.

Bechara, A., H Damasio, and AR Damasio. 2000. 'Emotion, Decision Making and the Orbitofrontal Cortex'. *Cerebral Cortex* 10 (3): 295–307.  
<https://doi.org/10.1093/cercor/10.3.295>.

Behrens, Timothy E.J., Peter Fox, Angie Laird, and Stephen M. Smith. 2013. 'What Is the Most Interesting Part of the Brain?' *Trends in Cognitive Sciences* 17 (1): 2–4.  
<https://doi.org/10.1016/j.tics.2012.10.010>.

Benton, Arthur L. 1994. 'Neuropsychological Assessment'. *Annual Review of Psychology* 45 (1): 1–23. <https://doi.org/10.1146/annurev.ps.45.020194.000245>.

Bueti, D., and V. Walsh. 2009. 'The Parietal Cortex and the Representation of Time, Space, Number and Other Magnitudes'. *Philosophical Transactions of the Royal Society B: Biological Sciences* 364 (1525): 1831–40. <https://doi.org/10.1098/rstb.2009.0028>.

Burgess, PW, N Alderman, E Volle, RG Benoit, and SJ Gilbert. 2009. 'Mesulam's Frontal Lobe Mystery Re-Examined'. *Restorative Neurology and Neuroscience* 27 (5): 493–506. <https://doi.org/10.3233/RNN-2009-0511>.

Butterworth, Brian, and Vincent Walsh. 2011. 'Neural Basis of Mathematical Cognition'. *Current Biology* 21 (16): R618–21. <https://doi.org/10.1016/j.cub.2011.07.005>.

Cappelletti, Marinella, Rebecca Chamberlain, Elliot D. Freeman, Ryota Kanai, Brian Butterworth, Cathy J. Price, and Geraint Rees. 2013. 'Commonalities for Numerical and Continuous Quantity Skills at Temporo-Parietal Junction'. *Journal of Cognitive Neuroscience*, December, 1–14. [https://doi.org/10.1162/jocn\\_a\\_00546](https://doi.org/10.1162/jocn_a_00546).

Cognitive Neuroscience: The Biology of the Mind. n.d. W. W. Norton & Company; 5th International student edition edition (5 Nov 2013).  
[https://www.amazon.co.uk/Cognitive-Neuroscience-Biology-Michael-Gazzaniga/dp/0393667812/ref=sr\\_1\\_3?crid=1TP7LE7TAQUZF&keywords=gazzaniga+cognitive+neuroscienc](https://www.amazon.co.uk/Cognitive-Neuroscience-Biology-Michael-Gazzaniga/dp/0393667812/ref=sr_1_3?crid=1TP7LE7TAQUZF&keywords=gazzaniga+cognitive+neuroscienc)

e+the+biology+of+the+mind&id=1579090487&sprefix=gazza%2Caps%2C146&sr=8-3.

Cohen, Noga, Liat Pell, Micah G. Edelson, Aya Ben-Yakov, Alex Pine, and Yadin Dudai. 2014. 'Peri-Encoding Predictors of Memory Encoding and Consolidation'. *Neuroscience & Biobehavioral Reviews*, November. <https://doi.org/10.1016/j.neubiorev.2014.11.002>.

Coles, Michael G. H. and Rugg, M. D. 1995. Event-Related Brain Potentials: An Introduction. Chapter 1 in *Electrophysiology of Mind: Event-Related Brain Potentials and Cognition*. Vol. Oxford psychology series. Oxford: Oxford University Press.

Corkin, Suzanne. 2002. 'TIMELINEWhat's New with the Amnesic Patient H.M.' *Nature Reviews Neuroscience* 3 (2): 153–60. <https://doi.org/10.1038/nrn726>.

Cyranoski, David. 2011. 'Neuroscience: Thought Experiment'. *Nature* 469 (7329): 148–49. <https://doi.org/10.1038/469148a>.

Decision Making. Chapter 24 of *Principles of Cognitive Neuroscience*. 2008. Sunderland, Mass: Sinauer Associates.

Devlin, J. T., and K. E. Watkins. 2007. 'Stimulating Language: Insights from TMS'. *Brain* 130 (3): 610–22. <https://doi.org/10.1093/brain/awl331>.

