

R. H. S. Carpenter: publications

* One of 20 publications to which I would like to draw particular attention

Refereed full papers, books, book chapters

1. *Genest, W., Hammond, R. & **Carpenter, R. H. S.** The random dot tachistogram: a novel task that elucidates the functional architecture of decision. *Nature Scientific Reports* 2016; DOI: 10.1038/srep30787, 1-11
2. Stainer, M. J., **Carpenter, R. H. S.**, Brotchie, P. & Anderson, A. J. Sequences show rapid motor transfer and spatial translation in the oculomotor system. *Vision Research* 2016; 124, 1-6.
3. *Noorani, I. & **Carpenter, R. H. S.** The LATER model of reaction time and decision. *Neuroscience and Biobehavioral Reviews* 2016; 64, 229-251.
4. Bray, T.J.P., **Carpenter, R.H.S.** Saccadic foraging: reduced reaction time to informative targets. *European Journal of Neuroscience* 2015; 41, 908-913.
5. Noorani, I., **Carpenter, R.H.S.** Ultra-fast initiation of a neural race by impending errors. *Journal of Physiology* 2015; 593, 4471-84.
6. Cunniffe, N., Munby, H., Chan, S., Saatci, D., Edison, E., **Carpenter, R.H.S.**, Massey, D., Using saccades to diagnose covert hepatic encephalopathy. *Metabolic Brain Disease* 2015; 30; 821-828.
7. Saleh Y, Marcus HJ, Iorga R, Nouraei R, **Carpenter R.** & Nandi D. (2015). Bedside saccadometry as an objective and quantitative measure of hemisphere-specific neurological function in patients undergoing cranial surgery. *Journal of Clinical Neuroscience* 2015; 22, 280-285
8. Ameqrane, I., Pouget, P., Wattiez, N., **Carpenter, R.**, & Missal, M. Implicit and Explicit Timing in Oculomotor Control. *PlosOne* 2014; 9: DOI: 10.1371/journal.pone.0093958.
9. Ernst, F., Rauchenzauner, M., Zoller, H., Griesmacher, A., Hammerer-Lercher, A., **Carpenter, R.**, Schuessler, G., and Joannidis, M. Effects of 24 h working on-call on psychoneuroendocrine and oculomotor function: A randomized cross-over trial. *Psychoneuroendocrinology* 2014; 47: 221-31.

10. Noorani I. & **Carpenter R. H. S.** Restarting a neural race: anti-saccade correction. *European Journal of Neuroscience* 2014; 39: 159-64.
11. Noorani I. & **Carpenter R. H. S.** Basal Ganglia: Racing to Say No. *Trends in Neurosciences* 2014; <http://dx.doi.org/10.1016/j.tins.2014.07.003>.
12. Anderson, A. J., Stainer, M. J., Brotchie, P. & **Carpenter, R. H. S.** Target direction rather than position determines oculomotor expectation in repeating sequences *Experimental Brain Research* 2014; 232: 2187-95.
13. *Noorani, I., & **Carpenter, R.H.S.** Antisaccades as decisions: LATER model predicts latency distributions and error responses. *European Journal of Neuroscience*, 2013: 37 330-338
14. Burrell, J.R., **Carpenter, R.H.S.**, Hodges, J.R., & Kiernan, M.C. Early saccades in amyotrophic lateral sclerosis. *Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration*. 2013; 14: 294-301.
15. Antoniadou, C., Ettinger, U., Gaymard, B., Gilchrist, I., Kristjánsson, A., Kennard, C., Leigh, R.J., Noorani, I., Pouget, P., Smyrnis, N., Tarnowski, A., Zee, D.S., & **Carpenter, R.H.S.** An internationally standardized antisaccade protocol for clinical use. *Vision Research*, 2013: 84: 1-5.
16. Antoniadou, C.A., Xu, Z., **Carpenter, R.H.S.**, and Barker, R.A. The relationship between abnormalities of saccadic and manual response times in Parkinson's disease. *J Parkinson's Disease*, 2013; 3: 557-63.
17. Burrell, J. R., Hornberger, M., **Carpenter, R. H. S.**, Kiernan, M. C. & Hodges, J. R. Saccadic abnormalities in frontotemporal dementia. *Neurology* 2012; 78: 1816-1823
18. Chandna, A., Chandrasekharan, D. P., Ramesh, A. V. & **Carpenter, R. H. S.** Altered interictal saccadic reaction time in migraine: a cross-sectional study. *Cephalalgia*. 2012; 32: 473-480
19. Antoniadou, C. A. & **Carpenter, R. H. S.** Making Neurology Quantitative. *Neuroreport* 2012; 23: 572-575
20. Antoniadou, C. A., **Carpenter, R. H. S.** & Temel, Y. Deep brain stimulation of the subthalamic nucleus in Parkinson's disease: similar improvements in saccadic and manual responses. *Neuroreport* 2012; 23: 179-183

