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Research

Glyn Humphreys' research covers all aspects of visual cognition, laying particular stress on inter-disciplinary links between cognitive science and neuroscience, cognitive psychology and cognitive neuropsychological approaches. Work on cognitive science involves neural modelling of various cognitive functions including visual attention and search, and neuropsychological disorders of attention, word recognition, memory and action. Glyn's work on cognitive psychology is concerned with mechanisms of object recognition, visual search and scene segmentation, orthographic processes in reading, and the effects of action on attention. These same topics are also addressed using cognitive neuroscientific techniques including fMRI, EEG and TMS. Cognitive neuropsychological studies concern deficits in object recognition, reading, visual attention and action. In addition to basic research, Glyn has led the development of the Birmingham Cognitive Screen (BCoS) and ancillary screening programmes, used to assess cognition and social processing after brain injury.

Publications

2010

Anderson, G.M., Heinke, D.G. & Humphreys, G.W. (2010) Featural guidance in conjunction search: The contrast between orientation and color. *Journal of Experimental Psychology: Human Perception and Performance*, 36, 1108-1127.

Apperly, I.A., Carroll, D., Samson, D., Humphreys, G.W., Quereshi, A. & Moffitt, G. (2010) Why are there limits on theory of mind use? Evidence from adults' ability to follow instructions from an ignorant speaker. *Quarterly Journal of Experimental Psychology*, 63, 1201-1217.

Bahrami Balani, A., Soto, D. & Humphreys, G.W. (2010) Constraints on task-based control of behaviour after frontal lobe damage: A single case study. *Cognitive Neuropsychology*, 26, 635-654.

Bahrami Balani, A., Soto, D. & Humphreys, G.W. (2010) Working memory and semantic distractor effects on visual search. *Memory & Cognition*, 38, 1058-1076.

Braithwaite, J.J., Hulleman, J., Andrews, L. & Humphreys, G.W. (2010) Measuring the spread of spreading suppression: An analysis of the suppressive mechanisms underlying failures of selection and awareness. *Vision Research*, 50, 346-356.

Braithwaite, J.J., Watson, D.G., Andrews, L. & Humphreys, G.W. (2010) Visual search at isoluminance: Evidence for enhanced colour weighting in standard sub-set and preview-based visual search. *Vision Research*, 14, 1414-1425.

Cavina-Pratesi, C., Ietswaart, M., Humphreys, G.W., Lestou, V. & Milner, A.D. (2010) Impaired grasping in a patient with optic ataxia: Primary visuomotor deficit or secondary consequence of misreaching? *Neuropsychologia*, 48, 226-234.

Chechacz, M., Rotshtein, P., Bickerton, W-L., Hansen, P.C., Deb, S. & Humphreys, G.W. (2010) Separating neural correlates of allocentric and egocentric neglect reveals distinct cortical sites and common white matter disconnections. *Cognitive Neuropsychology*, 27, 277-303.

Demeyere, N., Lestou, V. & Humphreys, G.W. (2010) Neuropsychological evidence for a dissociation in counting and subitization. *Neurocase*, 16, 219-237.

Dent, K., Lestou, V. & Humphreys, G.W. (2010) Deficits in visual search for conjunctions of motion and form after parietal damage but with spared hMT+/V5. *Cognitive Neuropsychology*, 27, 72-99.

Forde, E.M.E., Rusted, J., Mennie, N., Land, M. & Humphreys, G.W. (2010) The eyes have it: An exploration of eye movements in action disorganization syndrome. *Neuropsychologia*, 7, 1895-1900.

Funes, M.F., Lupiáñez, J. & Humphreys, G.W. (2010) Analyzing the generality of conflict adaptation effects. *Journal of Experimental Psychology: Human Perception & Performance*, 36, 147-161.

Funes, M.F., Lupiáñez, J. & Humphreys, G.W. (in press) Top-down and bottom-up deficits in conflict adaptation after frontal lobe damage. *Cognitive Neuropsychology*, 27, 360-375.

Gillebert, C. & Humphreys, G.W. (2010) The decomposition of visual binding over time: Neuropsychological evidence from illusory conjunctions after posterior parietal damage. *Visual Cognition*, 18, 954-980.

Grecucci, A., David Soto, D., Humphreys, G.W., Rumiati, R.I. & Rotshtein, P. (2010) The inter-relations between verbal working memory and visual selection of emotional faces. *Journal of Cognitive Neuroscience*, 22, 1189-1200.

