

### **Visual attention:**

Akerfelt, A., Colonius, H., & Diederich, A. (2006). Visual-tactile saccadic inhibition. *Experimental Brain Research*, 169, 554-63.

Bayliss, A. P., Pellegrino, G., & Tipper, S. P. (2004). Orienting of attention via observed eye gaze is head-centred. *Cognition*, B1-B10.

Boot, W.R., Kramer, A.F., & Peterson, M.S. (2005). Oculomotor Consequences of Abrupt Object Onsets and Offsets: Onsets Dominate Oculomotor Capture. *Perception and Psychophysics*, 67 (5) 910-928.

Chang, H.-L., & Lin, S.-C.(2002). A perceptual level mechanism of the inhibition of return in oculomotor planning. *Cognitive Brain Research*, 14, 269-276.

Einhäuser, W., Kruse, W., Hoffmann, K., & König, P. (2006). Differences of monkey and human overt attention under natural conditions. *Vision Research*. 46, 1194-1209.

Franconeri, S. L., & Simons, D. J. (2005). What dynamic signals capture attention: A reply to Abrams & Christ (2005). *Perception & Psychophysics* 67, 962-966.

Frischen, A., & Tipper, S., P. (2004). Orienting Attention Via Observed Gaze Shift Evokes Longer Term Inhibitory Effects: Implications for Social Interactions, Attention, and Memory. *Journal of Experimental Psychology: General*. 133, 516-533.

Godijn, R & Theeuwes, J. (2004). The relationship between inhibition of return and saccade trajectory deviations. *Journal of Experimental Psychology: Human Perception and Performance*, 30, 538-554.

Godijn, R. & Theeuwes, J. (2002). Oculomotor Capture and Inhibition of Return. *Psychological Research*, 66; 234-246.

Godijn, R. & Theeuwes, J. (2003). Parallel allocation of attention prior to the execution of saccade sequences. *Journal of Experimental Psychology: Human Perception and Performance*, 29, 882-896.

Godijn, R. & Theeuwes, J. (2002). Programming of exogenous and endogenous saccades: Evidence for a competitive integration model. *Journal of Experimental Psychology: Human Perception and Performance* 28 (5): 1039-1054.

Irwin, D.E., Colcombe, A.M., Kramer, A.F. & Hahn, S. (2000). Attentional and oculomotor capture by onset, luminance, and color singletons. *Vision Research*, 40, 1443-1458.

Kanai, R., van der Geest, J., Frens, M. (2003). Inhibition of saccade initiation by preceding smooth pursuit. *Experimental Brain Research*, 148, 300-307.

Klein, R. M., & MacInnes, W. J. (1999). Inhibition of return is a foraging facilitator in visual search. *Psychological Science*, 10, 346-352.

Klein, R. M., Christie, J., & Morris, E. P. (2005). Vector Averaging of Inhibition of Return. *Psychonomic Bulletin & Review*. 12, 295-300.

Koivisto, M., Hyönä, J., & Revonsuo, A. (2004). The effects of eye movements, spatial attention and stimulus features on inattention blindness. *Vision Research*, 44, 3211-3221.

Kramer, A.F., Cassavaugh, N., Irwin, D.E., Peterson, M. S., & Hahn, S. (2001). Influence of single and multiple onset distractors on visual search for singleton targets. *Perception & Psychophysics*. 63, 952-968.

Li, C.-S. R., & Lin, S.-C. (2002). Inhibition of return in temporal order saccades. *Vision Research*. 42, 2089–2093.

Ludwig, C. J. H., Gilchrist, I. D. (2003). Goal-driven modulation of oculomotor capture. *Perception & Psychophysics*. 65, 1243-1251.

Ludwig, C. J. H., & Gilchrist, I. D. (2002). Stimulus-driven and goal-driven control over visual selection. *Journal of Experimental Psychology: Human Perception & Performance*. 28, 902-912.

McCarley, J.S., Wang, R., Kramer, A.F., Irwin, D.E. & Peterson, M.S. (2003). How much memory does oculomotor search have? *Psychological Science*, 14, 422-426.

McCarley, J. S., Kramer, A. F., & Peterson, M. S. (2002). Overt and covert object-based attention. *Psychonomic Bulletin & Review*. 9, 751-758.

Mortier, K., Donk, M., & Theeuwes, J. (2003). Attentional capture within and between objects. *Acta Psychologica*, 113 (2): 133-145.

Ouerhani, N., von Wartburg, R., Hugli, H., & Muri, R. (2004). Empirical Validation of the Saliency-based Model of Visual Attention. *Electronic Letters on Computer Vision and Image Analysis* 3, 13-24.

Peterson, M.S. & Kramer, A.F. (2001). Attentional guidance of the eyes by contextual information and abrupt onsets. *Perception and Psychophysics*, 63, 1239-1249.

Peterson, M.S., Kramer, A.F., Irwin, D.E. & Hahn, S. (2002). Modulation of oculomotor control by abrupt onsets during attentionally demanding visual search. *Visual Cognition*, 9, 755-791.

- Peterson, M.S., Kramer, A.F. & Irwin, D.E. (2004). Covert shifts of attention precede involuntary eye movements. *Perception and Psychophysics*, 66, 398-405.
- Slotnick, S.D., Hopfinger, J.B., Klein, S.A., Sutter E.E.. (2002) Darkness beyond the light: attentional inhibition surrounding surrounding the classic spotlight. *Neuroreport* 13, 773-778.
- Theeuwes, J. Olivers, C.N.L. & Chizk, C.L. (2005) Remembering a location makes the eyes curve away. *Psychological Science*, 16, 196-199.
- Theeuwes, J. de Vries, G.J. & Godijn, R. (2003). Attentional and oculomotor capture with static singletons. *Perception and Psychophysics* 65 (5): 735-746.
- Theeuwes, J, Kramer, A.F, Hahn, S. & Irwin, D. E. (1998). Our eyes do not always go where we want them to go: capture of the eyes by new objects. *Psychological Science*, 9, 379-385.
- Theeuwes, J. Kramer, A.F., Hahn, S., Irwin, D.E. & Zelinsky, G.J. (1999). Influence of attentional capture on oculomotor control. *Journal of Experimental Psychology: Human Perception & Performance*, 25, 1595-1608.
- Theeuwes, J. & Godijn, R. (2004). Inhibition of return and oculomotor interference. *Vision Research* 44, 1485-1492.
- Theeuwes, J., Godijn R. & Pratt, J. (2004). A new estimation of the attentional dwell time. *Psychonomic Bulletin & Review* 11, 60-64.
- Turk-Browne, N. & Pratt, J. (2005) Attending to eye movements and retinal eccentricity: Evidence for the Activity Distribution Model of Attention reconsidered. *Journal of Experimental Psychology: Human Perception and Performance*, 31, 1061-1066.
- Van der Stigchel, S. & Theeuwes, J. (2006). Our eyes deviate away from a location where a distractor is expected to appear. *Experimental Brain Research*, 169, 338-349.
- Van der Stigchel, S. & Theeuwes, J. (2005). The influence of attending to multiple locations on eye movements. *Vision Research*, 45, 1921-1927.
- van Zoest, W., Donk, M., & Theeuwes, J. (2004). The role of stimulus-driven and goal-driven control in visual selection. *Journal of Experimental Psychology: Human Perception and Performance*, 30, 746-759.
- Weger, U. W., Inhoff, A. W. (2006). Attention and Eye Movements in Reading: Inhibition of Return Predicts the Size of Regressive Saccades. *Psychological Science*. 17, 187-191.

Yantis, S., Schwarzbach, J., Serences, J. T., Carlson, R. L., Steinmetz, M. A., Pekar, J. J., & Courtney, S. M. (2002). Transient neural activity in human parietal cortex during spatial attention shift. *Nature Neuroscience*, 5, 995-1002.

Yantis, S., & Slotnick, S. (2005). Common neural substrates for the control and effects of visual attention and perceptual bistability. *Cognitive Brain Research*, 24, 97-108.

### **Visual/Perceptual Span:**

Chung, S. T. L., Legge, G. E., & Cheung, S.-H. (2004). Letter-recognition and reading speed in peripheral vision benefit from perceptual learning. *Vision Research*, 44, 695-709.

Chung, S. T. L., (2004). Reading Speed Benefits from Increased Vertical Word Spacing in Normal Peripheral Vision. *Optometry & Vision Science*. 81, 525-535.

Pomplun, M., Reingold, E. M., & Shen, J. (2001). Investigating the visual span in comparative search: The effects of task difficulty and divided attention. *Cognition*, 81, B57-B67.

Sommerhalder, G., Oueghlani, E., Bagnoud, B., Leonards, U., Safran, A. B., & Pelizzone, P. (2003). Simulation of artificial vision: I. Eccentric reading of isolated words, and perceptual learning. *Vision Research*. 43, 269-283.

### **Gaze Contingent:**

Greene, H. H., & Rayner, K. (2001). Eye movements and familiarity effects in visual search. *Vision Research*. 41, 3763-3773.

Hyönä, J., Bertram, R., & Pollatsek, A. (2004). Are long compound words identified serially via their constituents? Evidence from an eye-movement contingent display change study. *Memory & Cognition*, 32, 523-532.

McCarley, J. S., Kramer, A. F., & Peterson, M. S. (2002). Overt and covert object-based attention. *Psychonomic Bulletin & Review*. 9, 751-758.