21. **Carpenter, R. H. S.** Analysing the detail of saccadic reaction time distributions. *Biocybernetics and Biological Engineering*. 2012; 32: 49-63.
22. **Carpenter, R. H. S.**, Reddi, B. A. J. *Neurophysiology: A Conceptual Approach*. 5th edition. London: Hodder, 2012.
23. Antoniades, C. A., Ober, J., Hicks, S., Siuda, G., **Carpenter, R. H. S.**, Kennard, C., et al. Statistical characteristics of finger-tapping data in Huntington's disease *Medical and Biological Engineering and Computing* 2012; 50: 341-346
24. Antoniades, C. A., Buttery, P., FitzGerald, J. F., Barker, R. A., **Carpenter, R. H. S** & Watts, C. Deep brain stimulation: eye movements reveal anomalous effects of electrode placement and stimulation. *PLoS One*. 2012; 7: doi: 10.1371/journal.pone.0032830
25. ***Carpenter, R. H. S.** & Reddi, B. 2012 *Neurophysiology: a conceptual approach*. 5th ed. London, Hodder.
26. Pernecky, R., Ghosh, B. C., Hughes, L., **Carpenter, R. H. S.**, Baker, R. A.. & Rowe, J. B. Saccadic latency in Parkinson's disease correlates with executive function and brain atrophy, but not motor severity. *Neurobiology of Disease*. 2011; 43: 79-85
27. *Noorani, I, Gao, M. J., Pearson, B. C. & **Carpenter, R. H. S.** Predicting the timing of wrong decisions. *Experimental Brain Research* 2011; 209: 587-598
28. Dawson, C., Murphy, E., Maritz, C., Chan, H., Ellerton, C., **Carpenter, R. H. S**, & Lachmann, R. H. Dietary treatment of phenylketonuria: the effect of phenylalanine on reaction time. *Journal of Inherited Metabolic Disease*. 2011; 34: 449-454
29. Noorani, I. & **Carpenter R. H. S.** Full reaction time distributions reveal the complexity of neural decision-making. *European Journal of Neuroscience*. 2011; 33: 1948-1951
30. **Carpenter, R. H. S.** What Sherrington missed: the ubiquity of the neural integrator. *Annals of the New York Academy of Sciences*. 2011; 1233: 208-213
31. Walsh, S. R., Nouraei, S. A. R., Tang, T. Y., Sadat, U., **Carpenter, R. H. S.** & Gaunt, M. E. Remote ischemic preconditioning for cerebral and cardiac protection during carotid endarterectomy: results from a pilot randomized clinical trial. *Vascular and Endovascular Surgery*, 2010; 44: 434-439.

32. Antoniadou, C. A., Zheyu, X., Mason, S. L., **Carpenter, R. H. S.** & Barker, R. A. Huntington's disease: changes in saccades and hand-tapping over three years. *Journal of Neurology*. 2010; 257: 1890-1898
33. Krismer, F, Roos J. C. P, Schranz, M., Graziadei, I. W., Mechtcheriakov, S., Vogel, W., **Carpenter, R. H. S.** & Zoller, H. Saccadic Latency in Hepatic Encephalopathy: A Pilot Study. *Metabolic Brain Disease*. 2010. 25, 285-295
34. Anderson, A. J. & **Carpenter, R. H. S.** Saccadic latency in deterministic environments: getting back on track after the unexpected happens. *Journal of Vision*. 2010; 10:14 12
35. Halliday, J. & **Carpenter, R. H. S.** The effect of cognitive distraction on saccadic latency. *Perception* 2010. 39, 41-50.
36. Nouraei, S. A. R, Roos, J. C. P., Walsh, S. R., Ober, J., Gaunt, M. E. & **Carpenter, R. H. S.** Objective assessment of the hemisphere-specific neurological outcome of carotid endarterectomy: a quantitative saccadometric analysis. *Neurosurgery*. 2010; 67: 1534-1541
37. ***Carpenter, R. H. S.**, Reddi, B. A. J., & Anderson, A. J. A simple two-stage model predicts response time distributions. *Journal of Physiology* 2009. 587, 4051-4062.
38. Temel, Y., Visser-Vandewalle, V. & **Carpenter, R. H. S.** Saccadometry: a novel clinical tool for quantification of the motor effects of subthalamic nucleus stimulation in Parkinson's disease . *Experimental Neurology*. 2009; 216: 481-9
39. *Story, G. W. & **Carpenter, R. H. S.** Dual LATER-unit model predicts saccadic reaction time distributions in gap, step and appearance tasks. *Experimental Brain Research*. 2009; 193:287-296
40. *Temel, Y., Visser-Vandewalle, V. & **Carpenter, R. H. S.** Saccadic latency during electrical stimulation of the human subthalamic nucleus. *Current Biology*. 2008;18:R412-4.
41. Anderson, A. J., Yadav, H. & **Carpenter, R. H. S.** Directional prediction by the saccadic system. *Current Biology*. 2008; 18:614-8.
42. Nouraei, S. A. R & **Carpenter, R. H. S.** Development of a planimetry software for digitising printed graphs and historical clinical investigations. *Clinical Otolaryngology*. 2008; 33: 506-7

