

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

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1.

Raichle ME. A brief history of human brain mapping. Trends in Neurosciences. 2009;32(2):118-126. 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(6):834-842. doi:10.1162/jocn_a_00380

6.

Klein C. Philosophical Issues in Neuroimaging. *Philosophy Compass*. 2010;5(2):186-198. doi:10.1111/j.1747-9991.2009.00275.x

7.

Braisby N. *Cognitive Psychology: A Methods Companion*. Oxford University Press in association with the Open University; 2005.

8.

Ward J. *The Student's Guide to Cognitive Neuroscience*. 3rd ed. Taylor and Francis; 2015. <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*. 2009;1156(1):260-293. 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(7197):869-878. doi:10.1038/nature06976

11.

Berman MG. Studying mind and brain with fMRI. *Social Cognitive and Affective Neuroscience*. 2006;1(2):158-161. doi:10.1093/scan/nsl019

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(2):133-139. doi:10.1016/j.nec.2010.11.001

14.

Huettel SA, Song AW, McCarthy G. *Functional Magnetic Resonance Imaging*. Third edition. 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 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; 2001:216-230. doi:10.1093/acprof:oso/9780192630711.003.0011

19.

Poldrack RA, Fletcher PC, Henson RN, Worsley KJ, Brett M, Nichols TE. Guidelines for reporting an fMRI study. *NeuroImage*. 2008;40(2):409-414. doi:10.1016/j.neuroimage.2007.11.048

20.

Amaro E, Barker GJ. Study design in fMRI: Basic principles. *Brain and Cognition*. 2006;60(3):220-232. doi:10.1016/j.bandc.2005.11.009

21.

Savoy RL. Experimental design in brain activation MRI: Cautionary tales. *Brain Research Bulletin*. 2005;67(5):361-367. 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(2):64-69. doi:10.1016/j.tics.2005.12.005

23.

Nieuwenhuis S, Forstmann BU, Wagenmakers EJ. Erroneous analyses of interactions in neuroscience: a problem of significance. *Nature Neuroscience*. 2011;14(9):1105-1107. 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(6):852-862. doi:10.1002/hbm.21036

25.

Mumford JA. A power calculation guide for fMRI studies. *Social Cognitive and Affective Neuroscience*. 2012;7(6):738-742. doi:10.1093/scan/nss059

26.

Cohen MX. Where Does EEG Come From and What Does It Mean? *Trends in Neurosciences*. 2017;40(4):208-218. 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(5):415-435. 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*. Vol Oxford psychology series. 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). In: MIT Press; 2005.

31.

Michel CM, Murray MM, Lantz G, Gonzalez S, Spinelli L, Grave de Peralta R. EEG source imaging. *Clinical Neurophysiology*. 2004;115(10):2195-2222. 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(5):907-926. doi:10.1093/schbul/sbn093

33.

Reite M, Teale P, Rojas DC. Magnetoencephalography: applications in psychiatry. *Biological Psychiatry*. 1999;45(12):1553-1563. 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;65:349-363. 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(5951):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(4):182-189. doi:10.1016/j.tics.2009.01.004

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;13(7):319-327. doi:10.1016/j.tics.2009.04.007