

1999 – 2002

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“Developing a Cognitive Model of Sight-reading in Pianists”

\$136,700

This study determined if the existing model for text reading (EZ-Reader model) is applicable for patterns of eye-movements made while reading a musical score. The study revealed that revisions in print music provided for improved pattern recognition and overall improved cognition and performance. Studies used a “moving window” paradigm which obscured the display not being fixated to determine the perceptual span in pianists. Even though the eye-hand span varies with task difficulty and sight-reading skill, the perceptual spans of sight-readers remain relatively constant. This is likely to be a consequence of the time constraints imposed upon the sight-reader.

RESEARCH PUBLICATIONS, ETC.:

2003

- Gilman, E., and G. Underwood. “Restricting the field of view to investigate the perceptual spans of pianists.” *Visual Cognition* 10(2003): 201-232.
- Gilman, E., and G. Underwood. “The perceptual span during music reading.” *The Mind’s Eye: Cognitive and Applied Aspects of Eye Movement Research*. Eds: J. Hyönä, R. Radach and H. Deubel. Amsterdam: Elsevier, 2003. 177-191.

Conference papers

2001

- Gilman, E., and G. Underwood. “The perceptual span during music reading.” 11th European Conference on Eye Movements. University of Turku, Turku, Finland. 22-25 August 2001.