43. *Roos, J. C. P., Calandrini, D. M. & **Carpenter, R. H. S.** A single mechanism for the timing of spontaneous and evoked saccades. *Experimental Brain Research*. 2008; 187:283-93.
44. Nouraei, S. A. R., Lloyd-Hughes, H., Saleh, H. A. & **Carpenter, R. H. S.** Development of a software for objective assessment of facial symmetry. *Clinical Otolaryngology*. 2008; 33: 1-2
45. Antoniadis, C. A., Bak, T. H., **Carpenter, R. H. S.**, Hodges, J. H. & Barker, R. A. The diagnostic potential of saccadometry in Progressive Supranuclear Palsy. *Biomarkers in Medicine*. 2007; 1:473-81.
46. Reddi, B. A. J. & **Carpenter, R. H. S.** Venous return: cardiomythology? *Clinical Medicine* 2007; 7: 36-37.
47. *Anderson, A. J. & **Carpenter, R. H. S.** The effect of stimuli that isolate S-cones on early saccades and the gap effect. *Proceedings of the Royal Society B*. 2007; 275:335-44.
48. *Oswal, A., Ogden, M. & **Carpenter, R. H. S.** The time-course of stimulus expectation in a saccadic decision task. *Journal of Neurophysiology*. 2007; 97:2722-30.
49. Antoniadis, C. A., Altham, P. M. E., Mason, S. L., Barker, R. A. & **Carpenter, R. H. S.** Saccadometry: a new tool for evaluating pre-symptomatic Huntington patients. *Neuroreport* 2007; 18,1133-1136
50. Emeric, E. E., Brown, J. W., Boucher, L., Hanes, D. P., Harris, R., **Carpenter, R. H. S.** & Schall, J. D. Influence of history on saccade countermanding performance in humans and macaque monkeys. 2007; *Vision Research*, 47: 35-49
51. Pearson, B. C., Armitage, K. R., Horner, C. W. M. & **Carpenter, R. H. S.** Saccadometry: the possible application of latency distribution measurement for monitoring concussion. *British Journal of Sports Medicine* 2007; 41: 610-612
52. *Taylor, M. J., **Carpenter, R. H. S.** & Anderson, A. J. A noisy transform predicts saccadic and manual reaction times to changes in contrast. *Journal of Physiology* 2006; 573: 241-251.
53. Michell, A. W., Xu, Z., Fritz, D., Lewis, S. J. G., Foltynie, T., Williams-Gray, C. H., Robbins, T. W., **Carpenter, R. H. S.** & Barker, R. A. Saccadic latency distributions in Parkinson's disease and the effects of L-dopa. *Experimental Brain Research* 2006; 174: 7-18

54. **Carpenter, R. H. S.** & Anderson, A. J. The death of Schrödinger's cat and of consciousness-based quantum wave-function collapse. *Annales de la Fondation Louis de Broglie* 2006; 31: 1-8
55. *Sinha, N., Brown, J. T. G. & **Carpenter, R. H. S.** Task switching as a two-stage decision process. *Journal of Neurophysiology* 2006; 95: 3146-3153.
56. **Carpenter, R. H. S.** & McDonald, S. A. LATER predicts saccade latency distributions in reading. *Experimental Brain Research* 2006; 177: 176-183.
57. Ali, F. R., Michell, A. W., Barker, R. A. & **Carpenter, R. H. S.** The use of quantitative oculometry in the assessment of Huntington's disease. *Experimental Brain Research* 2006; 169: 237-245
58. **Carpenter, R. H. S.** Does scopesthesia imply extramission? *Journal of Consciousness Studies* 2005; 12: 76-78.
59. **Carpenter, R. H. S.** Visual pursuit: an instructive area of cortex. *Current Biology* 2005; 15: R638-640
60. McDonald, S. A., **Carpenter, R. H. S.** & Shillcock R. C. An anatomically-constrained, stochastic model of eye movement control in reading. *Psychological Review* 2005; 112: 814-840.
61. **Carpenter, R. H. S.** The saccadic system: a neurological microcosm. *Advances in Clinical Neuroscience and Rehabilitation* 2004; 4: 6-8.
62. Reddi, B. A. J. & **Carpenter, R. H. S.** Venous excess: a new approach to cardiovascular control and its teaching. *Journal of Applied Physiology* 2004; 98: 356-364.
63. **Carpenter, R. H. S.** Homeostasis: a plea for a unified approach. *Advances in Physiology Education* 2004; 28: S180-187.
64. **Carpenter, R. H. S.** Contrast, probability and saccadic latency: evidence for independence of detection and decision. *Current Biology* 2004; 14: 1576-1580.
65. Jones, J. G. & **Carpenter, R. H. S.** Hypothesis - ocular monitoring techniques used in anaesthetic sedation may benefit drivers. *Bulletin of the Royal College of Anaesthetists* 2004; 28: 1414-1415.
66. **Carpenter, R. H. S.** Supplementary eye field: keeping an eye on eye movement. *Current Biology* 2004; 14: R416-418.