McCarley, J. S., Wang, R. F., Kramer, A. F., Irwin, D. E., Peterson, & M. S. (2003). How much memory does oculomotor search have? *Psychological Science*, 14, 422-426.

Pomplun, M., Reingold, E. M., & Shen, J. (2001). Investigating the visual span in comparative search: The effects of task difficulty and divided attention. *Cognition*, 81, B57-B67.

Pomplun, M., Reingold, E. M., & Shen, J. (2001). The effects of peripheral and parafoveal cueing and masking on saccadic selectivity in a gaze-contingent window paradigm. *Vision Research*, 41, 2757-2769.

Reingold, E. M., & Loschky, L. C. (2002). Saliency of peripheral targets in gaze-contingent multiresolutional displays. *Behavior Research Methods, Instruments & Computers*. Special Issue: Eye movement research methods. 34, 491-499.

Reingold, E. M., & Stampe, D. M. (2000). Saccadic inhibition and gaze contingent research paradigms. In Kennedy, Alan, Radach, Ralph et al. (Eds.) *Reading as a perceptual process* (pp. 119-145). Amsterdam, Netherlands: North-Holland/Elsevier Science Publishers.

Shen, J., Reingold, E. M., Pomplun, M., & Williams, D. E. (2003). Saccadic selectivity during visual search: The influence of central processing difficulty. In J. Hyönä, R. Radach & H. Deubel (Eds), *The Mind's Eyes: Cognitive and Applied Aspects of Eye Movement Research* (pp. 65-88). Amsterdam: Elsevier Science Publishers.

### **Gaze Control:**

Kitamura, Y., Horii, K., Takeuchi, O., Kotani, & d'Ydewalle, G. (2003). Determining the parameters for the scrolling text display technique. In J. Hyönä, R. Radach & H. Deubel (Eds), *The Mind's Eyes: Cognitive and Applied Aspects of Eye Movement Research* (pp. 645-656). Amsterdam: Elsevier Science Publishers.

Pomplun, M., Ivanovic, N., Reingold, E.M. & Shen, J. (2001). Empirical evaluation of a novel gaze-controlled zooming interface. In M.J. Smith, G. Salvendy, D. Harris & R.J. Koubek (Eds.), *Usability Evaluation and Design: Cognitive Engineering, Intelligent Agents and Virtual Reality. Proceedings of HCI International 2001* (pp. 1333-1337). Mahwah, New Jersey: Lawrence Erlbaum Associates.

### **Pursuit:**

Erkelens, C. J. (in press). Coordination of smooth pursuit and saccades. *Vision Research*.

Gagnon, D., Paus, T., Grosbras, M.-H., Pike, G. B., & O'Driscoll, G. A. (2006). Transcranial Magnetic Stimulation of Frontal Oculomotor Regions during Smooth Pursuit. *The Journal of Neuroscience*, 26, 458-466.

Hutton, S. B., & Tegally, D. (2005) The effects of dividing attention on smooth pursuit eye tracking. *Experimental Brain Research*. 163, 306 - 313.

Kerzel, D. & Ziegler, N. E. (2005). Visual short-term memory during smooth pursuit eye movements. *Journal of Experimental Psychology: Human Perception and Performance*, 31(2), 354-372.

Kerzel, D., & Gegenfurtner, K. R. (2003). Neuronal Processing Delays Are Compensated in the Sensorimotor Branch of the Visual System. *Current Biology*, 13, 1975-1978.

Kerzel, D., Aivar, M. P., Ziegler, N. E., & Brenner, E. (2006). Mislocalization of flashes during smooth pursuit hardly depends on the lighting conditions. *Vision Research*, 46, 1145-1154.

Kerzel, D. (2004). Attentional load modulates mislocalization of moving stimuli, but does not eliminate the error. *Psychonomic Bulletin & Review*. 11, 848-853.

Li, H-C. O., Brenner, E., Cornelissen, F. W. & Kim, E. S. (2002) Systematic distortion of perceived 2D shape during smooth pursuit eye-movements. *Vision Research*, 42, 2569-2575.

O'Driscoll, G. A., Wolff, A. L. V., Benkelfat, C., Florencio, P. S., Lal, S., Evans, A. C. (2000). Functional neuroanatomy of smooth pursuit and predictive saccades. *Neuroreports*. 11, 1335-1340.

Rotman, G., Brenner, E., & Smeets, J. B. (2004). Mislocalization of targets flashed during smooth pursuit depends on the change in gaze direction after the flash. *Journal of Vision*. 4, 564-57. <http://journalofvision.org/4/7/4/> .

Suh, M., Kolster, R., Sarkar, R., McCandliss, B., & Ghajar, J. (in press). Deficits in predictive smooth pursuit after mild traumatic brain injury. *Neuroscience Letters*.

Souman, Jan L; Hooge, Ignace Th C; Wertheim, Alexander H (2005). Vertical object motion during horizontal ocular pursuit: compensation for eye movements increases with presentation duration. *Vision Research*. 45, 845-853.

Spring, M., Kerzel, D., Braun, D. I., Hawken, M. J., Gegenfurtner, K. R., (2005). Effects of contrast on smooth pursuit eye movements. *Journal of Vision*. 5, 455-465. <http://journalofvision.org/5/5/6/>

Stork, S., Neggers, S. F. W., & Muesseler, J. (2002). Intentionally-evoked modulations of smooth pursuit eye movements. *Human Movement Science*. 21, 335-348.

van den Berg, A.V., Beintema, J.A., & Frens, M. A. (2001). Heading and path percepts from visual flow and eye pursuit signals. *Vision Research*. 41, 3467–3486.

### **Vergence:**

Backus, B. T., & Matza-Brown, D. (2003). The contribution of vergence change to the measurement of relative disparity. *Journal of Vision*, 3, 737-750.

Essig, K., Pomplun, M., & Ritter, H. (2006). A neural network for 3D gaze recording with binocular eye trackers. *International Journal of Parallel, Emergent, and Distributed Systems*, 21, 79-95.

**VOR (Vestibuloocular reflex):**

Coesmans, M., Smitt, P. A. S., Linden, D. J., Shigemoto, R., Hirano, T., Yamakawa, Y., Van Alphen, A. M., Luo, C., Van Der Geest, J. N., Kros, J. M., Gaillard, C. A., Frens, M. A., De Zeeuw, C. I. (2003). Mechanisms underlying cerebellar motor deficits due to mGluR1-autoantibodies. *Annals of Neurology*, 53, 325-336.

**OKN:**

Harris, L. R., & Smith, A. T. (2000). Interactions between first- and second-order motion revealed by optokinetic nystagmus. *Experimental Brain Research*. 130, 67-72.

**Microsaccades:**

Engbert, R., & Kliegl, R. (2003). Binocular coordination in microsaccades. In J. Hyönä, R. Radach & H. Deubel (Eds), *The Mind's Eyes: Cognitive and Applied Aspects of Eye Movement Research* (pp. 103-117). Amsterdam: Elsevier Science Publishers.

Engbert, R., & Kliegl, R. (2003). Microsaccades uncover the orientation of covert attention. *Vision Research*. 43, 1035-1045.

Engbert, R., & Kliegl, R. (2004). Microsaccades keep the eyes' balance. *Psychological Science*, 15, 431-436.

Laubrock, J., Engbert, R., & Kliegl, R. (2005). Microsaccade dynamics during covert attention. *Vision Research*, 45, 721-730.

Martinez-Conde, S., Macknik, S. L., Tronconso, X. G., Dyar, T. A. (2006). Microsaccades counteract visual fading during fixation. *Neuron*, 49, 297-305.

Rolfs, M., Engbert, R., & Kliegl, R. (2004). Microsaccade orientation supports attentional enhancement opposite to a peripheral cue. *Psychological Science*, 15, 705-707.

Rolfs, M., Laubrock, J., & Kliegl, R. (2006). Shortening and prolongation of saccade latencies following microsaccades. *Experimental Brain Research*, 169, 369-376.

**Saccade Programming:**

Akerfelt, A., Colonius, H., & Diederich, A. (2006). Visual-tactile saccadic inhibition. *Experimental Brain Research*. 169, 554-63.

Alahyane, N., & Pelisson, D. (2003). Adaptation of Saccadic Eye Movements: Transfer and Specificity. *Annals of New York Academy of Sciences*. 1004, 69-77.

Alahyane, N., & Pelisson, D. (2004). Eye position specificity of saccadic adaptation. *Investigative Ophthalmology & Visual Science*. 45, 123 - 130.