Hernández, M., Costa, A. & Humphreys, G.W. (2010) The mode of attention affects attentional guidance from working memory. *Attention, Perception & Performance*, 72, 963-972.

Humphreys, G.W., Allen, H.A. & Mavritsaki, E. (2010) Using biologically plausible neural models to specify the functional and neural mechanisms of visual search. *Progress in Brain Research*, 176, 135-148.

Humphreys, G.W. & Samson, D. (2010) Attention and the frontal lobes. In M. Gazzaniga (Ed.), *Cognitive Neurosciences III*. Cambridge, Mass.: MIT Press.

Humphreys, G.W., Wulff, M., Yoon, E.Y. & Riddoch, M.J. (2010) Effects of action relation and affordance that do and do not depend on a self-reference frame: Neuropsychological evidence. *Journal of Experimental Psychology: Learning Memory and Cognition*, 36, 659-670.

Humphreys, G.W., Yoon, E.Y., Kumar, S., Lestou, V., Kitadono, K., Roberts, K.L. & Riddoch, M.J. (2010 a) The interaction of attention and action: From seeing action to acting on perception. *British Journal of Psychology*, 101, 185-206.

Humphreys, G.W., Yoon, E.Y., Kumar, S., Lestou, V., Kitadono, K., Roberts, K.L. & Riddoch, M.J. (2010 b) Attention and its coupling to action. *British Journal of Psychology*, 101, 217-219.

Johnston, R.A., Dent, K., Humphreys, G.W. & Barry, C. (2010) British-English norms and naming times for a set of 539 pictures – the role of age of acquisition. *Brain Research Methods*, 42, 461-469.

Kim, J. & Humphreys, G.W. (2010) Working memory, perceptual priming and the perception of hierarchical forms: Opposite effects of priming and working memory without memory refreshing. *Attention, Perception & Psychophysics*, 72, 1533-1555.

Mavritsaki, E., Allen, H.A. & Humphreys, G.W. (2010) Decomposing the neural mechanisms of visual search through model-based analysis of fMRI: Top-down excitation, active ignoring and the use of saliency by the right TPJ. *Neuroimage*, 52, 934-946.

Mevorach, C., Hodsoll, J., Allen, H.A., Shalev, L. & Humphreys, G.W. (2010) Ignoring the elephant in the room: A neural circuit to down-regulate salience. *Journal of Neuroscience*, 30, 6072-6079.

Riddoch, M.J., Bodley-Smith, S. & Humphreys, G.W. (2010) No direction home: Extinction is affected by implicit motion. *Cortex*, 46, 678-684.

Riddoch, M.J., Chechlacz, M., Mevorach, C., Mavritsaki, E., Allen, H.A. & Humphreys, G.W. (2010) The neural mechanisms of visual selection: The view from neuropsychology. *New York Academy of Sciences*, 1191, 156-181.

Riddoch, M.J., Rappaport, S.J. & Humphreys, G.W. (2010) Extinction: A window into attentional competition. In *Progress in Brain Research*, 176, 149-159.

Roberts, K.L. & Humphreys, G.W. (2010) The one that does leads: Action relations alter the perceived temporal order of graspable objects. *Journal of Experimental Psychology: Human Perception and Performance*, 36, 776-780.

Roberts, K.L. & Humphreys, G.W. (2010) Action relationships concatenate representations of separate objects in the ventral visual system. *Neuroimage*, 42, 1541-1548.

Roberts, R. & Humphreys, G.W. (2010) **The role of somatotopy and body posture in the integration of texture across the fingers** (http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=V26Me9LkiaODPc3iL9&page=1&doc=2&colname=WOS). *Psychological Science*, 21, 476-483.

Roberts, R. & Humphreys, G.W. (2010) Visual context and practice change the distribution of attention in touch. *Brain Research*, 1351, 185-197.

Rosenthal, O. & Humphreys, G.W. (2010) Perceptual organization without perception: The subliminal learning of global contour. *Psychological Science*, 21, 1751-1758.

Rotshtein, P., Schofield, A.J., Funes, M. & Humphreys, G.W. (2010) Effects of spatial frequency bands on perceptual decision: It is not the stimuli but the comparison. *Journal of Vision*, 10, no. 25.