67. *Reddi, B. A. J. & Asrress, K. N. & **Carpenter, R. H. S.** Accuracy, information and response time in a saccadic decision task. *Journal of Neurophysiology* 2003; 90: 3538-46.
68. Nouraei, S. A. R., de Pennington, N., Jones, J. G. & **Carpenter, R. H. S.** Dose-related effect of sevoflurane sedation on the higher control of eye movements and decision-making. *British Journal of Anaesthesia* 2003; 91: 175-83.
69. Ober, J.K., Przedpelska-Ober, E., Gryniewicz, W., Dylak, J., **Carpenter, R. H. S.** & Ober, J. J. Hand-held system for ambulatory measurement of saccadic durations of neurological patients. In: Gajda J, editor. *Modelling and Measurement in Medicine*. Warsaw: Komitet Biocybernetyki i Inzynierii Biomedycznej PAN, 2003: 187-198.
70. **Carpenter, R. H. S.**, Descamps, M. J. L., Morley, C. H., Leary, T. S. & Jones, J. G. The effect of low dose sevoflurane on saccadic eye movement latency. *Anaesthesia* 2002; 57: 855-859.
71. Zarei, M., Nouraei, S. A. R., Caine, D., Hodges, J. R. & **Carpenter, R. H. S.** Neuropsychological and quantitative oculometric study of a case of sporadic Creutzfeldt-Jakob disease at pre-dementia stage. *Journal of Neurology, Neurosurgery and Psychiatry* 2002; 73: 56-58.
72. **Carpenter, R. H. S.** Reaching out: cortical mechanisms of directed action. *Current Biology* 2002; 12: R517-519.
73. **Carpenter, R. H. S.** *Neurophysiology*. 4th edition. London: Arnolds, 2002.
74. Ratcliff, R., **Carpenter, R. H. S.** & Reddi, B. A. J. Putting noise into neurophysiological models of simple decision making. *Nature Neuroscience* 2001; 4: 336-7.
75. Jandziol, A. K., Prabhu, M., **Carpenter, R. H. S.** & Jones, J. G. Blink duration as a measure of low-level anaesthetic sedation. *European Journal of Anaesthesiology* 2001; 18: 476-484.
76. Asrress, K. N. & **Carpenter, R. H. S.** Saccadic countermanding: a comparison of central and peripheral stop signals. *Vision Research* 2001; 41: 2645-2651.
77. **Carpenter, R. H. S.** Express saccades: is bimodality a result of the order of stimulus presentation? *Vision Research* 2001; 41: 1145-1151.
78. *Leach, J. C. D. & **Carpenter, R. H. S.** Saccadic choice with asynchronous targets: evidence for independent randomisation. *Vision Research* 2001; 41: 3437-45.