- Alahyane, N., & Pelisson, D. (2005). Retention of Saccadic Adaptation in Humans. *Annals of the New York Academy of Sciences*. 1039, 558–562.
- Amlôt, R., & Walker, R. (2006) Are somatosensory saccades voluntary or reflexive? *Experimental Brain Research*, 168, 557-565.
- Amlôt, R., Walker, R., Driver, J., & Spence, C. (2003). Multimodal visual-somatosensory integration in saccade generation. *Neuropsychologia*. 41, 1-15.
- Diederich, A., Colonius, H., Bockhorst, D., & Tabeling, S. (2003). Visual-tactile spatial interaction in saccade generation. *Experimental Brain Research*. 148, 328–337.
- Doyle, M., & Walker, R. (2001). Curved saccade trajectories: Voluntary and reflexive saccades curve away from irrelevant distractors. *Experimental Brain Research*. 139, 333 - 344.
- Doyle, M.C., & Walker, R. (2002). Multisensory interactions in saccade target selection: Curved saccade trajectories. *Experimental Brain Research*. 142, 116- 130.
- Fecteau, J. H., Au, C., Armstrong, I. T. and Munoz, D. P. (2004) Sensory biases produce the alternation advantage found in sequential saccadic eye movement tasks. *Exp. Brain Res*. 159: 84-91.
- Colonius, H., & Diederich, A. (2004). Multisensory Interaction in Saccadic Reaction Time: A Time-Window-of-Integration. *Journal of Cognitive Neuroscience*. 16, 1000-1009.
- Gaveau, V., Martin, O., Prablanc, C., Péliesson, D., Urquizar, C., & Desmurget, M. (2003). On-line modification of saccadic eye movements by retinal signals. *Neuroreport*, 14, 875-878.
- Ludwig, C. J. H., Gilchrist, I. D., & McSorley, E. (2005). The remote distractor effect in saccade programming: channel interactions and lateral inhibition. *Vision Research*. 45, 1177-1190.
- Ludwig, C. J. H., Gilchrist, I. D. (2002). Measuring saccade curvature: A curve-fitting approach. *Behavior Research Methods, Instruments & Computers*. 34, 618-624.
- Ludwig, C. J. H., Gilchrist, I. D., & McSorley, E. (2004). The influence of spatial frequency and contrast on saccade latencies. *Vision Research*. 44, 2597-2604.
- Lünenburger, L., & Hoffmann, K.-P. (2003). Arm movement and gap as factors influencing the reaction time of the second saccade in a double-step task. *European Journal of Neuroscience*, 17, 2481-2491.



- McSorley, E., Haggard, P., & Walker, R. (2005). Distractor modulation of saccade trajectories: trajectories are not spatially sensitive to distractor location. *Vision Research*, 45, 2492-2499.
- Michels, L., & Lappe, M. (2004). Contrast dependency of saccadic compression and suppression. *Vision Research*, 44, 2327-2336.
- Mitchell, J. P., Macrae, C. N., & Gilchrist, I. D. (2002). Working memory and the suppression of reflexive saccades. *Journal of Cognitive Neuroscience*. 14, 95-103.
- Pannasch, S., Dornhoefer, S.M., Unema, P.J.A. & Velichkovsky, B.M. (2001). The omnipresent prolongation of visual fixations: saccades are inhibited by changes in situation and in subject's activity. *Vision Research*. 41, 3345-51.
- Pratt, J., Shen, J., & Adam, J. J. (2004). The planning and execution of sequential eye movements: Saccades do not show the one target advantage. *Human Movement Science*, 22, 679-688.
- Pratt, J. & Trottier, L. (2005) Pro-saccades and anti-saccades to onset and offset targets. *Vision Research*, 45, 765-774.
- Reingold, E. M., & Stampe, D. M. (2000). Saccadic inhibition and gaze contingent research paradigms. In Kennedy, Alan, Radach, Ralph et al. (Eds.) *Reading as a perceptual process* (pp. 119-145). Amsterdam, Netherlands: North-Holland/Elsevier Science Publishers.
- Reingold, E. M., & Stampe, D. M. (2002). Saccadic Inhibition in Voluntary and Reflexive Saccades. *Journal of Cognitive Neuroscience*. 14, 371-388.
- Reingold, E. M., & Stampe, D. M. (2004). Saccadic inhibition in reading. *Journal of Experimental Psychology: Human Perception and Performance*. 300, 194-211.
- Rolfs, M., Engbert, R., & Kliegl, R. (2005). Crossmodal coupling of oculomotor control and spatial attention in vision and audition. *Experimental Brain Research*, 166, 427-439.
- Smeets, J. B. J., & Hooge, I. T. C. (2003). Nature of variability in saccades. *Journal of Neurophysiology*, 12-20.
- Trottier, L. & Pratt, J. (2005) Visual processing of targets can reduce saccadic latencies. *Vision Research*, 45, 1349-1354
- van Zoest, W. & Donk, M. (2005) The effects of salience on saccadic target selection. *Visual Cognition*. 12, 353-375.

van Zoest, W. & Donk, M. (2006). Saccadic target selection as a function of time. *Spatial Vision*. 19, 61-76.

White, B. J., Gegenfurtner, K. R., & Kerzel, D. (2005). Effects of Structured Nontarget Stimuli on Saccadic Latency. *Journal of Neurophysiology*. 93, 3214-3223.

### **Fixation:**

Crossland, M. D., Culham, L. E., & Rubin, G. S. (2004). Fixation stability and reading speed in patients with newly developed macular disease. *Ophthalmic and Physiological Optics*. 24, 327-333.

Greschner, M., Bongard, M., Rujan, P., & Ammermüll, J. (2002). Retinal ganglion cell synchronization by fixational eye movements improves feature estimation. *Nature Neuroscience*, 5, 341-347.

Liang, J.-R., Moshel, S., Zivotofsky, A.Z., Caspi, A., Engbert, R., Kliegl, R., & Havlin, S. (2005). Scaling of horizontal and vertical fixational eye movements. *Physical Review E*, 71, 031909.

Martinez-Conde, S., Macknik, S. L., Tronconso, X. G., Dyar, T. A. (2006). Microsaccades counteract visual fading during fixation. *Neuron*, 49, 297-305.

Moshel, S., Liang, J.-R., Caspi, A., Engbert, R., Kliegl, R., Havlin, S., & Zivotofsky, A.Z. (2005). Phase-synchronization decay of fixational eye movements. *Annals of the New York Academy of Sciences*, 1039, 484-488.

Tatler, B. W., Baddeley, R. J., & Gilchrist, I. D. (2005). Visual correlates of fixation selection: Effects of scale and time. *Vision Research*. 45, 643-659.

Tatler, B. W., Baddeley, R. J., & Vincent, B. T. (2006). The long and the short of it: spatial statistics at fixation vary with saccade amplitude and task. *Vision Research*, 46, 1857-1862.

### **Eye-hand coordination:**

Deubel, H., & Schneider, W. X. (2003). Delayed Saccades, but Not Delayed Manual Aiming Movements, Require Visual Attention Shifts. *ANNALS NEW YORK ACADEMY OF SCIENCES*. 1004, 289-296.

de Oliveira, S. C., & Barthélémy, S. (2005). Visual feedback reduces bimanual coupling of movement amplitudes, but not of directions. *Experimental Brain Research*. 162, 78-88.

Hannus, A., Neggers, S., Cornelissen, F.W., Bekkering, H. (2005). Selection-for-action in Visual Search. *Acta Psychologica*. 118, 171-191.

Horstmann, A., & Hoffmann, K.-P. (2005). Target selection in eye-hand

coordination: Do we reach to where we look or do we look to where we reach? *Experimental Brain Research*. 167, 187-195.

Lemay, M. Stelmach, G. E. (2005). Multiple frames of reference for pointing to a remembered target. *Experimental Brain Research*. 164, 301-310.

Neggers, S.F.W., & Bekkering, H. (2000). Ocular gaze is anchored to the target of an ongoing pointing movement. *The Journal of Neurophysiology*, 83, 639-651.

Neggers, S.F.W., & Bekkering, H. (2001). Gaze anchoring to a pointing target is present during the entire pointing movement and is driven by a non-visual signal. *The Journal of Neurophysiology*. 86, 961-970.

Neggers, S.F.W.; Bekkering, H. (2002). Coordinated control of eye and hand movements in dynamic reaching. *Human Movement Science*. 21, 37-64.

Rotman, G., Brenner, E., & Smeets, J. B. (2004). Mislocalization of targets flashed during smooth pursuit depends on the change in gaze direction after the flash. *Journal of Vision*. 4, 564-574.

Saijo, N., Murakami, I., Nishida, S., & Gomi, H. (2005). Large-Field Visual Motion Directly Induces an Involuntary Rapid Manual Following Response. *The Journal of Neuroscience*, 25, 4941-4951.

### **Multi-tasking:**

Hodgson, T.L., Golding, C., Molyva, D., Rosenthal, C.R., Kennard, C. (2004) Eye movements during task switching: Reflexive, symbolic, and affective contributions to response selection *Journal Of Cognitive Neuroscience*. 16, 318-330.

Hunt, A.R., & Klein, R. M. (2002). Eliminating the cost of task set reconfiguration. *Memory & Cognition*. 30, 529-539.

### **Neuropsychology:**

Altmann, C. F., Deubelius, A., & Kourtzi, Z. (2004). Shape Saliency Modulates Contextual Processing in the Human Lateral Occipital Complex. *Journal of Cognitive Neuroscience*. 16:794-804.

Bellebaum, C., Daum, I., Koch, B., Schwarz, M., & Hoffmann, K.-P. (2005). The role of the human thalamus in processing corollary discharge. *Brain*. 128, 1139-1154.

Bellebaum, C., Hoffmann, K.-P., Daum, I. (2005). Post-saccadic updating of visual space in the posterior parietal cortex in humans. *Behavioural Brain Research*. 163, 194-203.