Duncan, John. 2001. 'An Adaptive Coding Model of Neural Function in Prefrontal Cortex'. *Nature Reviews Neuroscience* 2 (11): 820–29. <https://www.nature.com/articles/35097575>.

Duncan, Keith J., Chotiga Pattamadilok, and Joseph T. Devlin. 2010. 'Investigating Occipito-Temporal Contributions to Reading with TMS'. *Journal of Cognitive Neuroscience* 22 (4): 739–50. <https://doi.org/10.1162/jocn.2009.21207>.

Duverne, Sandrine, Shahab Motamedinia, and Michael D. Rugg. 2009. 'Effects of Age on the Neural Correlates of Retrieval Cue Processing Are Modulated by Task Demands'. *Journal of Cognitive Neuroscience* 21 (1): 1–17. <https://doi.org/10.1162/jocn.2009.21001>.

Frith, Uta, and Francesca Happé. 2005. 'Autism Spectrum Disorder'. *Current Biology* 15 (19): R786–90. <https://doi.org/10.1016/j.cub.2005.09.033>.

'Functional Magnetic Resonance Imaging. Chapter 9 in Methods in Mind (Cognitive Neuroscience). Bandettini, P. A.' n.d. In . MIT Press (18 Sep 2009). <http://www.amazon.co.uk/Methods-Mind-Cognitive-Neuroscience-Senior/dp/0262513439>.

Galli, Giulia, A. Dorothea Gebert, and Leun J. Otten. 2013. 'Available Processing Resources Influence Encoding-Related Brain Activity before an Event'. *Cortex* 49 (8): 2239–48. <https://doi.org/10.1016/j.cortex.2012.10.011>.

Gazzaniga, Ivry and Mangun. n.d. 'A Brief History of Cognitive Neuroscience. Chapter 1 of the Textbook.' In *A Brief History of Cognitive Neuroscience*. Chapter 1 in *Cognitive Neuroscience: The Biology of the Mind* [Paperback], 2–21. W. W. Norton & Company; 5th International student edition edition (5 Nov 2013).

Gazzaniga, Michael S., Richard B. Ivry, and George R. Mangun. 2014a. 'Cognitive Control.

Chapter 12 of Cognitive Neuroscience: The Biology of the Mind [Paperback]. In Cognitive Neuroscience: The Biology of the Mind. W. W. Norton & Co.; 4th International student edition.

———. 2014b. 'Language. Chapter 11 of Cognitive Neuroscience: The Biology of the Mind [Paperback]'. In Cognitive Neuroscience: The Biology of the Mind. W. W. Norton & Company; 4th International student edition.

———. 2014c. 'Memory. Chapter 9 of Cognitive Neuroscience: The Biology of the Mind [Paperback]'. In Cognitive Neuroscience: The Biology of the Mind. W. W. Norton & Company; 4th International student edition.

———. 2014d. 'Social Cognition. Chapter 13 of Cognitive Neuroscience: The Biology of the Mind [Paperback]'. In Cognitive Neuroscience: The Biology of the Mind. W. W. Norton & Company; 4th International student edition.

Gilbert, Sam J., Geoffrey Bird, Rachel Brindley, Christopher D. Frith, and Paul W. Burgess. 2008. 'Atypical Recruitment of Medial Prefrontal Cortex in Autism Spectrum Disorders: An fMRI Study of Two Executive Function Tasks'. *Neuropsychologia* 46 (9): 2281–91. <https://doi.org/10.1016/j.neuropsychologia.2008.03.025>.

Gilbert, Sam J., and Paul W. Burgess. 2008. 'Executive Function'. *Current Biology* 18 (3): R110–14. <https://doi.org/10.1016/j.cub.2007.12.014>.

Gilbert, Sam J., Stephanie Spengler, Jon S. Simons, J. Douglas Steele, Stephen M. Lawrie, Christopher D. Frith, and Paul W. Burgess. 2006. 'Functional Specialization within Rostral Prefrontal Cortex (Area 10): A Meta-Analysis'. *Journal of Cognitive Neuroscience* 18 (6): 932–48. <https://doi.org/10.1162/jocn.2006.18.6.932>.