79. **Carpenter, R. H. S.** & Reddi, B. A. J. Deciding between the deciders: two models of reaction time may happily coexist. *Nature Neuroscience* 2001; 4: 337.
80. *Reddi, B. A. J. & **Carpenter, R. H. S.** The influence of urgency on decision time. *Nature Neuroscience* 2000; 3: 827-831.
81. **Carpenter, R. H. S.** The neural control of looking. *Current Biology* 2000; 10: 291-293.
82. Jandziol, A. K., Prabhu, M., **Carpenter, R. H. S.** & Jones, J. G. Blink duration: a function of anaesthetic sedation. *British Journal of Anaesthesia* 2000; 84: 278-279P.
83. Hanes, D. P. & **Carpenter, R. H. S.** Countermanding saccades in humans. *Vision Research* 1999; 39: 2777-2791.
84. **Carpenter, R. H. S.** Mouvements oculaires et lecture musicale au piano. *Médecine des Arts* 1999; 28: 8-13.
85. **Carpenter, R. H. S.** Visual selection; neurons that make up their minds. *Current Biology* 1999; 9: 595-598.
86. Khan, O., Taylor, S. J., Jones, J. G., Swart, M., Hanes, D. P. & **Carpenter, R. H. S.** Effects of low-dose isoflurane on saccade eye movement generation. *Anaesthesia* 1999; 54: 142-145.
87. ***Carpenter, R. H. S.** A neural mechanism that randomises behaviour. *Journal of Consciousness Studies* 1999; 6: 13-22.
88. **Carpenter, R. H. S.** & Robson, J. G. Eds. *Vision Research: a Practical Guide to Laboratory Methods*. 1998; Oxford, Oxford University Press.
89. **Carpenter, R. H. S.** *Neurofisiologia*. 2nd edition. Santafé de Bogotá: El Manual Moderno, 1998.
90. **Carpenter, R. H. S.** Sensorimotor processing: charting the frontier. *Current Biology* 1997; 7: 348-351.
91. **Carpenter R. H. S.** Eye movements and the mechanisms of accommodation and the pupil. In: Greger, R. and Windhorst, U., editors. *Comprehensive Human Physiology*. Vol 1. Berlin: Springer Verlag, 1996: 829-837.
92. **Carpenter, R. H. S.** *Neurophysiology*. 3rd edition. London: Arnolds, 1996.
93. ***Carpenter, R. H. S.** & Williams, M. L. L. Neural computation of log likelihood in the control of saccadic eye movements. *Nature* 1995; 377: 59-62.

94. **Carpenter, R. H. S.** & Kinsler, V. Saccadic eye movements while reading music. *Vision Research* 1995; 35: 1447-1458.
95. Merrison, A. F. A. & **Carpenter, R. H. S.** 'Express' smooth pursuit. *Vision Research* 1995; 35: 1459-1462.
96. **Carpenter, R. H. S.** Movement control: Moving the Mental Maps. *Current Biology* 1995; 5: 1082-84.
97. **Carpenter, R. H. S.** *Neurofisiologia*. Milan: Casa Editrice Ambrosiana, 1995.
98. **Carpenter, R. H. S.** Frontal cortex: choosing where to look. *Current Biology* 1994; 4: 341-343.
99. Merrison, A. F. A. & **Carpenter, R. H. S.** Co-variability of smooth and saccadic latencies in oculomotor pursuit. *Ophthalmic Research* 1994; 26: 158-162.
100. **Carpenter, R. H. S.** Express optokinetic nystagmus. In: Fuchs, A. F. & Brandt, T. & Büttner, U. and Zee, D., (editors). *Contemporary ocular motor and vestibular research*. Stuttgart: Georg Thieme, 1994: 185-187.
101. **Carpenter, R. H. S.** The distribution of quick phase intervals in optokinetic nystagmus. *Ophthalmic Research* 1993; 25: 91-93.
102. **Carpenter, R. H. S.** Beyond the Darrow-Yannet diagram: an enhanced plot for body spaces and osmolality. *The Lancet* 1993; 342: 968-970.
103. Sanderson, A. & **Carpenter, R. H. S.** Eye movement desensitization versus image confrontation: a single-session crossover study of 58 phobic subjects. *Journal of Behavioural Therapy and Experimental Psychiatry* 1992; 23: 269-275.
104. **Carpenter, R. H. S.** Ed. *Eye Movements*. London: MacMillan, 1992
105. **Carpenter, R. H. S.** The visual origins of ocular motility. In: **Carpenter, R. H. S.**, editor. *Eye Movements*. London: MacMillan, 1992: 1-10.
106. **Carpenter, R. H. S.** Turning vision into action. *Current Biology* 1992; 2: 288-290.
107. **Carpenter, R. H. S.** Ed., *Eye Movements*. London: MacMillan, 1992
108. **Carpenter, R. H. S.** The visual origins of ocular motility. In: **Carpenter, R. H. S.**, Ed.. *Eye Movements*. London: MacMillan, 1992: 1-10
109. **Carpenter, R. H. S.** *Neurophysiology*. 2nd edition. London: Edward Arnold, 1990.
110. **Carpenter, R. H. S.** Eye-movement machinery. *Physics World* 1989; 2: 41-44.