Coemans, M., Smitt, P. A. S., Linden, D. J., Shigemoto, R., Hirano, T., Yamakawa, Y., Van Alphen, A. M., Luo, C., Van Der Geest, J. N., Kros, J. M., Gaillard, C. A., Frens, M. A., De Zeeuw, C. I. (2003). Mechanisms underlying cerebellar motor deficits due to mGluR1-autoantibodies. *Annals of Neurology*, 53, 325-336.

Gagnon, D., O'Driscoll, G. A., Petrides, M., Pike, G. B. (2002). The effect of spatial and temporal information on saccades and neural activity in oculomotor structures. *Brain*. 125, 123-139.

Grill-Spector, K., Kushnir, T., Hendler, T., & Malach, R. (2000) The dynamics of object-selective activation correlate with recognition performance in humans. *Nature neuroscience*, 3, 837-843.

Helmchen, C., Sprenger, A., Rambold, H., Sander, T., Kompf, D., & Straumann, D. (2004). Effect of 3,4-diaminopyridine on the gravity dependence of ocular drift in downbeat nystagmus. *Neurology*, 63, 752.

Liu, T., Slotnick, S. D., Serences, J. T., & Yantis, S. (2003). Cortical Mechanisms of Feature-based Attentional Control. *Cerebral Cortex*, 13, 1334-1343.

Medendorp, W. P., Goltz, H. C., Crawford, J. D., & Vilis, T. (2005). Integration of Target and Effector Information in Human Posterior Parietal Cortex for the Planning of Action. *Journal of Neurophysiology*. 93, 954–962.

Moores L.E., Laiti L., & Chelazzi L. (2003) Associative knowledge controls deployment of visual selective attention. *Nature Neuroscience*, 6, 182-189.

Serences, J. T., Schwarzbach, J., Courtney, S., Golay, X., & Yantis, S. (2004). Control of Object-based Attention in Human Cortex. *Cerebral Cortex*. 14, 1346-1357.

Slotnick, S. D., & Yantis, S. (2005). Common neural substrates for the control and effects of visual attention and perceptual bistability. *Cognitive Brain Research*, 24, 97–108.

### **Clinical studies:**

#### ***ADHD:***

Armstrong, I. T. and Munoz, D. P. (2003) Inhibitory control of eye movements during oculomotor countermanding in adults with attention deficit hyperactivity disorder. *Exp. Brain Res*. 152: 444-452.

Armstrong, I. T. and Munoz, D. P. (2003) Attentional blink in adults with attention-deficit hyperactivity disorder: influence of eye movements. *Exp. Brain Res*. 152: 243-250.

Li, C.-S. R., Chang, H.-L., & Lin, S.-C. (2003). Inhibition of return in children with attention deficit hyperactivity disorder. *Experimental Brain Research*, 149, 125-130.

Munoz, D. P., & Armstrong, I. T. (2003). Attentional blink in adults with attention-deficit hyperactivity disorder. *Experimental Brain Research*. 152, 243-250.

Munoz, D. P., & Armstrong, I. T. (2003). Inhibitory control of eye movements during oculomotor countermanding in adults with attention-deficit hyperactivity disorder. *Experimental Brain Research*. 152, 444-452.

O'Driscoll, G. A., Dépatie, L., Holahan, A. V., Savion-Lemieux, T., Barr, R. G., Jolicoeur, Cl., & Douglas, V. I. (2005). Executive Functions and Methylphenidate Response in Subtypes of Attention-Deficit/Hyperactivity Disorder. *Biological Psychiatry*, 57, 1452-1460.

### ***Alzheimer:***

Mosimann, U. P., Felblinger, J., Ballinari, P., Hess, C. W., & Müri, R. M. (2004). Visual exploration behaviour during clock reading in Alzheimer's disease. *Brain*, Vol. 127, No. 2, 431-438

### ***Parkinson Disease:***

Bekkering, H., Neggers, S. F. W., Walker, R., Gleissner, B., Dittrich, W. H., & Kennard, C. (2001). The preparation and execution of saccadic eye and goal-directed hand movements in patients with Parkinson's disease. *Neuropsychologia*, 39, 173-183.

Chan, F., Armstrong, I. T., Pari, G., Riopelle, R. J., & Munoz, D. P. (2005). Deficits in saccadic eye-movement control in Parkinson's disease. *Neuropsychologia*, 784-796.

Hodgson, T. L., Tiesman, B., Owen, A. M., & Kennard, O. C. (2002). Abnormal gaze strategies during problem solving in Parkinson's disease. *Neuropsychologia*, 411-422.

Ketcham, C. J., Hodgson, T. L., Kennard, C., & Stelmach, G. E. (2003). Memory-motor transformations are impaired in Parkinson's disease. *Experimental Brain Research*. 149, 30-29.

### ***Nystagmus***

Harris, L. R., & Smith, A. T. (2000). Interactions between first- and second-order motion revealed by optokinetic nystagmus. *Experimental Brain Research*. 130, 67-72.

Helmchen, C., Sprenger, A., Rambold, H., Sander, T., Kompf, D., & Straumann, D. (2004). Effect of 3,4-diaminopyridine on the gravity dependence of ocular drift in downbeat nystagmus. *Neurology*, 63, 752.

Sprenger A, Zils E, Rambold H, Sander T, Helmchen C. (2005). Effect of 3,4-diaminopyridine on the postural control in patients with downbeat nystagmus. *Annals of New York Academy of Sciences*. 1039: 395–403.

### ***Macular Disease, and ocular pathology***

Crossland, M. D., Culham, L. E., & Rubin, G. S. (2004). Fixation stability and reading speed in patients with newly developed macular disease. *Ophthalmic and Physiological Optics*. 24, 327-333.

Crossland, M.D., Rubin, G.S. (2002). The use of an infra-red eyetracker in the assessment of macular disease. *Optometry and Vision Science*, 79, 735-739.

Crossland, M. D., & Rubin, G. S. (2006). Eye movements and reading in macular disease: Further support for the shrinking perceptual span hypothesis. *Vision Research*, 46, 590-597.

Coeckelbergh, T.R.M., Cornelissen, F.W., Brouwer, W.H., & Kooijman, A.C. (2002). The effect of visual field defects on eye movements and practical fitness to drive. *Vision Research*. 42, 669-677.

Tant, M.L.M., Cornelissen, F. w., Kooijman, A. C., Brouwer, W.H. (2002). Hemianopic visual field defects elicit hemianopic scanning. *Vision Research*. 42, 1339–1348.

### ***artificial scotomas***

Cornelissen, F.W., Bruin, K.J., & Kooijman, A.C. (2005). The influence of artificial scotomas on eye-movements during visual search. *Optometry & Visual Science*. 82.

Fornos, A.P., Sommerhalder, J., Rappaz, B., Pelizzone, M., & Safran, A. B. (2006). Processes Involved in Oculomotor Adaptation to Eccentric Reading. *Investigative Ophthalmology and Visual Science*. 47, 1439-1447.

### ***multiple sclerosis.***

Frohman, E., M., Frohman, T. C., O'Suilleabhain, P., Zhang, H., Hawker, K., Racke, M. K., Frawley, W., Phillips, J. T., & Kramer, P. D. (2002). Quantitative oculographic characterisation of internuclear ophthalmoparesis in multiple sclerosis: the versional dysconjugacy index Z score. *Journal of Neurology Neurosurgery and Psychiatry*. 73, 51-55.

Frohman, E. M., Frohman, T. C., Fleckenstein, J., Rackea, M. K., Hawker, K., & Kramer, P. D., (2001). Ocular contrapulsion in multiple sclerosis: clinical features

and pathophysiological mechanisms. *Journal of Neurol Neurosurg Psychiatry*, 70, 688-692.

Frohman, E. M., Zhang, H., Kramer, P. D., Fleckenstein, J., Hawker, K., Racke, M. K., & Frohman, T. C. (2001). MRI characteristics of the MLF in MS patients with chronic internuclear ophthalmoparesis. *Neurology*, 57, 762-768.

Proudlock, F. A., Gottlob, I., & Constantinescu, C. S. (2002). Oscillopsia Without Nystagmus Caused by Head Titubation in a Patient with Multiple Sclerosis. *Journal of Neuro-Ophthalmology*, 22, 88-91.

### ***Schizophrenia:***

Dépatie, L., O'Driscoll, G. A., Holahan, A.-L. V., Atkinson, V., Thavundayil, J. X., Kin, N. Y., & Lal, S. (2002). Nicotine and Behavioral Markers of Risk for Schizophrenia: A Double-Blind, Placebo-Controlled, Cross-Over Study. *Neuropsychopharmacology*, 27, 1056-1070.

Holahan, A.-L., V., & O'Driscoll, G. A. (2005). Antisaccade and smooth pursuit performance in positive- and negative-symptom schizotypy. *Schizophrenia Research*, 76, 43-54.

Gooding, D. C., & Tallent, K. A. M. S. (2001). The Association between Antisaccade Task and Working Memory Task Performance in Schizophrenia and Bipolar Disorder. *The Journal of Nervous and Mental Disease*, 189, 8-16.

Gooding, D. C., Mohapatra, L., and Shea, H. B. (2004). Temporal stability of saccadic task performance in schizophrenia and bipolar patients. *Psychological Medicine*, 34, 921-932.

O'Driscoll, G.A., Benkelfat, C., Florencio, P., Wolff, A.L.V., Joober R., Lal, S., Evans, A.C. (1999). Neural correlates of eye-tracking deficits in first-degree relatives of schizophrenic patients: a PET study. *Archives of General Psychiatry*, 56: 1127-1134.

