

PSYC0064: Methods in cognitive neuroscience II: neuroimaging: Dr Leun J. Otten

[View Online](#)

1.

Raichle ME. A brief history of human brain mapping. Trends in Neurosciences. 2009 Feb;32(2):118-126.

2.

Landmarks in human functional brain imaging [Internet]. Available from:
<https://wellcome.ac.uk/sites/default/files/wtvm052606.pdf>

3.

Rösler F, Ranganath C. On how to reconcile mind and brain. Neuroimaging of Human Memory Linking cognitive processes to neural systems [Internet]. Oxford University Press; 2009. p. 15-24. Available from:
<https://doi.org/10.1093/acprof:oso/9780199217298.003.0002>

4.

Neuroimaging: Separating the Promise from the Pipe Dreams - Dana Foundation [Internet]. Available from:
<https://www.dana.org/article/neuroimaging-separating-the-promise-from-the-pipe-dreams/>

5.

Moran JM, Zaki J. Functional Neuroimaging and Psychology: What Have You Done for Me Lately? Journal of Cognitive Neuroscience. 2013 Jun;25(6):834-842.

6.

Klein C. Philosophical Issues in Neuroimaging. *Philosophy Compass*. 2010 Feb;5(2):186–198.

7.

Braisby N. *Cognitive psychology: a methods companion*. Oxford: Oxford University Press in association with the Open University; 2005.

8.

Ward J. *The Student's Guide to Cognitive Neuroscience* [Internet]. 3rd ed. Hoboken: Taylor and Francis; 2015. Available from:
<http://UCL.ebib.com/patron/FullRecord.aspx?p=1974273>

9.

Bandettini PA. What's New in Neuroimaging Methods? *Annals of the New York Academy of Sciences* [Internet]. 2009 Mar;1156(1):260–293. Available from:
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2716071/>

10.

Logothetis NK. What we can do and what we cannot do with fMRI. *Nature*. 2008 Jun 12;453(7197):869–878.

11.

Berman MG. Studying mind and brain with fMRI. *Social Cognitive and Affective Neuroscience*. 2006 Sep 12;1(2):158–161.

12.

Strait M, Scheutz M. What we can and cannot (yet) do with functional near infrared spectroscopy. *Frontiers in Neuroscience*. 2014 May 23;8.

13.

Glover GH. Overview of Functional Magnetic Resonance Imaging. *Neurosurgery Clinics of North America*. 2011 Apr;22(2):133–139.

14.

Huettel SA, Song AW, McCarthy G. *Functional magnetic resonance imaging*. Third edition. Sunderland, Massachusetts, U.S.A.: Sinauer Associates, Inc., Publishers; 2014.

15.

An Image-based Approach to Understanding the Physics of MR Artifacts. Available from: <http://pubs.rsna.org/doi/full/10.1148/rg.313105115>

16.

Friston (2003) - introduction and overview of fMRI analysis [Internet]. Available from: <http://www.fil.ion.ucl.ac.uk/spm/doc/intro/intro.pdf>

17.

Poldrack RA, Mumford JA, Nichols TE. *Handbook of functional MRI data analysis*. Cambridge: Cambridge University Press; 2011.

18.

Smith SM. Overview of fMRI analysis. In: Jezzard P, Matthews PM, Smith SM, editors. *Functional Magnetic Resonance Imaging* [Internet]. Oxford University Press; 2001. p. 216–230. Available from: <http://www.oxfordscholarship.com/view/10.1093/acprof:oso/9780192630711.001.0001/acprof-9780192630711-chapter-11>

19.

Poldrack RA, Fletcher PC, Henson RN, Worsley KJ, Brett M, Nichols TE. Guidelines for reporting an fMRI study. *NeuroImage*. 2008 Apr;40(2):409–414.

20.

Amaro E, Barker GJ. Study design in fMRI: Basic principles. *Brain and Cognition*. 2006 Apr;60(3):220–232.

21.