111. ***Carpenter, R. H. S.** *Movements of the Eyes*. 2nd edition. London: Pion, 1988.
112. **Carpenter, R. H. S.** *Neurofisiología*. 1st edition. Mexico: El Manual Moderno, 1986.
113. **Carpenter, R. H. S.** *Neurophysiology*. 1st edition. London: Edward Arnold, 1984.
114. **Carpenter, R. H. S.** Oculomotor Procrastination. In: Fisher, D. F., Monty, R. A. & Senders, J. W., (editors). *Eye Movements: Cognition and Visual Perception*. Hillsdale: Lawrence Erlbaum, 1981: 237-246.
115. **Carpenter, R. H. S.** Diffusion not the cause of afterimage blurring. *Vision Research* 1978; 18: 837-839.
116. **Carpenter, R. H. S.** *Movements of the Eyes*. 1st edition. London: Pion, 1977.
117. MacLeod, D. I. A., Virsu, V. & **Carpenter, R. H. S.** On mathematical illusions. *Perception and Psychophysics* 1974; 16: 417-418.
118. ***Carpenter, R. H. S.** & Blakemore, C. B. Interactions between orientations in human vision. *Experimental Brain Research* 1973; 18: 287-303.
119. **Carpenter, R. H. S.** Afterimages on backgrounds of different luminance: a new phenomenon and a hypothesis. *Journal of Physiology* 1972; 226: 713-724.
120. ***Carpenter, R. H. S.** Cerebellectomy and the transfer-function of the vestibulo-ocular reflex in the decerebrate cat. *Proceedings of the Royal Society B* 1972; 181: 353-374
121. **Carpenter, R. H. S.** Electrical stimulation of the human eye in different adaptational states. *Journal of Physiology* 1972; 220: 137-148.
122. **Carpenter, R. H. S.** Contour-like phosphenes from electrical stimulation of the human eye: some new observations. *Journal of Physiology* 1972; 229: 767-785.
123. Blakemore, C. B., **Carpenter, R. H. S.** & Georgeson, M. A. Lateral thinking about lateral inhibition. *Nature* 1971; 234: 418-419.
124. Blakemore, C., **Carpenter, R. H. S.** & Georgeson, M. A. Lateral inhibition between orientation detectors in the human visual system. *Nature* 1970; 228: 37-39.
125. Campbell, F. W., **Carpenter, R. H. S.** & Levinson, J. The visibility of aperiodic patterns. *Journal of Physiology* 1969; 204: 283-298.

126. Wolff, J. G., de la Cour, J. & **Carpenter, R. H. S.** The patterns seen when alternating current is passed through the eye. *Quarterly Journal of Experimental Psychology* 1968; 20: 1-10.
127. Brindley, G. S., **Carpenter, R. H. S.** & Rushton, D. N. Reaction times for simple shape discrimination requiring one or both visual cortices. *Quarterly Journal of Experimental Psychology* 1967; 19: 70-72.

Refereed abstracts

128. Nesaratnam, N., Weinberg, I., & **Carpenter, R.H.S.** (2012). Estimating human contrast-dependent visual delay: a new approach using saccadic competition. *Proceedings of the Physiological Society*, 27, PC252.
129. Hänzi, S., Copley, H. & **Carpenter, R. H. S.** Saccadic latency and information foraging. *Journal of Physiology Proceedings*. 2011; 23: PC299
130. Noorani, I. & **Carpenter, R. H. S.** The Timing of Antisaccades. *Journal of Physiology Proceedings*. 2011; 23: PC295
131. Pearson, B. & **Carpenter, R. H. S.** Information supply and neural decision time. *Proceedings of the Physiological Society* 2010; 19: PC230
132. Singh, M. & **Carpenter, R. H. S.** Saccadic latency with unexpected distraction. *Proceedings of the Physiological Society* 2010; 19: PC229
133. **Carpenter, R. H. S.**, Swann, M. F. & Reitter, S. J. An inexpensive solid-state stimulator for ocular pursuit. *Journal of Physiology* 2004: 555P D3.
134. Lamabadusuriya, H. I., Martin, R. I. R. & **Carpenter, R. H. S.** The effect of distractors on saccadic latency. *Journal of Physiology* 2004: 555P PC127.
135. Anderson, A. J. & **Carpenter, R. H. S.** Dynamics of probability prediction in a saccadic latency task. *Journal of Physiology* 2004: 555P D4.
136. Michell, A. W., Luheshi, L., Fritz, D., **Carpenter, R. H. S.**, Spillantini, M. G. & Barker, R. A. Peripheral biomarkers of Parkinson's Disease. *Movement Disorders* 2004: **19**, S276.
137. Adams, M. W. J., Wood, D. & **Carpenter, R. H. S.** Expectation acuity: the spatial specificity of the effect of prior probability on saccadic latency. *Journal of Physiology* 2000; 527: 140-141P.