### ***Spatial Neglect:***

Dijkerman, H. C., McIntosh, R. D., Milner, A. D., Rossetti, Y., Tilikete, c., & Roberts, R. C. (2003). Ocular scanning and perceptual size distortion in hemispatial neglect: effects of prism adaptation and sequential stimulus presentation. *Experimental Brain Research*, 153, 220 - 230.

Harvey, M., Olk, B., Muir, K., & Gilchrist, I.D. (2002). Manual responses and saccades in chronic and recovered hemispatial neglect: a study using visual search. *Neuropsychologia*, 40, 705-717.

Harvey, M., Gilchrist, I.D., Olk, B., & Muir, K. (2002). Eye-movement patterns do not mediate size distortion effects in hemispatial neglect: looking without seeing. *Neuropsychologia*. 41, 1114–1121.

Husain, M., Mannan, S., Hodgson, T., Wojciulik, E., Driver, J., & Kennard, C. (2001). Impaired spatial working memory across saccades contributes to abnormal search in parietal neglect. *Brain*. 124, 941-952.

Malhotra, P., Mannan, S., Driver, J., & Husain, M. (2004). Impaired spatial working memory: One component of the visual neglect syndrome? *Cortex*, 40, 667-676.

Mannan, S. K., Mort, D. J., Hodgson, T. L., Driver, J., Kennard, C., & Husain, M. (2005). Revisiting Previously Searched Locations in Visual Neglect: Role of Right Parietal and Frontal Lesions in Misjudging Old Locations as New. *Journal of Cognitive Neuroscience*. 17, 340–354.

Olk, B., Harvey, M., & Gilchrist, I. D. (2002). First Saccades Reveal Biases in Recovered Neglect. *Neurocase*, 8, 306 - 313.

***Alexia:***

McDonald, S. A., Spitsyna, G., Shillcock, R. C., Wise, R. J. S., & Leff, A. P. (2006). Patients with hemianopic alexia adopt an inefficient eye movement strategy when reading text. *Brain*, 129, 158-167.

***Other:***

Jansonius, N. M., van der Vliet, T. A., Cornelissen, F. W., Pott, J. W. R., & Kooijman, A. C. (2001). A girl without a chiasm: Electrophysiologic and MRI Evidence for the absence of crossing optic nerve fibers in a girl with a congenital nystagmus. *Journal of Neuro-Ophthalmology*. 21, 26-29.

LeVasseur, A. L., Flanagan, J. R., Riopelle, R. J., & Munoz, D. P. (2001) Control of volitional and reflexive saccades in Tourette's syndrome. *Brain*, 124, 2045-2058.

Suh, M., Kolster, R., Sarkar, R., McCandliss, B., & Ghajar, J. (in press). Deficits in predictive smooth pursuit after mild traumatic brain injury. *Neuroscience Letters*.

Tant ML, Cornelissen FW, Kooijman AC, Brouwer WH. (2002). Hemianopic visual field defects elicit hemianopic scanning. *Vision Research*. 42, 1339-1348.

Thomas, S., Critchley, P., Lawden, M., Farooq, S., Thomas, A., Proudlock, F. A., Constantinescu, S. C., & Gottlob, I. (2005). Stiff person syndrome with eye movement abnormality, myasthenia gravis, and thymoma. *Journal of Neurology Neurosurgery and Psychiatry*. 76, 141-142.

**Perception and Illusions:**



- Brenner, E., & Cornelissen, F. W. (2000). Separating simultaneous processing of egocentric and relative positions. *Vision Research*, 40, 2557-2563.
- Butler, S., Gilchrist, I. D., Burt, D. M., Perrett, D. I., Jones, E., & Harvey, M. (2005). Are the perceptual biases found in chimeric face processing reflected in eye-movement patterns? *Neuropsychologia*. 43, 52–59.
- Dassonville, P., Bridgeman, B., Bala, J. K., Thiem, P., & Sampanes, A. (2004). The induced Roelofs effect: two visual systems or the shift of a single reference frame? *Vision Research*. 44, 603–611.
- Ferber, S., Murray L. (2005) Are perceptual judgments dissociated from motor processes? - A prism adaptation study. *Cognitive Brain Research*, 23: 453-456.
- Hasson, U., Hendler, T., Bashat, D. B., & Malach, R. (2001). Vase or Face? A Neural Correlate of Shape-Selective Grouping Processes in the Human Brain. *Journal of Cognitive Neuroscience*, 13, 744-753.
- Ito, J., Nikolaev, A. R., Luman, M., Aukes, M. F., & Nakatani, C. (2003). Perceptual switching, eye movements, and the bus paradox. 32, 681-698.
- Kerzel, D., & Gegenfurtner, K. R. (2005). Motion-induced illusory displacement reexamined: differences between perception and action? *Exp Brain Res*. 162, 191–201.
- Leopold, D. A., O'Toole, A., J., Vetter, T., & Blanz, V. (2001). Prototype-referenced shape encoding revealed by high-level aftereffects. *Nature Neuroscience* 4, 89 - 94.
- McCarley, J. S., Kramer, A. F., Digirolamo, G. J. (2003). Differential effects of the Müller-Lyer illusion on reflexive and voluntary saccades. *Journal of Vision*. 3, 751-760. <http://journalofvision.org/3/11/9/>
- Moutoussis, K., Keliris, G., Kourtzi, Z., & Logothetis, N. (2005). A binocular rivalry study of motion perception in the human brain. *Vision Research*. 45, 2231–2243.
- Nakatani, C., & Pollatsek, A. (2004). An eye movement analysis of "mental rotation" of simple scenes, *Perception and Psychophysics*. 66, 1227-1245.
- Niemann, T., Lappe, M., Büscher, A., & Hoffmann, K.-P. (1999). Ocular responses to radial optic flow and single accelerated targets in humans. *Vision Research*. 39, 1359–1371.
- Palmer, J., Huk, A. C., Shadlen, M. N. (2005). The effect of stimulus strength on the speed and accuracy of a perceptual decision. *Journal of Vision*, 5, 376-404. <http://journalofvision.org/5/5/1/>

Park, J., Schlag-Rey, M., & Schlag, J. (2003). Voluntary action expands perceived duration of its sensory consequence. *Experimental Brain Research*, 149, 527–529.

Poljac, E., & A. V. van den Berg (2003). Representation of heading direction in far and near head space. *Experimental Brain Research*, 151, 501-513.

Poljac, E., & van den Berg, A. V. (2005). Localization of the plane of regard in space. *Experimental Brain Research*, 163, 457–467.

Poljac E, Lankheet M, van den Berg AV (2005). Perceptual compensation for eye torsion. *Vision Research*, 45, 485-496.

Poljac, E., Neggers, B., & van den Berg, A.V. (2005). Collision judgement of objects approaching the head. *Exp. Brain Res*.

Proudlock, F. A., Khanna, A., & Gottlob, I. (2006). Filling-in along Horizontal and Vertical Meridians. *Investigative Ophthalmology and Visual Science*, 47, 453-460.

Ricciardelli, P., Bricolo, E., Aglioti, S.M., & Chelazzi, L. (2002) My eyes want to look where your eyes are looking: Exploring the tendency to imitate another individual's gaze. *NeuroReport*, 13, 2259-2264.

Sheth, B. R., Shimojo, S. (2004). Sound-aided recovery from and persistence against visual filling-in. *Vision Research*, 44, 1907-1917.

Shimojo, S. & Simion, C., Shimojo, E., Scheier, C. (2003). Gaze bias both reflects and influences preference. *Nature Neuroscience*, 6, 1317-1322.

SOECHTING, J. F., ENGEL, K. C., & FLANDERS, M. (2001). The Duncker Illusion and Eye–Hand Coordination. *Journal of Neurophysiology*, 85, 843-854.

Tronconso, X. G., Macknik, S. L., Martinez-Conde, S. (2005). Novel visual illusions related to Vasarely's 'nested squares' show that corner salience varies with corner angle. *Perception*, 34, 409-420.

van Dam, L. C. J., & Van Ee, R. (2005). The role of (micro)saccades and blinks in perceptual bi-stability from slant rivalry. *Vision Research*, 45, 2417-2435.

Wallis, G. (2005). A spatial explanation for synchrony biases in perceptual grouping: Consequences for the temporal-binding hypothesis. *Perception & Psychophysics*, 67, 345-353.

### **Scene/Image Perception:**

Reingold, E. M. (2002). On the perceptual specificity of memory representations. *Memory*, 10, 365-379.

Underwood, G., Crundall, D., & Hodson, K. (2005). Confirming statements about pictures of natural scenes: Evidence of the processing of gist from eye movements. *Perception*, 34, 1069-1082.

Underwood, G., Jebbett, and Roberts (2004). Inspecting pictures for information to verify a sentence; Eye movements in general encoding and in focused search. *The Quarterly Journal of Experimental Psychology*, 57A, 165-182.

Unema, P. J. A., Pannasch, S., Joos, M., & Velichkovsky, B. M. (2005). Time course of information processing during scene perception: The relationship between saccade amplitude and fixation duration. *Visual Cognition*, 12, 473 - 494.

von Wartburg, R., Ouerhani, N., Pflugshaupt, T., Nyffeler, T., Wurtz, P., Hugli, H., & Muri, R. M. (2005). The influence of colour on oculomotor behaviour during image perception. *Neuroreport*. 16, 1557-1560.