Gratton, Gabriele, and Monica Fabiani. 2001. 'Shedding Light on Brain Function: The Event-Related Optical Signal'. *Trends in Cognitive Sciences* 5 (8): 357–63. [https://doi.org/10.1016/S1364-6613\(00\)01701-0](https://doi.org/10.1016/S1364-6613(00)01701-0).

Gruber, M. J., and L. J. Otten. 2010. 'Voluntary Control over Prestimulus Activity Related to Encoding'. *Journal of Neuroscience* 30 (29): 9793–9800. <https://doi.org/10.1523/JNEUROSCI.0915-10.2010>.

Harvey, B. M., B. P. Klein, N. Petridou, and S. O. Dumoulin. 2013. 'Topographic Representation of Numerosity in the Human Parietal Cortex'. *Science* 341 (6150): 1123–26. <https://doi.org/10.1126/science.1239052>.

Hutchinson, J. B., M. R. Uncapher, and A. D. Wagner. 2009. 'Posterior Parietal Cortex and Episodic Retrieval: Convergent and Divergent Effects of Attention and Memory'. *Learning & Memory* 16 (6): 343–56. <https://doi.org/10.1101/lm.919109>.

Johnsrude, I., & Hauk, O. 2005. 'Neuroimaging: Techniques for Examining Human Brain Function. Chapter 4 in Cognitive Psychology: A Methods Companion'. In . Oxford: Oxford University Press in association with the Open University.

Kim, Hongkeun. 2011. 'Neural Activity That Predicts Subsequent Memory and Forgetting: A Meta-Analysis of 74 fMRI Studies'. *NeuroImage* 54 (3): 2446–61. <https://doi.org/10.1016/j.neuroimage.2010.09.045>.

Klein, Colin. 2010. 'Philosophical Issues in Neuroimaging'. *Philosophy Compass* 5 (2): 186–98. <https://doi.org/10.1111/j.1747-9991.2009.00275.x>.

Kosslyn, Stephen M. n.d. 'If Neuroimaging Is the Answer, What Is the Question?' <http://rstb.royalsocietypublishing.org/content/354/1387/1283.full.pdf>.

'Landmarks in Human Functional Brain Imaging'. n.d. <https://wellcome.ac.uk/sites/default/files/wtvm052606.pdf>.

Lee, Victoria K., and Lasana T. Harris. 2013. 'How Social Cognition Can Inform Social Decision Making'. *Frontiers in Neuroscience* 7. <https://doi.org/10.3389/fnins.2013.00259>.

Levy, I., S. C. Lazzaro, R. B. Rutledge, and P. W. Glimcher. 2011. 'Choice from Non-Choice: Predicting Consumer Preferences from Blood Oxygenation Level-Dependent Signals Obtained during Passive Viewing'. *Journal of Neuroscience* 31 (1): 118–25. <https://doi.org/10.1523/JNEUROSCI.3214-10.2011>.

Logothetis, Nikos K. 2008. 'What We Can Do and What We Cannot Do with fMRI'. *Nature* 453 (7197): 869–78. <https://doi.org/10.1038/nature06976>.

Mauk, Michael D., and Dean V. Buonomano. 2004. 'THE NEURAL BASIS OF TEMPORAL PROCESSING'. *Annual Review of Neuroscience* 27 (1): 307–40. <https://doi.org/10.1146/annurev.neuro.27.070203.144247>.

Michael S. Gazzaniga, et al. 2014. 'Structure and Function of the Nervous System'. In *Cognitive Neuroscience: The Biology of the Mind*, 4th ed., International student ed, 22–79. New York: W.W. Norton.

———. n.d. 'Methods of Cognitive Neuroscience. Chapter 3 of Textbook.' In *Methods of Cognitive Neuroscience*. *The Biology of the Mind*, 72–123. W. W. Norton & Company; 4th International student edition edition (5 Nov 2013).

Miller, Earl K., and Jonathan D. Cohen. 2001. 'An Integrative Theory of Prefrontal Cortex Function'. *Annual Review of Neuroscience* 24 (1): 167–202. <https://doi.org/10.1146/annurev.neuro.24.1.167>.

