

Publication Listing for David L. Sheinberg

a. Journal Articles

Anderson B, Mruczek REB, Kawasaki K, Sheinberg DL (in revision) Effects of familiarity on neural activity in monkey inferior temporal lobe, *Cerebral Cortex*.

Singer J, Sheinberg DL (in revision) A method for the real-time rendering of formless dot field structure-from-motion stimuli, *J Vision*.

Anderson B, Sheinberg DL (in press). Effects of temporal context and temporal expectancy on neural activity in inferior temporal cortex. *Neuropsychologia*.

Mruczek REB, Sheinberg DL (2007). Context familiarity enhances target processing by inferior temporal cortex neurons, *J Neurosci*, 27, 8533-8545.

Peissig JJ, Singer J, Kawasaki K, Sheinberg DL (2007). Effects of long-term object familiarity on event-related potentials in the monkey. *Cerebral Cortex*, 17, 1323-1334.

Mruczek REB, Sheinberg (2007). Activity of inferior temporal cortical neurons predicts recognition choice behavior and recognition time during visual search. *Journal of Neuroscience*, 27, 2825-2836.

Anderson B, Sanderson MI, Sheinberg DL (2007). Joint decoding of visual stimuli by IT neurons' spike counts is not improved by simultaneous recording. *Exp Brain Res*, 176, 1-11.

Sheinberg DL, Peissig JJ, Kawasaki K, Mruczek REB (2006). Initial saccades predict manual recognition choices in the monkey. *Vision Res*, 46, 3812-3822.

Scott LS, Tanaka JW, Sheinberg DL, Curran T (2006). A reevaluation of the electrophysiological correlates of expert object processing, *J Cog Neurosci*, 18, 1453-1465.

Anderson B, Harrison MT & Sheinberg DL (2006). A Multielectrode Study of IT in the Monkey: Effects of Grouping on Spike Rates and Synchrony, *NeuroReport*, 17, 407-411.

Anderson B, Peissig JJ, Singer J & Sheinberg DL (2006). XOR style tasks for testing visual object processing in monkeys. *Vision Research*, 46, 1804-1815.

Singer J & Sheinberg DL (2006). Holistic processing unites face parts across time. *Vision Research*, 46, 1838-1847.

Amarasingham A, Chen TL, Geman S, Harrison MT & Sheinberg DL (2006). Spike count reliability and the Poisson hypothesis. *Journal of Neuroscience*, 26, 801-809.

Mruczek REB & Sheinberg DL (2005). Distractor familiarity leads to more efficient search for complex stimuli. *Perception and Psychophysics*, 67, 1016-1031.

Tanaka J, Curran T, Sheinberg DL (2005). The training and transfer of real-world, perceptual expertise. *Psychological Science*, 16, 145-151.

- Tse PU, Sheinberg, DL, Logothetis NK (2004). The distribution of microsaccade directions need not reveal the location of attention. *Psychological Science*, 15, 708-710.
- Tse PU, Sheinberg DL, Logothetis NK (2003) Attentional enhancement opposite a peripheral flash revealed by change blindness. *Psychological Science*, 14, 91-99.
- Tse PU, Sheinberg DL, Logothetis NK (2002) Fixational eye movements are not affected by abrupt onsets in the periphery. *Vision Research*, 42, 1663-1669.
- Sheinberg DL, Logothetis NK (2001) Noticing familiar objects in real world scenes: The role of temporal cortical neurons in natural vision, *Journal of Neuroscience*, 21, 1340-1350.
- Sheinberg DL, Logothetis NK (1997) The role of temporal cortical areas in perceptual organization, *Proceedings of the National Academy of Sciences*, 94, 3408-3413.
- [Reprinted in: Yantis, Steven (Ed) (2000) *Visual perception: Essential readings. Key readings in cognition.* (pp. 393-401). Philadelphia, PA, US: Psychology Press/Taylor & Francis.]
- Zelinsky GJ, Sheinberg, DL (1997) Eye movements during parallel/serial visual search, *Journal of Experimental Psychology [Human Perception and Performance]*, 25, 244-262.
- Logothetis NK, Sheinberg DL (1996) Visual object recognition. *Annual Review of Neuroscience*, 19, 577-621.
- Logothetis NK, Leopold DA, Sheinberg DL (1996) What is rivaling during binocular rivalry? *Nature*, 380, 621-624.
- Blake A, Bulthoff, HH, Sheinberg, DL (1993) Shape from texture: Ideal observers and human psychophysics. *Vision Research*, 33, 1723-1737.

b. Book Chapters

- Woloszyn L, Sheinberg DL (in press). Shape Representation in Inferotemporal Cortex. In *The New Encyclopedia of Neuroscience*, Elsevier.
- Sheinberg DL, Tarr MJ (in press). Objects of Expertise. In I Gauthier and D Bub (Eds.), *Perceptual Expertise*.
- Anderson JA, Allopenna P, Guralnik GS, Sheinberg DL, Santini, Jr. JA, Dimitriadis S, Machta BB, and Merritt B (in press). Programming a Parallel Computer: The Ersatz Brain Project. In W Duch, J Mandzuik, and JM Zurada (Eds.), *Challenges to Computational Intelligence*. Springer: Berlin.
- Logothetis, N. K., Leopold, D. A., & Sheinberg, D. L. (2003). Neural mechanisms of perceptual organization. In N. Osaka (Ed.) *Neural basis of consciousness. Advances in Consciousness Research: Vol. 49* (pp. 87-103). Amsterdam, Netherlands: John Benjamins Publishing Company.