Zanker, J. M., Doyle, M., & Walker, R. (2003). Gaze stability of observers watching Op Art pictures. 32, 1037-1049.

#### **Real world/ Scene Camera application:**

Huang, P-Y., S., Lyons, L., Spezio, M. L., Castelli, F., & Adolphs, R. (2006). Where do you look when you lie? Deception, face gaze, and emotional arousal in live social interaction. Paper presented at CNS2006.

#### **Children:**

Evans, M. A., & Saint-Aubin, J. (in press). What Children are Looking at during Shared Storybook Reading: Evidence from Eye Movement Monitoring. *Psychological Science*. // Age 4-6

Li, C.-S. R., Chang, H.-L., & Lin, S.-C. (2003). Inhibition of return in children with attention deficit hyperactivity disorder. *Experimental Brain Research*. 149, 125-130. // Average age 12.2

O'Driscoll, G. A., Dépatie, L., Holahan, A. V., Savion-Lemieux, T., Barr, R. G., Jolicoeur, Cl., & Douglas, V. I. (2005). Executive Functions and Methylphenidate Response in Subtypes of Attention-Deficit/Hyperactivity Disorder. *Biological Psychiatry*, 57, 1452-1460. // Age: 11.5-14

#### **Aging:**

Betts, L. R., Taylor, C. P., Sekuler, A. B., & Bennett, P. J. (2005). Aging Reduces Center-Surround Antagonism in Visual Motion Processing. 45, 361-366.

Bojko, A., Kramer, A.F. & Peterson, M.S. (2004). Age equivalence in switch costs for prosaccade and antisaccade tasks. *Psychology and Aging*, 19, 226-234.

Colcombe, A.M., Kramer, A.F., Irwin, D.E., Peterson, M.S., Colcombe, S. & Hahn, S. (2003). Age-related effects of attentional and oculomotor capture by onsets and color singletons as a function of experience. *Acta Psychologica*, 113, 205-226.

Kelders, W. P. A., Kleinrensink, G. J., van der Geest, J. N., Feenstra, L., de Zeeuw, C. I., & Frens, M. A. (2003). Compensatory increase of the cervico-ocular reflex with age in healthy humans. *J Physiol* (2003), 553.1, pp. 311-317

Kramer, A.F., Hahn, S., Irwin, D.E. & Theeuwes, J. (1999). Attentional capture and aging: Implications for visual search performance and oculomotor control. *Psychology & Aging*, 14, 135-154.

Kramer, A.F., Hahn, S., Irwin, D.E. & Theeuwes, J. (2000). Age difference in the control of looking behavior: do you know where your eyes have been? *Psychological Science*, 11, 210-217.

Kramer, A.F., Gonzalez de Sather, J., & Cassavaugh, N. (2005). Development of Attentional and Oculomotor Control. *Developmental Psychology*, 41, 760-772.

Ryan, J. D., Shen, J., & Reingold, E. M. (in press). Modulation of Distraction in Aging. *British Journal of Psychology*.

Underwood, G., Phelps, N., Wright, C., van Loon, E., & Galpin, A. (2005). Eye fixation scanpaths of younger and older drivers in a hazard perception task. *Ophthalmic and Physiological Optics*. 25, 346-356.

### **Primate:**

Leopold, D. A., Plettenberg, H. K., & Logothetis, N. K. (2002). Visual processing in the Ketamine-anesthetized monkey: Optokinetic and blood oxygenation level-dependent responses. *Experimental Brain Research*. 143, 359-372.

Mazer, J. A., & Gallant, J. L. (2003). Goal-Related Activity in V4 during Free Viewing Visual Search: Evidence for a Ventral Stream Visual Saliency Map. *Neuron*. 40, 1241-1250.

Riecanský, I., Thiele, A., Distler, C., & Hoffmann, K.-P. (2005). Chromatic sensitivity of neurones in area MT of the anaesthetised macaque monkey compared to human motion perception. *Experimental Brain Research*. 167, 504-525.

Zoccolan, D., Cox, D. D., & DiCarlo, J. J. (2005). Multiple Object Response Normalization in Monkey Inferotemporal Cortex. *Journal of Neuroscience*, 25, 8150-8164.

### **Visual Search:**

Beintema, J. A., van Loon, E. M., & van den Berg, A. V. (2005). Manipulating saccadic decision-rate distributions in visual search. *Journal of Vision*, 5, 150-164. <http://journalofvision.org/5/3/1/>.

Bekkering, H., Neggers, S. F. W. (2002). Visual search is modulated by action intentions. *Psychological Science*, 13, 370-374.

Boot, W.R., McCarley, J.S, Kramer, A.F., & Peterson, M.S. (2004). Automatic and intentional memory processes in visual search. *Psychonomic Bulletin & Review*, 11 (5), 854-861.

Bricolo, E., Giancesini T., Fanini A., Bundesen, C., & Chelazzi, L. (2002) Serial attention mechanisms in visual search: A direct behavioral demonstration. *Journal of Cognitive Neuroscience*, 14, 980-993.

Caspi, A., Beutter, B. R., & Eckstein, M. P. (2004). The time course of visual information accrual guiding eye movement decisions. *Proceeding of National Academy of Sciences of the USA*, 101, 13086-13090.

Gilchrist, I. D., & Harvey, M. (2000). Refixation frequency and memory mechanisms in visual search. *Current Biology*, 10, 1209-1212.

Galpin, A. J., & Underwood, G. (2005). Eye movements during search and detection in comparative visual search. *Perception & Psychophysics*, 67, 1313-1331.

Greene, H. H., & Rayner, K. (2001). Eye movements and familiarity effects in visual search. *Vision Research*, 41, 3763-3773.

Greene, H. H., & Rayner, K. (2001). Eye movement control in direction-coded visual search. *Perception*, 30, 147-157.

Klein, R. M., & MacInnes, W. J. (1999). Inhibition of return is a foraging facilitator in visual search. *Psychological Science*, 10, 346-352.

McCarley, J. S., Kramer, A. F., Wickens, C. D., Vidoni, E. D., & Boot, W. R. (2004). Visual Skills in Airport-Security screening. *Psychological Science*, 15, 302-306.

Peterson, M.S., Kramer, A.F., Wang, F.R., Irwin, D.E, McCarley, J. (2001). Visual search has memory. *Psychological Science*, 12, 287-292.

Pomplun, M. (2006). Saccadic selectivity in complex visual search displays. *Vision Research*, 46.

Pomplun, M., Reingold, E. M., & Shen, J. (2001). The effects of peripheral and parafoveal cueing and masking on saccadic selectivity in a gaze-contingent window paradigm. *Vision Research*, 41, 2757-2769.

Pomplun, M., Reingold, E. M., & Shen, J. (2003). Area activation: A computational model of saccadic selectivity in visual search. *Cognitive Science*. 27, 299-312.

Shen, J., Reingold, E. M., & Pomplun, M. (2000). Distractor ratio influences patterns of eye movements during visual search. *Perception*, 29, 241-250.

Shen, J., Reingold, E. M., & Pomplun, M. (2003). Guidance of eye movements during conjunctive visual search: The distractor-ratio effect. *Canadian Journal of Experimental Psychology*. 57, 76-96.

Simoni, D. A., & Motter, B. C. (2003). Human Search Performance is a Threshold Function of Cortical Image Separation [Abstract]. *Journal of Vision*, 3(9), 228a, <http://journalofvision.org/3/9/228/>, doi:10.1167/3.9.228.

Tseng, Y.-C., & Li, R. C.-S. (2004). Oculomotor correlates of context-guided learning in visual search. *Perception & Psychophysics*. 66, 1363-1378.

Vlaskamp, B. N. S., Over, E. A. B., & Hooge, I. Th. (2005). Saccadic search performance: the effect of element spacing. *Experimental Brain Research*.

Williams, D. E., & Reingold, E. M. (2001). Preattentive guidance of eye movements during triple conjunction search tasks: The effects of feature discriminability and saccadic amplitude. *Psychonomic Bulletin & Review*, 8, 476-488.

Williams, D. E., Reingold, E. M., Moscovitch, M., & Behrmann, M. (1997). Patterns of eye movements during parallel and serial visual search tasks. *Canadian Journal of Experimental Psychology*, 51, 151-164.

### **Transsaccadic Percepton:**

Brenner, E., Meijer, W. J., & Cornelissen, F. W. (2005). Judging relative positions across saccades. *Vision Research*. 45, 1587-1602.

Gysen, V., De Graef, P., & Verfaillie, K. (2002). Detection of intrasaccadic displacements and depth rotations of moving objects. *Vision Research*. 42, 379-391.

Gysen, V., Verfaillie, K., & De Graef, P. (2002). Transsaccadic perception of translating objects: Effects of landmark objects and visual field position. *Vision Research*. 42, 1785-1796.

Gysen, V., Verfaillie, K., & De Graef, P. (2002). The effect of stimulus blanking on the detection of intrasaccadic displacements of translating objects. *Vision Research*. 42, 2021-2030.

Kerzel, D. & Ziegler, N. E. (2005). Visual short-term memory during smooth pursuit eye movements. *Journal of Experimental Psychology: Human Perception and Performance*, 31(2), 354-372.