Moran, Joseph M., and Jamil Zaki. 2013. 'Functional Neuroimaging and Psychology: What Have You Done for Me Lately?' *Journal of Cognitive Neuroscience* 25 (6): 834–42. [https://doi.org/10.1162/jocn\\_a\\_00380](https://doi.org/10.1162/jocn_a_00380).

'Neuroimaging: Separating the Promise from the Pipe Dreams - Dana Foundation'. n.d. <https://www.dana.org/article/neuroimaging-separating-the-promise-from-the-pipe-dreams/>.

Paller, Ken A., and Anthony D. Wagner. 2002. 'Observing the Transformation of Experience into Memory'. *Trends in Cognitive Sciences* 6 (2): 93–102. [https://doi.org/10.1016/S1364-6613\(00\)01845-3](https://doi.org/10.1016/S1364-6613(00)01845-3).

Park, Heekyeong, and Michael D. Rugg. 2009. 'Prestimulus Hippocampal Activity Predicts Later Recollection'. *Hippocampus*, NA-NA. <https://doi.org/10.1002/hipo.20663>.

POLDRACK, R. 2006. 'Can Cognitive Processes Be Inferred from Neuroimaging Data?'

Trends in Cognitive Sciences 10 (2): 59–63. <https://doi.org/10.1016/j.tics.2005.12.004>.

Priori, Alberto. 2003. 'Brain Polarization in Humans: A Reappraisal of an Old Tool for Prolonged Non-Invasive Modulation of Brain Excitability'. Clinical Neurophysiology 114 (4): 589–95. [https://doi.org/10.1016/S1388-2457\(02\)00437-6](https://doi.org/10.1016/S1388-2457(02)00437-6).

Raichle, Marcus E. 2009. 'A Brief History of Human Brain Mapping'. Trends in Neurosciences 32 (2): 118–26. <https://doi.org/10.1016/j.tins.2008.11.001>.

Ramnani, Narendar, and Adrian M. Owen. 2004. 'Anterior Prefrontal Cortex: Insights into Function from Anatomy and Neuroimaging'. Nature Reviews Neuroscience 5 (3): 184–94. <https://doi.org/10.1038/nrn1343>.

Rangel, Antonio, Colin Camerer, and P. Read Montague. 2008. 'A Framework for Studying the Neurobiology of Value-Based Decision Making'. Nature Reviews Neuroscience 9 (7): 545–56. <https://doi.org/10.1038/nrn2357>.

Reite, Martin, Peter Teale, and Donald C Rojas. 1999. 'Magnetoencephalography: Applications in Psychiatry'. Biological Psychiatry 45 (12): 1553–63. [https://doi.org/10.1016/S0006-3223\(99\)00062-1](https://doi.org/10.1016/S0006-3223(99)00062-1).

Rippon, Gina. n.d. 'Electroencephalography. Chapter 10 in Methods in Mind (Cognitive Neuroscience) [Paperback]'. In . MIT Press (18 Sep 2009). <http://www.amazon.co.uk/Methods-Mind-Cognitive-Neuroscience-Senior/dp/0262513439>.

Rösler, Frank, and Charan Ranganath. 2009. 'On How to Reconcile Mind and Brain'. In Neuroimaging of Human MemoryLinking Cognitive Processes to Neural Systems, 15–24. Oxford University Press. <https://doi.org/10.1093/acprof:oso/9780199217298.003.0002>.

Rugg, M. D., and S. L. Thompson-Schill. 2013. 'Moving Forward With fMRI Data'. Perspectives on Psychological Science 8 (1): 84–87. <https://doi.org/10.1177/1745691612469030>.

Rugg, Michael D., and Kaia L Vilberg. 2013. 'Brain Networks Underlying Episodic Memory Retrieval'. Current Opinion in Neurobiology 23 (2): 255–60. <https://doi.org/10.1016/j.conb.2012.11.005>.

Rugg, Michael D., and Edward L. Wilding. 2000. 'Retrieval Processing and Episodic Memory'. Trends in Cognitive Sciences 4: 108–15.