138. Heywood, H. & **Carpenter, R. H. S.** Blood glucose and saccadic latency. *Journal of Physiology* 1998; 506: 122P.
139. **Carpenter, R. H. S.** SPIC: a PC-based system for rapid measurement of saccadic responses. *Journal of Physiology* 1994; 480: 4P.
140. **Carpenter, R. H. S.** & Jordan, S. A versatile electrode chamber for class experiments on nerve and muscle. *Journal of Physiology* 1993; 459: 301P.
141. **Carpenter, R. H. S.**, Carter, T. & Secker, B. An inexpensive magneto-resistive mechanical transducer for class experiments. *Journal of Physiology* 1993; 459: 300P.
142. **Carpenter, R. H. S.** A simple teaching aid for membrane physiology. *Journal of Physiology* 1972; 229: 16P.
143. Campbell, F. W., **Carpenter, R. H. S.** & Switkes, E. Simple scanning devices for computer modelling of visual processes. *Journal of Physiology* 1971; 217: 18-19P.
144. Blakemore, C. B. & **Carpenter, R. H. S.** A very simple device to measure human eye movements. *Journal of Physiology* 1970; 210: 75-77P.
145. **Carpenter, R. H. S.** Apparatus for quantitative investigation of vestibulo-ocular reflexes. *Journal of Physiology* 1967; 191: 100P.

Other abstracts (very incomplete list)

146. Giorlando, F., Markanday, S., Anderson, A., **Carpenter, R.**, and Berk, M. Temporal Order Assessment in Patients with Bipolar Disorder. *Procedia-Social and Behavioral Sciences* 2014; 126: 216.
147. Anderson, A. J., Stainer, M. J., Brotchie, P. & **Carpenter, R.H.S.** Saccades in unanticipated directions disrupt learnt sequences of gaze. *Clinical and Experimental Ophthalmology* 2013; 41: 121.
148. Ghosh B. C. P., **Carpenter R. H. S.** & Rowe J. B. A Longitudinal Study of Motor, Oculomotor and Cognitive Function in Progressive Supranuclear Palsy. *PLoS ONE* 2013; 8.
149. Burrell, J., Hornberger, M., **Carpenter, R. H. S.**, Kiernan, M. C., & Hodges, J. R. Disinhibition of "early" saccades in frontotemporal dementia. *Dementia and Geriatric Cognitive Disorders* 2012; 33:203-4.

150. Burrell, J., Hornberger, M., **Carpenter, R. H. S.**, Kiernan, M. C., & Hodges, J. R. Abnormal saccades detect frontal dysfunction in motor neuron disease. *Clinical Neurophysiology* 2012; 123:e74.
151. Missal, M., Quenon, L., Modena, J. & **Carpenter, R.** Saccadic latency as a window on temporal processing. *Society for Neuroscience* 2012
152. Roos J. C. P., Lachmann R. H., **Carpenter R. H. S.** & Cox, T. M. Latency vs saccadic parameters in lysosomal trials. *Ophthalmology* 2011; 98: 794.
153. Ghosh, B., Rowe, J., **Carpenter, R. H. S.**, Calder, A., Peers, P., Lawrence, A. & Hodges, J. Saccadic correlates of cognition in progressive supranuclear palsy. *Journal of Neurology, Neurosurgery and Psychiatry* 2010; 81: E29
154. Perneczky, R., Gosh, B. C. P., Hughes, L., **Carpenter, R. H. S.**, Barker, R. A., & Rowe, J. B. Associations between regional brain atrophy, executive control, and saccadic latency in Parkinson's disease and healthy ageing. *Alzheimer's & Dementia* 2010; 6: S292-3.
155. Schranz, M., Krismer, F., Roos, J., Graziadei, I., Mechtcheriakow, S., Vogel, W., **Carpenter, R. H. S.** & Zoller, H. Saccadic latency as an objective and quantitative marker of hepatic encephalopathy. 2010; *Journal of Hepatology* 52: S215.
156. Antoniadou, C. A., Xu, Z., **Carpenter, R. H. S.**, & Barker, R. A. Do different pharmacological treatments have different effects on saccadic eye movement abnormalities in Parkinson's disease. *Movement Disorders* 2009; 24: S346-7.
157. Chandna, A., Chantrasekharan, D., Ramesh, A. & **Carpenter, R. H. S.** Could saccadometry be beneficial in the diagnosis and understanding of migraine? *Cephalalgia* 2009; 29: 39-40
158. Roos, J. C. P., Lachmann, R. H., **Carpenter, R. H. S.**, & Cox, T. M. Validation of saccadic latency as a biomarker of cerebral injury in Tay-Sachs related disorders. *Annals of Neurology* 2008; 64: S30-1
159. Antoniadou, C. A., Xu, Z., **Carpenter, R. H. S.**, & Barker, R. A. Saccadic latencies as a biomarker for Huntington's and Parkinson's disease. *Movement Disorders* 2008; 23: S188.
160. Anderson, A. J. & **Carpenter, R. H. S.** Saccadic latency in stochastic and deterministic environments. 2008; *ARVO* 2008