### **Cognition and Problem Solving:**

Hodgson, T. L., Bajwa, A., Owen, A. M., & Kennard, C. (2000). The Strategic Control of Gaze Direction in the Tower of London Task. *Journal of Cognitive Neuroscience*. 12, 894-907.

Körner, C. and Gilchrist, I. D. (2004). Eye movements in a simple spatial reasoning task. *Perception*, 33, 485-494.

### **Categorization, learning, and other cognition:**

Korvorst, M., Roelofs, S., & Levelt, W. J. M. (2006) Incrementality in naming and reading complex numerals: Evidence from eyetracking. *THE QUARTERLY JOURNAL OF EXPERIMENTAL PSYCHOLOGY*. 59, 296–311.

Rehder, B., & Hoffmann, A. B. (2005). Eyetracking and selective attention in category learning. *Cognitive Psychology*. 51, 1–41.

Rehder, B., & Hoffmann, A. B. (2005). Thirty-Something Categorization Results Explained: Selective Attention, Eyetracking, and Models of Category Learning. *Journal of Experimental Psychology: Learning, Memory, and Cognition* 31, 811–829.

### **Psycholinguistics**

Altmann, G. T. M. (2004). Language-mediated eye movements in the absence of a visual world: the 'blank screen paradigm'. *Cognition* 93 (2004) B79–B87.

Altmann, G. T. M., & Kamide, Y. (1999). Incremental interpretation at verbs: restricting the domain of subsequent reference. *Cognition*. 73, 247-264.

Belke, E., & Meyer, A. S. (2002). Tracking the time course of multidimensional stimulus discrimination: Analyses of viewing patterns and processing times during 'same'-different' decisions. *European Journal of Cognitive Psychology*. 14, 237-266.

Belke, E, Meyer AS, Damian MF. (2005). Refractory effects in picture naming as assessed in a semantic blocking paradigm. *THE QUARTERLY JOURNAL OF EXPERIMENTAL PSYCHOLOGY*. 58A, 667-692.

Barr, D. J., & Keysar, B. (2002). Anchoring comprehension in linguistic precedents. *Journal of Memory and Language*. 46, 391-418.

Bock, K., & Irwin, D. E., Davidson, D. J., & Levelt, W.J.M. (2003). Minding the clock. *Journal of Memory and Language*. 48, 653–685.

- Dahan, D., & Tanenhaus, M. K. (2005). Looking at the Rope When Looking for the Snake: Conceptually Mediated Eye Movements During Spoken-Word Recognition. *Psychonomic Bulletin & Review*. 12, 453-459.
- Dahan, D., & Tanenhaus, M. K. (2004). Continuous Mapping From Sound to Meaning in Spoken-Language Comprehension: Immediate Effects of Verb-Based Thematic Constraints. *Journal of Experimental Psychology: Learning, Memory, & Cognition*. 30, 498-513.
- Desmet, T., & Gibson, E. (2003). Disambiguation preferences and corpus frequencies in noun phrase conjunction. *Journal of Memory and Language*. 49, 353–374.
- Dussias, P. E. (2004). Parsing a first language like a second: The erosion of L1 parsing strategies in Spanish-English Bilinguals. *International Journal of Bilingualism*, 8, 355-371.
- Griffin, Z. M., & Bock, K. (2000). What the eyes say about speaking. *Psychological Science*, 11, 274-279.
- Huang, X., Cai, Z. & Chen, L. (2004). The Effect of Visual Angle on the Recognition of Chinese Characters. *Psychological Science (China)*. 27, 770-773.
- Huetting, F., & Altmann, G. T. M., (2005). Word meaning and the control of eye fixation: semantic competitor effects and the visualworld paradigm. *Cognition*.96, B23-B32.
- Huetting, F., Quinlan, P. T., McDonald, S. A., & Altmann, G. T. M. (2006). Models of high-dimensional semantic space predict language-mediated eye movements in the visual world. *Acta Psychologica*, 121, 65-80.
- Ju, M., & Luce, P. A. (2004). Falling on Sensitive Ears: Constraints on Bilingual Lexical Activation. *Psychological Science*. 15,314-318.
- Kamide, Y., Scheepers, C., & Altmann, G. T. M. (2003). Integration of Syntactic and Semantic Information in Predictive Processing: Cross-Linguistic Evidence from German and English. *Journal of Psycholinguistic Research*. 32, 37-55.
- Kamide, Y., Altmann, G. T. M., Haywood, S. L. (2003). The time-course of prediction in incremental sentence processing: Evidence from anticipatory eye movements. *Journal of Memory and Language*. 49, 133–156.
- Knoeferle, P., & Crocker, M. (in press). The coordinated interplay of scene, utterance, and world knowledge: evidence from eye tracking. *Cognitive Science*.



Knoeferle, P., Crocker, M., Pickering, M., & Scheepers, C. (2005). The influence of the immediate visual context on incremental thematic role-assignment: evidence from eye-movements in depicted events. *Cognition*. 95, 95-127.

Lansing C.R., McConkie G.W. (2003). Word identification and eye fixation locations in visual and visual-plus-auditory presentations of spoken sentences. *Perception & Psychophysics*. 65, 536-552.

Meyer, A. S., Sleiderink, A. M., (1998). Viewing and naming objects: eye movements during noun phrase production. *Cognition*. 66, B25-B33.

Meyer, A. S., van der Meulen, F. F., & Brooks, A. (2004). Eye movements during speech planning: Talking about present and remembered objects. *Visual Cognition*, 11, 553 - 576.

Meyer, A. S., Roelofs, A., & Levelt, W. J.M. (2003). Word length effects in object naming: The role of a response criterion. *Journal of Memory and Language*. 48, 131–147.

McMurray, B., Tanenhaus, M. K., & Aslin, R. N. (2002). Gradient effects of within-category phonetic variation on lexical access. *Cognition*. 86, B33-B42.

Magnuson, J. S., Tanenhaus, M. K., Aslin, R. N., & Dahan, D. (2003). The Time Course of Spoken Word Learning and Recognition: Studies With Artificial Lexicons. *Journal of Experimental Psychology: General*. 132, 202-227.

Salverda, A.P., Dahan, D., & McQueen, J. M. (2003). The role of prosodic boundaries in the resolution of lexical embedding in speech comprehension. *Cognition*. 90, 51-89.

van der Meulen, F. F., Meyer, A. S., Levelt, W. J. M. (2001). Eye movements during the production of nouns and pronouns. *Memory & Cognition*, 29, 512-521.

Myung, J.-Y., Blumstein, S. E., & Sedivy, J. C. (2006). Playing on the typewriter, typing on the piano: manipulation knowledge of objects. *Cognition*. 98, 223-243.

## **Reading**

Bertram, R., Pollatsek, A, & Hyönä, J. (2004). Morphological parsing and the use of segmentation cues in reading Finnish compounds. *Journal of Memory and Language*, 51, 325-345.

Bertram, R., & Hyönä, J. (2003). The length of a complex word modifies the role of morphological structure: Evidence from eye movements when reading short and long Finnish compounds. *Journal of Memory & Language*. 48, 615-634

Chen, Y., Shi, R., & Tian, H. (2004). Optimal Landing Position in Reading Chinese Idioms. *Psychological Science (China)*. 27, 278-280.

Daneman, M., & Reingold, E. M. (2000). Do readers use phonological codes to activate word meanings? Evidence from eye movements. In A. Kennedy, R. Radach, D. Heller & J. Pynte (Eds), *Reading as a perceptual process* (pp. 447-473). Elsevier: Amsterdam.

Desmet, T., de Baecke, C., & Brysbaert, M. (2002). The influence of referential discourse context on modifier attachment in Dutch. *Memory & Cognition*, 30, 150-157.

Deutsch, A., & Rayner, K. (1999). Initial Fixation Location Effects in Reading Hebrew Words. *Language and Cognitive Processes*, 14, 393-421.

Deutsch, A., & Bentin, S. (2001). Syntactic and semantic factors in processing gender agreement in Hebrew: Evidence from ERPs and Eye Movements. *Journal of Memory and Language*, 45, 200-224.

Deutsch, A., Frost, R., Pelleg, S., Pollatsek, A., & Rayner, K. (2003). Early morphological effects in reading: Evidence from parafoveal preview benefit in Hebrew. *Psychonomic Bulletin & Review*, 10, 415-422.

Deutsch, A., & Frost, R., Pollatsek, A., & Rayner, K. (2000). Early morphological effects in word recognition in Hebrew: Evidence from parafoveal preview benefit. *LANGUAGE AND COGNITIVE PROCESSES*, 2000, 15, 487-506.

Drieghe, D., Brysbaert, M., Desmet, T. (2005). Parafoveal-on-foveal effects on eye movements in text reading: Does an extra space make a difference? *Vision Research*, 45, 1693-1706.

Drieghe, D., Brysbaert, M., Desmet, T., & De Baecke, C. (2004). Word skipping in Reading: On the interplay of linguistic and visual factors. *European Journal of Cognitive Psychology*, 16, 79-103.

Feng, G., Miller, K., Shu, H., & Zhang, H. (2001). Rowed to Recovery The Use of Phonological and Orthographic Information in Reading Chinese and English. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 27, 1079-1100.

Hyönä, J., & Bertram, R. (2004). Do frequency characteristics of non-fixated words influence the processing of non-fixated words during reading? *European Journal of Cognitive Psychology*, 16, 104-127.

