PSYC3209: Cognitive Neuroscience

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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

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

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

Anon. n.d.-a. Cognitive Neuroscience: The Biology of the Mind. W. W. Norton & Company; 5th International student edition edition (5 Nov 2013).

Anon. n.d.-b. 'Functional Magnetic Resonance Imaging. Chapter 9 in Methods in Mind (Cognitive Neuroscience). Bandettini, P. A.' MIT Press (18 Sep 2009).

Anon. n.d.-c. 'Landmarks in Human Functional Brain Imaging'.

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

Anon. n.d.-e. 'Structure and Function of the Nervous System. Chapter 2 of Cognitive Neuroscience: The Biology of the Mind [Paperback]'. W. W. Norton & Company; 4th International student edition edition (5 Nov 2013).

Bandettini, Peter A. 2009. 'What's New in Neuroimaging Methods?' Annals of the New York Academy of Sciences 1156(1):260–93. doi: 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. doi: 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. doi: 10.1016/j.tics.2012.10.010.

Benton, Arthur L. 1994. 'Neuropsychological Assessment'. Annual Review of Psychology 45(1):1–23. doi: 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. doi: 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. doi: 10.3233/RNN-2009-0511.

Butterworth, Brian, and Vincent Walsh. 2011. 'Neural Basis of Mathematical Cognition'. Current Biology 21(16):R618–21. doi: 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 1–14. doi: 10.1162/jocn_a_00546.

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. doi: 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. doi: 10.1038/nrn726.

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

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

Duncan, John. 2001. 'An Adaptive Coding Model of Neural Function in Prefrontal Cortex'. Nature Reviews Neuroscience 2(11):820–29.

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. doi: 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. doi: 10.1162/jocn.2009.21001.

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

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. doi: 10.1016/j.cortex.2012.10.011.

Gazzaniga, Ivry and Mangun. n.d. 'A Brief History of Cognitive Neuroscience. Chapter 1 of the Textbook.' Pp. 2–21 in A brief history of cognitive neuroscience. Chapter 1 in Cognitive Neuroscience: The Biology of the Mind [Paperback]. 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.

Gazzaniga, Michael S., Richard B. Ivry, and George R. Mangun. 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.

Gazzaniga, Michael S., Richard B. Ivry, and George R. Mangun. 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.

Gazzaniga, Michael S., Richard B. Ivry, and George R. Mangun. 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. doi: 10.1016/j.neuropsychologia.2008.03.025.

Gilbert, Sam J., and Paul W. Burgess. 2008. 'Executive Function'. Current Biology 18(3):R110–14. doi: 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. doi: 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. doi: 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. doi: 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. doi: 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. doi: 10.1101/lm.919109.

Johnsrude, I., & Hauk, O. 2005. 'Neuroimaging: Techniques for Examining Human Brain Function. Chapter 4 in Cognitive Psychology: A Methods Companion'. 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. doi: 10.1016/j.neuroimage.2010.09.045.

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

Kosslyn, Stephen M. n.d. 'If Neuroimaging Is the Answer, What Is the Question?'

Lee, Victoria K., and Lasana T. Harris. 2013. 'How Social Cognition Can Inform Social Decision Making'. Frontiers in Neuroscience 7. doi: 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. doi: 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. doi: 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. doi: 10.1146/annurev.neuro.27.070203.144247.

Michael S. Gazzaniga, et al. 2014. 'Structure and Function of the Nervous System'. Pp. 22–79 in Cognitive neuroscience: the biology of the mind. New York: W.W. Norton.

Michael S. Gazzaniga, et al. n.d. 'Methods of Cognitive Neuroscience. Chapter 3 of Textbook.' Pp. 72–123 in Methods of cognitive neuroscience.The Biology of the Mind. 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. doi: 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. doi: 10.1162/jocn_a_00380.

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

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

POLDRACK, R. 2006. 'Can Cognitive Processes Be Inferred from Neuroimaging Data?' Trends in Cognitive Sciences 10(2):59–63. doi: 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. doi: 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. doi: 10.1016/j.tins.2008.11.001.

Ramnani, Narender, and Adrian M. Owen. 2004. 'Anterior Prefrontal Cortex: Insights into Function from Anatomy and Neuroimaging'. Nature Reviews Neuroscience 5(3):184–94. doi: 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. doi: 10.1038/nrn2357.

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

Rippon, Gina. n.d. 'Electroencephalography. Chapter 10 in Methods in Mind (Cognitive Neuroscience) [Paperback]'. MIT Press (18 Sep 2009).

Rösler, Frank, and Charan Ranganath. 2009. 'On How to Reconcile Mind and Brain'. Pp. 15–24 in Neuroimaging of Human MemoryLinking cognitive processes to neural systems. Oxford University Press.

Rugg, M. D., and S. L. Thompson-Schill. 2013. 'Moving Forward With fMRI Data'. Perspectives on Psychological Science 8(1):84–87. doi: 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. doi: 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. doi: 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. doi: 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. doi: 10.1146/annurev.neuro.27.070203.144130.

Thut, Gregor, and Carlo Miniussi. 2009. 'New Insights into Rhythmic Brain Activity from TMS–EEG Studies'. Trends in Cognitive Sciences 13(4):182–89. doi: 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. doi: 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. doi: 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. doi: 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. doi: 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. doi: 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. doi: 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 56:17–25. doi: 10.1016/j.neuropsychologia.2013.12.013.