- Sheinberg DL, Logothetis NK (2002) Perceptual Learning and the Development of Complex Visual Representations in Temporal Cortical Neurons. In Fahle M, Poggio T, (Eds.) *Perceptual Learning*, Cambridge, MA: MIT Press, 95-124.
- Sheinberg DL, Logothetis NK (1996) Recognition and representation of visual objects in primates: Psychophysics and physiology. In Llinas R, Churchland P (Eds.) *The Mind Brain Continuum*, Cambridge, MA: MIT Press, 147-172.
- Blake A, Bühlhoff HH, Sheinberg DL (1996) Shape from texture: Ideal observers and human psychophysics. In Knill D, Richards W (Eds.) *Perception as Bayesian Inference*, Cambridge, MA: MIT Press, 287-322.
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- Sheinberg DL, Zelinsky GJ (1993) A cortico-collicular model of saccadic target selection. In Rensbergen J, Devijver V, d'Ydewalle G (Eds.) *Perception and Cognition*, Amsterdam, Elsevier Science, 333-348.

c. Conference Proceedings

Sheinberg, D. (2003). The most reliable period for temporal cortical neurons. *Journal of Vision*, 3(9), 154a, <http://journalofvision.org/3/9/154/>, doi:10.1167/3.9.154.

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d. Abstracts

Woloszyn L, Sheinberg DL (2007) Candidate neural substrates of visual object working memory, Society for Neuroscience Abstracts.

Singer J, Sheinberg DL (2007) Dorsal and ventral contributions to action selectivity in temporal cortex neurons, Society for Neuroscience Abstracts.

Singer J, Sheinberg DL (2007) Joint object and motion selectivity in the temporal cortex, Vision Sciences Society.

Twedt E, Sheinberg DL, Gauthier I (2007) Comparing Thomson's Thatcher effect with faces and non-face objects, Vision Sciences Society.

Sheinberg DL, Anderson B (2006) Now you see it, now you don't: behavioral and physiological effects of temporal cueing in the monkey, Society for Neuroscience Abstracts.

Mruczek REB, Sheinberg DL (2006) Effects of experience on receptive field size in monkey inferior temporal cortex, Society for Neuroscience Abstracts.

Scott L, Tanaka J, Sheinberg DL, Curran T (2006) The contributions of category experience and learning to perceptual expertise: A behavioral and neurophysiological study, Vision Sciences Society.

Mruczek REB, Sheinberg DL (2006) Recognition choice behavior is predicted by activity in inferior temporal cortex, Vision Sciences Society.

Anderson B, Harrison M, Sheinberg DL (2006) Neuronal Synchrony and Visual Grouping: A Multi-electrode Study in Monkey IT, Vision Sciences Society.

Woloszyn L, Sheinberg DL (2006) No Lateral-Vertical Asymmetry in the Processing of Mirror Images in the Monkey, Vision Sciences Society.

Kawasaki K, Sheinberg DL (2006) Temporal integration of visually and electrically evoked activity in monkey inferior temporal cortex during visual discrimination learning, Vision Sciences Society.

Sheinberg DL, Mruczek REB, Anderson B, Kawasaki K (2006) Effects of Long Term Image Familiarity in Monkey Temporal Cortex, Vision Sciences Society.

Scott LS, Tanaka JW, Sheinberg DL, Curran T (2005) Becoming an expert: Tracing the acquisition of perceptual expertise with ERPs, Society for Neuroscience Abstracts.

Kawasaki K, Sheinberg DL (2005) Behavioral and physiological effects of backward masking and microstimulation in inferior temporal cortex of the monkey, Vision Sciences Society, Sarasota, Florida.

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Sheinberg DL, Kawasaki K (2004) Effects of microstimulation on visual recognition in the monkey, Society for Neuroscience Abstracts.

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Kawasaki K, Peissig JJ, Sheinberg DL (2003) Changes in visual evoked potentials during visual discrimination learning. Society for Neuroscience Abstracts.

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Mruczek RE, Sheinberg DL (2002). The role of distractor familiarity in visual search of complex displays. Society for Neuroscience Abstracts.

Tse PU, Sheinberg DL, Logothetis NK (2001). Spatial attention elongates both toward and away from an exogenous flash. Vision Sciences Society.

Cate A, Sheinberg DL (2001) Different visual processing of object and scenes. Vision Sciences Society, 1, 113.

Sheinberg DL, Logothetis NK (2000) The “other” cells in inferotemporal cortex. Society for Neuroscience Abstracts, 25.

Sheinberg DL, Logothetis NK (1999) Activity of temporal cortical neurons during visual exploration. Society for Neuroscience Abstracts, 24, 530.

Sheinberg DL, Logothetis NK (1998) Implicit memory guides visual exploration in the monkey. Society for Neuroscience Abstracts, 23, 564.

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Zelinsky GJ, Sheinberg DL, Bühlhoff HH (1991). Saccades reflect a serial / parallel search dichotomy. *Investigative Ophthalmology and Visual Science*, 33, 1153.

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Sheinberg DL, Bühlhoff HH Blake A (1990). Shape from texture. *Perception*, 19, A87b.