Savoy RL. Experimental design in brain activation MRI: Cautionary tales. *Brain Research Bulletin*. 2005 Nov;67(5):361–367.

22.

HENSON R. Forward inference using functional neuroimaging: dissociations versus associations. *Trends in Cognitive Sciences*. 2006 Feb;10(2):64–69.

23.

Nieuwenhuis S, Forstmann BU, Wagenmakers EJ. Erroneous analyses of interactions in neuroscience: a problem of significance. *Nature Neuroscience*. 2011 Aug 26;14(9):1105–1107.

24.

Church JA, Petersen SE, Schlaggar BL. The "Task B problem" and other considerations in developmental functional neuroimaging. *Human Brain Mapping*. 2010 Jun;31(6):852–862.

25.

Mumford JA. A power calculation guide for fMRI studies. *Social Cognitive and Affective Neuroscience*. 2012 Aug 1;7(6):738–742.

26.

Cohen MX. Where Does EEG Come From and What Does It Mean? *Trends in Neurosciences*. 2017 Apr;40(4):208–218.

27.

Banaschewski T, Brandeis D. Annotation: What electrical brain activity tells us about brain function that other techniques cannot tell us? a child psychiatric perspective. *Journal of Child Psychology and Psychiatry*. 2007 May;48(5):415–435.

28.

Coles, Michael G. H., Rugg, M. D. Event-related brain potentials: an introduction. Chapter 1 in *Electrophysiology of mind: event-related brain potentials and cognition*. Oxford: Oxford University Press; 1995.

29.

Teplan M. Fundamentals of EEG measurement [Internet]. Available from: <http://www.measurement.sk/2002/S2/Teplan.pdf>

30.

Handy, Todd C. Event-related potentials: a methods handbook (chapter 1 - how to interpret event-related potentials). Cambridge, Mass: MIT Press; 2005.

31.

Michel CM, Murray MM, Lantz G, Gonzalez S, Spinelli L, Grave de Peralta R. EEG source imaging. *Clinical Neurophysiology*. 2004 Oct;115(10):2195–2222.

32.

Roach BJ, Mathalon DH. Event-Related EEG Time-Frequency Analysis: An Overview of Measures and An Analysis of Early Gamma Band Phase Locking in Schizophrenia. *Schizophrenia Bulletin*. 2008 Jul 21;34(5):907–926.

33.

Reite M, Teale P, Rojas DC. Magnetoencephalography: applications in psychiatry. *Biological Psychiatry* [Internet]. 1999 Jun;45(12):1553–1563. Available from: [https://doi.org/10.1016/S0006-3223\(99\)00062-1](https://doi.org/10.1016/S0006-3223(99)00062-1)

34.

Gross J, Baillet S, Barnes GR, Henson RN, Hillebrand A, Jensen O, Jerbi K, Litvak V, Maess B, Oostenveld R, Parkkonen L, Taylor JR, van Wassenhove V, Wibral M, Schoffelen JM. Good practice for conducting and reporting MEG research. *NeuroImage*. 2013 Jan;65:349–363.

35.

Litvak V, Mattout J, Kiebel S, Phillips C, Henson R, Kilner J, Barnes G, Oostenveld R, Daunizeau J, Flandin G, Penny W, Friston K. EEG and MEG Data Analysis in SPM8. *Computational Intelligence and Neuroscience*. 2011;2011:1–32.

36.

Friston KJ. Modalities, Modes, and Models in Functional Neuroimaging. *Science*. 2009 Oct 16;326(5951):399–403.

37.

Thut G, Miniussi C. New insights into rhythmic brain activity from TMS-EEG studies. *Trends in Cognitive Sciences*. 2009 Apr;13(4):182–189.

38.

Driver J, Blankenburg F, Bestmann S, Vanduffel W, Ruff CC. Concurrent brain-stimulation and neuroimaging for studies of cognition. *Trends in Cognitive Sciences*. 2009 Jul;13(7):319–327.