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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.

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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.

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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.

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