Sack, Alexander T. 2006. 'Transcranial Magnetic Stimulation, Causal Structure–Function Mapping and Networks of Functional Relevance'. Current Opinion in Neurobiology 16 (5): 593–99. <https://doi.org/10.1016/j.conb.2006.06.016>.

Seyal, M., B. Mull, N. Bhullar, T. Ahmad, and B. Gage. 1999. 'Anticipation and Execution of a Simple Reading Task Enhance Corticospinal Excitability'. Clinical Neurophysiology 110 (3): 424–29. [https://doi.org/10.1016/S1388-2457\(98\)00019-4](https://doi.org/10.1016/S1388-2457(98)00019-4).

Squire, Larry R., Craig E.L. Stark, and Robert E. Clark. 2004. 'The Medial Temporal Lobe'. Annual Review of Neuroscience 27 (1): 279–306. <https://doi.org/10.1146/annurev.neuro.27.070203.144130>.

'Structure and Function of the Nervous System. Chapter 2 of Cognitive Neuroscience: The Biology of the Mind [Paperback]'. n.d. In . W. W. Norton & Company; 4th International student edition edition (5 Nov 2013).  
[http://www.amazon.co.uk/Cognitive-Neuroscience-The-Biology-Mind/dp/0393922286/ref=sr\\_1\\_1?ie=UTF8&qid=1390474967&sr=8-1&keywords=gazzaniga+cognitive+neuroscience.\\_1\\_1](http://www.amazon.co.uk/Cognitive-Neuroscience-The-Biology-Mind/dp/0393922286/ref=sr_1_1?ie=UTF8&qid=1390474967&sr=8-1&keywords=gazzaniga+cognitive+neuroscience._1_1)

Thut, Gregor, and Carlo Miniussi. 2009. 'New Insights into Rhythmic Brain Activity from TMS-EEG Studies'. Trends in Cognitive Sciences 13 (4): 182–89.  
<https://doi.org/10.1016/j.tics.2009.01.004>.

Uncapher, Melina R., and Anthony D. Wagner. 2009. 'Posterior Parietal Cortex and Episodic Encoding: Insights from fMRI Subsequent Memory Effects and Dual-Attention Theory'. Neurobiology of Learning and Memory 91 (2): 139–54.  
<https://doi.org/10.1016/j.nlm.2008.10.011>.

Verhoeven, Judith S., Paul Cock, Lieven Lagae, and Stefan Sunaert. 2010. 'Neuroimaging of Autism'. Neuroradiology 52 (1): 3–14. <https://doi.org/10.1007/s00234-009-0583-y>.

Walsh, V. 2003. 'A Theory of Magnitude: Common Cortical Metrics of Time, Space and Quantity'. Trends in Cognitive Sciences 7 (11): 483–88.  
<https://doi.org/10.1016/j.tics.2003.09.002>.

Walsh, Vincent, and Alan Cowey. 1998. 'Magnetic Stimulation Studies of Visual Cognition'. Trends in Cognitive Sciences 2 (3): 103–10.  
[https://doi.org/10.1016/S1364-6613\(98\)01134-6](https://doi.org/10.1016/S1364-6613(98)01134-6).

Weber, Matthew J., and Sharon L. Thompson-Schill. 2010. 'Functional Neuroimaging Can Support Causal Claims about Brain Function'. Journal of Cognitive Neuroscience 22 (11): 2415–16. <https://doi.org/10.1162/jocn.2010.21461>.

White, Sarah J. 2013. 'The Triple I Hypothesis: Taking Another('s) Perspective on Executive Dysfunction in Autism'. Journal of Autism and Developmental Disorders 43 (1): 114–21.  
<https://doi.org/10.1007/s10803-012-1550-8>.

White, Sarah J., Uta Frith, Julian Rellecke, Zainab Al-Noor, and Sam J. Gilbert. 2014. 'Autistic Adolescents Show Atypical Activation of the Brain's Mentalizing System Even without a Prior History of Mentalizing Problems'. Neuropsychologia 56 (April): 17–25.  
<https://doi.org/10.1016/j.neuropsychologia.2013.12.013>.