

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;**32**:118–26. doi:10.1016/j.tins.2008.11.001

2

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

3

Rösler F, Ranganath C. On how to reconcile mind and brain. In: Neuroimaging of Human Memory Linking cognitive processes to neural systems. Oxford University Press 2009. 15–24. <https://doi.org/10.1093/acprof:oso/9780199217298.003.0002>

4

Neuroimaging: Separating the Promise from the Pipe Dreams - Dana Foundation.
<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;**25**:834–42. doi:10.1162/jocn_a_00380

6

Klein C. Philosophical Issues in Neuroimaging. *Philosophy Compass* 2010;**5**:186–98. doi:10.1111/j.1747-9991.2009.00275.x

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*. 3rd ed. Hoboken: : Taylor and Francis 2015. <http://UCL.eblib.com/patron/FullRecord.aspx?p=1974273>

9

Bandettini PA. What's New in Neuroimaging Methods? *Annals of the New York Academy of Sciences* 2009;**1156**:260–93. doi:10.1111/j.1749-6632.2009.04420.x

10

Logothetis NK. What we can do and what we cannot do with fMRI. *Nature* 2008;**453**:869–78. doi:10.1038/nature06976

11

Berman MG. Studying mind and brain with fMRI. *Social Cognitive and Affective Neuroscience* 2006;**1**:158–61. doi:10.1093/scan/nsi019

12

Strait M, Scheutz M. What we can and cannot (yet) do with functional near infrared spectroscopy. *Frontiers in Neuroscience* 2014;**8**. doi:10.3389/fnins.2014.00117

13

Glover GH. Overview of Functional Magnetic Resonance Imaging. *Neurosurgery Clinics of North America* 2011;**22**:133–9. doi:10.1016/j.nec.2010.11.001

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.
<http://pubs.rsna.org/doi/full/10.1148/rg.313105115>

16

Friston (2003) - introduction and overview of fMRI analysis.
<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, eds. Functional Magnetic Resonance Imaging. Oxford University Press 2001. 216–30. doi:10.1093/acprof:oso/9780192630711.003.0011

19

Poldrack RA, Fletcher PC, Henson RN, et al. Guidelines for reporting an fMRI study. NeuroImage 2008;**40**:409–14. doi:10.1016/j.neuroimage.2007.11.048

20

Amaro E, Barker GJ. Study design in fMRI: Basic principles. Brain and Cognition 2006;**60**:220–32. doi:10.1016/j.bandc.2005.11.009

21

Savoy RL. Experimental design in brain activation MRI: Cautionary tales. Brain Research Bulletin 2005;**67**:361–7. doi:10.1016/j.brainresbull.2005.06.008

22

HENSON R. Forward inference using functional neuroimaging: dissociations versus associations. Trends in Cognitive Sciences 2006;**10**:64–9. doi:10.1016/j.tics.2005.12.005

23

Nieuwenhuis S, Forstmann BU, Wagenmakers E-J. Erroneous analyses of interactions in neuroscience: a problem of significance. Nature Neuroscience 2011;**14**:1105–7. doi:10.1038/nn.2886

24

Church JA, Petersen SE, Schlaggar BL. The "Task B problem" and other considerations in developmental functional neuroimaging. Human Brain Mapping 2010;**31**:852–62. doi:10.1002/hbm.21036

25

Mumford JA. A power calculation guide for fMRI studies. Social Cognitive and Affective Neuroscience 2012;**7**:738–42. doi:10.1093/scan/nss059

26

Cohen MX. Where Does EEG Come From and What Does It Mean? Trends in Neurosciences 2017;**40**:208–18. doi:10.1016/j.tins.2017.02.004

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;**48**:415–35. doi:10.1111/j.1469-7610.2006.01681.x

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.
<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, et al. EEG source imaging. *Clinical Neurophysiology* 2004; **115**:2195–222. doi:10.1016/j.clinph.2004.06.001

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;**34**:907–26. doi:10.1093/schbul/sbn093

33

Reite M, Teale P, Rojas DC. Magnetoencephalography: applications in psychiatry. *Biological Psychiatry* 1999;**45**:1553–63. doi:10.1016/S0006-3223(99)00062-1

34

Gross J, Baillet S, Barnes GR, et al. Good practice for conducting and reporting MEG research. *NeuroImage* 2013;**65**:349–63. doi:10.1016/j.neuroimage.2012.10.001

35

Litvak V, Mattout J, Kiebel S, et al. EEG and MEG Data Analysis in SPM8. Computational Intelligence and Neuroscience 2011;**2011**:1–32. doi:10.1155/2011/852961

36

Friston KJ. Modalities, Modes, and Models in Functional Neuroimaging. Science 2009;**326**:399–403. doi:10.1126/science.1174521

37

Thut G, Miniussi C. New insights into rhythmic brain activity from TMS-EEG studies. Trends in Cognitive Sciences 2009;**13**:182–9. doi:10.1016/j.tics.2009.01.004

38

Driver J, Blankenburg F, Bestmann S, et al. Concurrent brain-stimulation and neuroimaging for studies of cognition. Trends in Cognitive Sciences 2009;**13**:319–27. doi:10.1016/j.tics.2009.04.007