Hyönä, J., & Lorch, R.F., Jr. (2004). Effects of topic headings on text processing: Evidence from adult readers' eye fixation patterns. *Learning and Instruction*, 14, 131-152.

- Hyönä, J., & Häikiö, T. (2005). Is emotional content obtained from parafoveal words during reading? An eye movement analysis. *Scandinavian Journal of Psychology*, 46, 475-483.
- Hyönä, J., & Nurminen, A.M. (2006). Do adult readers know how they read? Evidence from eye movement patterns and verbal reports. *British Journal of Psychology*, 97, 31-50.
- Hyönä, J., Lorch, R. F Jr., Kaakinen, J. K. (2002). Individual differences in reading to summarize expository text: Evidence from eye fixation patterns. *Journal of Educational Psychology*. 94, 44-55.
- Hyönä, J., & Vainio, S. (2001). Reading morphologically complex clause structures in Finnish. *European Journal of Cognitive Psychology*. 13, 451-474.
- Inhoff, A. W., Eiter, B. M., Radach, R. (2005). Time Course of Linguistic Information Extraction From Consecutive Words During Eye Fixations in Reading. *Journal of Experimental Psychology: Human Perception and Performance*. 31, 979-995.
- Järvikivi, J., van Gompel, R.P.G., Hyönä, J., & Bertram, R. (2005). Ambiguous pronoun resolution: Contrasting the first-mention and subject-preference accounts. *Psychological Science*, 16, 260-264.
- Kaakinen, J.K., & Hyönä, J. (2005). Perspective effects on expository text comprehension: Evidence from think-aloud protocols, eyetracking, and recalls. *Discourse Processes*, 40, 239-257.
- Kaakinen, J. K.; Hyönä, J.; Keenan, J. M. (2003): How prior knowledge, WMC, and relevance of information affect eye fixations in expository text. *Journal of Experimental Psychology: Learning, Memory, & Cognition*. 29, 447-457.
- Kliegl, R., Nuthmann, A., & Engbert, R. (2006). Tracking the mind during reading: The influence of past, present, and future words on fixation durations. *Journal of Experimental Psychology: General*, 135, 12-35.
- Kliegl, R., Grabner, E., Rolfs, M., & Engbert, R. (2004). Length, frequency, and predictability effects of words on eye movements in reading. *European Journal of Cognitive Psychology*, 16, 262-284.
- Kliegl, R., & Engbert, R. (2005). Fixation durations before word skipping in reading. *Psychonomic Bulletin & Review*, 12, 132-138.
- McDonald, S. (2006). Effects of number-of-letters on eye movements during reading are independent from effects of spatial word length. *Visual Cognition*, 13, 89-98.

- Nuthmann, A., Engbert, R., & Kliegl, R. (2005). Mislocated fixations during reading and the inverted optimal viewing position effect. *Vision Research*, 45, 2201-2217.
- Pollatsek, A., & Hyönä, J. (2005). The role of semantic transparency in the processing of Finnish compound words. *Language and Cognitive Processes*, 20, 261-290.
- Pollatsek, A. Hyönä, J., & Bertram, R. (2000). The role of morphological constituents in reading Finnish compound words. *Journal of Experimental Psychology: Human Perception and Performance*, 26, 820-833.
- Proudlock, F. A., Shekhar, H., & Gottlob, I. (2003). Coordination of Eye and Head Movements during Reading. *Investigative Ophthalmology and Visual Science*. 44,2991-2998.
- Radach, R., Inhoff, A., Heller, D. (2004). Orthographic regularity gradually modulates saccade amplitudes in reading. *European Journal of Cognitive Psychology*. 16, 27-51.
- Rayner, K., Johnson, R. L. (2005). Letter-by-letter acquired dyslexia is due to the serial encoding of letters. *Psychological Science*. 16, 530-534.
- Tsai, J.-L., Lee, C.-Y., Tzeng, O. J. L., Hung, D. L., & Yen, M.-S. (2004). Use of phonological codes for Chinese characters: Evidence from processing of parafoveal preview when reading sentences. *Brain and Language*. 91, 235–244.
- Tsai, J.-L., & McConkie, G. W. (2003). Where do Chinese readers send their eyes. In J. Hyönä, R. Radach & H. Deubel (Eds), *The Mind's Eyes: Cognitive and Applied Aspects of Eye Movement Research* (pp. 159-176). Amsterdam: Elsevier Science Publishers.
- Upton, N. J., Hodgson, T. L., Plant, G. T., Wise, R. J. S., & Leff, A. P. (2003). "Bottom-up" and "top-down" effects on reading saccades: a case study. *Journal of Neurology Neurosurgery and Psychiatry*. 74, 1423-1428
- Vainio, S., Hyönä, J., & Pajunen, A. (2003). Facilitatory and inhibitory effects of grammatical agreement: Evidence from readers' eye fixation patterns. *Brain and Language*, 85, 197-202.
- Yang, S., McConkie, G. W. (2001). Eye movements during reading: A theory of saccade initiation times. *Vision Research*. 41, 3567-3585.
- Yang, S.-N.; McConkie, G. W. (2004) Saccade generation during reading: Are words necessary? *European Journal of Cognitive Psychology*. 16, 226 - 261.

Weber, A., Grice, M., & Crocker, M. W. (2005). The role of prosody in the interpretation of structural ambiguities: A study of anticipatory eye movements. *Cognition*.

### **Expertise:**

Charness, N., Reingold, E. M., Pomplun, M., Stampe, D. M. (2002). The perceptual aspect of skilled performance in chess: Evidence from eye movements. *Memory & Cognition*. 29, 1146-1152.

Gilman, E., & Underwood, G. (2003). Restricting the field of view to investigate the perceptual spans of pianists. *Visual Cognition*. 10, 201-232.

Gilman, E., & Underwood, G. (2003). The perceptual span during music reading. In J. Hyönä, R. Radach & H. Deubel (Eds), *The Mind's Eyes: Cognitive and Applied Aspects of Eye Movement Research* (pp. 175-191). Amsterdam: Elsevier Science Publishers.

Reingold, E. M., Charness, N., Pomplun, M., & Stampe, D. M. (2001). Visual span in expert chess players: Evidence from eye movements. *Psychological Science*. 12, 48-55.

### **Advertisement:**

Radach, R., Lemmer, S., Vorstius, C., Heller, D., & Radach, K. (2003). Eye movements in the processing of print advertisements. In J. Hyönä, R. Radach & H. Deubel (Eds), *The Mind's Eyes: Cognitive and Applied Aspects of Eye Movement Research* (pp. 609-632). Amsterdam: Elsevier Science Publishers.

Rayner, K., Rotello, C. M., Stewart, A. J., Keir, J., & Duffy, S. A. (2001). Integrating text and pictorial information: Eye movements when looking at print advertisements. *Journal of Experimental Psychology: Applied*. 7, 219-226.

Witkowski, M., Neville, B., & Pitt, J. (2005). Agent mediated retailing in the connected local community. *Interacting with Computers* 15,5-32.

### **Driving and visual field evaluation:**

Coeckelbergh, T. R. M., Cornelissen, F. W., Brouwer, W. H., & Kooijman, A. C. (2002). The effect of visual field defects on eye movements and practical fitness to drive. *Vision Research*. 42, 669-677.

Crundall, D., Chapman, P., Phelps, N., & Underwood, G. (2003). Eye movements and hazard perception in police pursuit and emergency response driving. *Journal of Experimental Psychology: Applied*. 9, 163-174.

Crundall, D., Chapman, P., France, E., Underwood, G., & Phelps, N. (2005). What attracts attention during police pursuit driving? *Applied Cognitive Psychology*, 19, 409-420.

Underwood, G., Phelps, N., Wright, C., van Loon, E., & Galpin, A. (2005). Eye fixation scanpaths of younger and older drivers in a hazard perception task. *Ophthalmic and Physiological Optics*. 25, 346-356.

### **Computer Applications:**

Collin, C. A., & Chauduri, A. (2002). Using MATLAB with the Psychophysics Toolbox to present the heterochromatic fusion nystagmus stimulus. *Behavior Research Methods, Instruments, & Computers*. 34, 500-508.

Cornelissen, F. W., Peters, E. M., & Palmer, J. (2002). The EyeLink Toolbox: Eye tracking with MATLAB and the Psychophysics Toolbox. *Behavior Research Methods, Instruments, & Computers*. 34, 613-617.

Hyrskykari, A. (2005). Utilizing eye movements: Overcoming inaccuracy while tracking the focus of attention during reading. *Computers in Human Behavior*. 22. 657-671.

Inhoff, A. W., Connine, C., & Radach, R. (2002). A contingent speech technique in eye movement research on reading. *Behavior Research Methods, Instruments, & Computers*. 34, 471 – 480.

### **System Comparison:**

Frens, M. A., & van der Geest, J. N. (2002). Scleral search coils influence saccade dynamics. *Journal of Neurophysiology*. 88, 692-698.

Smeets, J. B. J., & Hooge, I. T. C. (2003). Nature of variability in saccades. *Journal of Neurophysiology*, 12-20.

van der Geest, J. N., & Frens, M. A. (2002). Recording eye movements with video-oculography and scleral search coils: a direct comparison of two methods. *Journal of Neuroscience Methods*. 114, 185-195.