Soto, D., Wriglesworth, A., Bahrami-Balani, A. & Humphreys, G.W. (2010) Working memory enhances visual perception. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 36, 441-456.

Telling, A., Kumar, S., Meyer, A.S. & Humphreys, G.W. (2010) Electrophysiological evidence of semantic interference in visual search. *Journal of Cognitive Neuroscience*, 10, 2212-2225.

Telling, A., Meyer, A.S. & Humphreys, G.W. (2010) Distracted by relatives: Effects of frontal lobe damage on semantic distraction. *Brain and Cognition*, 73, 203-214.

Woodcock, K.A., Humphreys, G.W., Oliver, C. & Hansen, P.C. (2010) Neural correlates of deficient task switching in paternal 15q11-q13 deletion Prader-Willi syndrome. *Brain Research*, 1363, 128-142.

Yoon, E.Y., Riddoch, M.J., & Humphreys, G.W. (2010) The paired object affordance effect. *Journal of Experimental Psychology: Human Perception and Performance*, 36, 812-824.

2011

Anderson, G.M., Heinke, D. & Humphreys, G.W. (2011) Differential time course of implicit and explicit cueing by colour and orientation in visual search. *Visual Cognition*, 19, 258-288.

Cassidy, K. D., Quinn, K. A., & Humphreys, G. W. (2011). The influence of ingroup/outgroup categorization on same- and other-race face processing: The moderating role of inter- versus intra-racial context. *Journal of Experimental Social Psychology*, 47, 811–817.

Delvenne, J., Castriamo, J., Demeyere, N. & Humphreys, G.W. (2011) Bilateral field advantage in visual enumeration. *PLoS One*, 6, e17743.

Dent, K. & Humphreys, G.W. (2011) Neuropsychological evidence for a competitive bias against contracting stimuli. *Neurocase*, 17, 112-121.

Humphreys, G.W. & Bedford, J. (2011) The relations between joint action and Theory of Mind: A neuropsychological analysis. *Experimental Brain Research*, 211, 357-369.

Malik, F., Gul, A. & Humphreys, G.W. (2011) Behavioral and emotional problems in abused and nonabused children in a Pakistani cohort. *Pakistan Journal of Psychological Research*, 25, 179-202.

Mavritsaki, E., Heinke, D., Allen, H.A., Deco, G. & Humphreys, G.W. (2011) Bridging the gap between physiology and behavior: Evidence from the sSoTS model of human visual attention. *Psychological Review*, 118, 3-41.

Montaro, P., Luna, D. & Humphreys, G.W. (2011) Density, connectedness and attentional capture in hierarchical patterns: Evidence from simultanagnosia. *Cortex*, 47, 706-714.

Punt, D., Kitadono, K., Hulleman, J., Humphreys, G.W. & Riddoch, M.J. (2011) Modulating wheelchair navigation in patients with spatial neglect: A case series. *Neuropsychological Rehabilitation*, 21, 367-382.

Rappaport, S.A., Riddoch, M.J., Humphreys, G.W. (2011) The grouping benefit in extinction: Overcoming bias in temporal order judgement. *Neuropsychologia*, 49, 151-155.

Riddoch, M.J., Pippard, P., Booth, L., Rickell, J., Summer, J., Brownson, A. & Humphreys, G.W. (2011) Effects of action relations on the configural coding between objects. *Journal of Experimental Psychology: Human Perception and Performance*, 37, 580-587.

Riddoch, M.J., Riveros, R. & Humphreys, G.W. (2011) **Functional relations trump implied motion in recovery from extinction: Evidence from the effects of animacy on extinction.** (<http://www.ncbi.nlm.nih.gov/pubmed/20672224>) *Neurocase*, 17, 1-10.

Roberts, K.L. & Humphreys, G.W. (2011a) Action relations facilitate the identification of briefly presented objects. *Attention, Perception and Psychophysics*, 73, 597-612.

Roberts, K.L. & Humphreys, G.W. (2011b) Action-related objects influence the distribution of visuo-spatial attention. *Quarterly Journal of Experimental Psychology*, 64, 669-688.

Woodcock, K.A., Oliver, C. & Humphreys, G.W. (2011) The relationship between specific cognitive impairment and behavior in Prader-Willi syndrome. *Journal of Intellectual Disability Research*, 55, 152-171.

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