161. Roos, J. P., Krismer, F., Vogel, W., **Carpenter, R. H. S.** & Zoller, H. M. Saccadic latencies: A novel assessment in hepatic encephalopathy. 2006; *Hepatology* 44: 461A.
162. Anderson, A. J., Yadav H. & **Carpenter, R. H. S.** The influence of return-to-fixation eye movements on saccadic latency. *Proceedings of the Australian Neuroscience Society* 2006; 17, 61.
163. Roos, J. C. P., Lachmann, R. H., **Carpenter, R. H. S.**, & Cox, T. M. Using saccadic latency to quantify cognitive function. 2006; *American Neurological Association: 131st Annual Meeting*.
164. Roos, J. C. P., Lachmann, R., Cox, T. & **Carpenter, R. H. S.** Saccadometry for estimating cerebral damage in storage diseases. *Acta Paediatrica* 2006; 95: 141
165. Roos, J. C. P., Calandrini, D. M., & **Carpenter, R. H. S.** The relation between evoked and spontaneous saccadic latencies. *Annals of Neurology* 2005; 58: Dec
166. Michell, A., F Ali, Z.X., Fritz, D., Lewis, S., and **Carpenter, R.** Saccadic eye movements: A useful clinical biomarker in neurodegeneration? *Movement Disorders* 2005; 20: S59-60.
167. Anderson, A. & **Carpenter, R. H. S.** Using eye movements to study how past experiences shape expectations. *Australian Journal of Psychology* 2005; 57: 43
168. Jones J. G., **Carpenter R. H. S.** & Lewis KE. Excessive daytime sleepiness and driving: regulations for road safety. *Clinical Medicine* 2004; 4: 595.
169. Anderson, A. & **Carpenter, R. H. S.** Latency distributions for the reversal of optokinetic nystagmus. *Investigative Ophthalmology and Visual Science* 2004; 45: U955
170. Nouraei, R., Hadinnapola, C., Alladi, S., Roos, J., Gaunt, M., & **Carpenter, R.** Objective hemisphere-specific assessment of the neurological outcome of carotid endarterectomy using quantitative oculometry. *British Journal of Surgery* 2004; 91: 14.
171. Michell, A. W., Luheshi, L., Fritz, D., **Carpenter, R. H. S.**, Spillantini, M. G., and Barker, R. Peripheral biomarkers of Parkinson's disease. 2004; *Movement Disorders* 19, S276-S276.
172. Ware, J. S., Blount, P. R., & **Carpenter R. H. S.** The dynamics of expectation: rapid effects of probabilistic cues on saccadic latency. In: Strick PL, editor. *Neural Control of Movement: 11th Annual Meeting*. Seville, 2001: D-04.

173. **Carpenter R. H. S.** & Hanes, D. P. Countermanding saccades in humans. *Society for Neuroscience Abstracts* 1997; 23: 757.

Book reviews, miscellanea

174. **Carpenter, R. H. S.** Coloured dots. *New Scientist* 2016; 231: 57.

175. **Carpenter, R. H. S.** Beyond the impact factory. *Current Biology* 2008; 18: 687.

176. **Carpenter, R. H. S.** Peerless review. *Journal of the Royal Society of Medicine* 2006; 99: 384-385

177. **Carpenter, R. H. S.** Q & A *Current Biology* 2004; 14: 941R

178. **Carpenter, R. H. S.** Eye movement research: Mechanisms, processes and applications *Perception* 1996; 25: 1379-1380

179. **Carpenter, R. H. S.** Must try harder. *New Scientist* 1993; 138: 49

180. **Carpenter, R. H. S.** Reprocessed processing. *Times Literary Supplement* 1987; 26 June: 689

Published software includes *EPIC*, *SPIC* and *NeuroLab*

Rhys Carpenter (August 5, 1889 – January 2, 1980) was an American classical art historian and professor at Bryn Mawr College. Carpenter was unconventional as a scholar. He analyzed Greek art from the standpoint of artistic production and behavior. He argued for dating the Greek alphabet to the eighth century B.C. Carpenter was born in Cotuit, Massachusetts in 1889. He received his B.A. in Classics from Columbia University in 1909. Carpenter won a Rhodes scholarship at the University of Oxford

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