



CENTRE FOR NEUROSCIENCE STUDIES

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BRIAN JOSEPH WHITE CURRICULUM VITAE

BIOGRAPHICAL

- **2006-present** Postdoctoral Fellow at Centre for Neuroscience Studies, Queen's, Kingston, ON.
- **2006** PhD in Visuomotor Neuroscience, Justus Liebig University, Giessen, Germany.
- **2002** MA in Experimental Psychology, Wilfrid Laurier University, Waterloo, ON.
- **2000** BA (Hons) in Psychology, Memorial University of Newfoundland (SWGC).

RESEARCH

Visual determinants of saccadic eye movements, visuomotor pathways, superior colliculus, color, saccade target selection, interactions between bottom-up and top-down processes.

PUBLICATIONS

Journal Articles

- **White BJ**, Boehnke SE, Marino RA, Itti L, Munoz DP (2009) Color-related signals in the primate superior colliculus. *Journal of Neuroscience*, 29:12159-12166.
- **White BJ**, Stritzke M, Gegenfurtner KR (2008) Saccadic facilitation in natural backgrounds. *Current Biology*, 18:124-128.
- **White BJ**, Kerzel D, Gegenfurtner KR (2006b) Visually guided movements to color targets. *Experimental Brain Research*, 175:110-126.
- **White BJ**, Kerzel D, Gegenfurtner KR (2006a) The spatio-temporal tuning of the mechanisms in the control of saccadic eye movements. *Vision Research*, 46:3886-3897.
- **White BJ**, Gegenfurtner KR, Kerzel D (2005) Effects of structured non-target stimuli on saccadic latency. *Journal of Neurophysiology*, 93:3214-3223.

Book Chapters

- **White BJ**, Munoz DP. (*Under Review*) The Superior Colliculus, In *Oxford Handbook on Eye Movements*, Eds. S.P. Liversedge, I.D. Gilchrist, S. Everling, Oxford University Press.

Conference Proceedings (Talks)*

- **White, BJ** and Munoz, D.P. (2009). Independence of luminance and color information during saccade target selection in the primate superior colliculus. *39th Annual Society for Neuroscience Meeting, Chicago, IL.*

- ***White, BJ**, Marino, R.A., Boehnke, S.E., Itti, L., Theeuwes, J., Munoz, D.P. (2009). Color signals in the primate superior colliculus. *9th Annual Vision Science Society Meeting, Naples, FL. Journal of Vision*, 8(17):5, 5a.
- ***White, BJ** and Munoz, D.P. (2009). Color signals in the primate superior colliculus. Meeting of the *Canadian Physiological Society, Mont-Sainte-Anne, Quebec, Canada*.
- ***White, BJ** and Munoz, D.P. (2008). Color signals in the primate superior colliculus. *38th Annual Society for Neuroscience Meeting, Washington, DC*.
- **White, BJ**, Marino, R.A., Boehnke, S.E., Itti, L., Theeuwes, J., Munoz, D.P. (2007). Interactions between endogenous and exogenous neural activity in the superior colliculus. *37th Annual Society for Neuroscience Meeting, San Diego, CA*.
- ***White, BJ**, Boehnke, S., Marino, R., Talsma, D., Itti, L., Theeuwes, J., & Munoz, D. (2007). Competition between exogenous and endogenous signals revealed by saccade latency and saccade curvature in the monkey. *7th Annual Vision Science Society Meeting, Sarasota, FL. Journal of Vision*, 7(9):321, 321a.
- ***White, BJ**, Kerzel, D., & Gegenfurtner, K. R. (2006). Facilitation of saccade latency with natural scene backgrounds. *6th Annual Vision Science Society Meeting, Sarasota, FL. Journal of Vision*, 6(6):92, 92a.
- ***White, BJ**, Kerzel, D., & Gegenfurtner, K. R. (2006). Saccadic facilitation with natural backgrounds. *36th Annual Society for Neuroscience Meeting, Atlanta, GA*.
- **White, BJ**, Kerzel, D. & Gegenfurtner, K.R. (2006). Saccadic facilitation with natural scene backgrounds. *9th Tübingen Perception Conference, Tübingen, Germany*.
- **White, B. J.**, Gegenfurtner, K. R., & Kerzel, D. (2005). Effects of structured backgrounds on the latency of saccadic eye movements. *5th Annual Vision Science Society Meeting, Sarasota, FL. Journal of Vision*, 5(8):585, 585a.
- **White, BJ**, Kerzel, D. & Gegenfurtner, K.R. (2005) Interactions between target and background properties on the latency of saccadic eye movements. *International Workshop on Bioinspired Information Processing, Lübeck, Germany*.
- **White, BJ**, Gegenfurtner, K. R. & Kerzel, D. (2005). Effects of structured backgrounds on the latency of saccadic eye movements. *13th European Conference on Eye Movements, Bern, Switzerland*.

INVITED TALKS

- *National Institute for Physiological Sciences, Osaka, Japan, April 2009. (Tadashi Isa)*
- *8th annual Optical Society of America Vision Meeting, Center for Visual Science, University of Rochester, Oct 2008. (Symposium on color and motion processing)*
- *Vrije University Dept. of Cognitive Psychology, Amsterdam, July 2008. (Jan Theeuwes)*
- *Vrije University, Faculty of Human Movement Sciences, Amsterdam, July 2008. (Eli Brenner)*
- *York University Department of Psychology, Toronto, ON. Sept. 2005 (Laurence Harris)*
- *Queen's Centre for Neuroscience Studies, Kingston, ON. Oct. 2005 (Douglas Munoz)*

TEACHING

Thesis Supervision

- **2006-2007** - Joshua Hwang, "Effect of visual orientation-tuning on attentional capture and inhibition of return", Centre for Neuroscience Studies, Queen's.
- **2004-2005** - Daniela Wimmer, "A comparison of eye and hand movements to chromatic versus luminance stimuli", Psychology, Justus Liebig University, Germany.

Lectures

- **2009** (fall) - Neuroanatomy of Visual Pathways, Meds Phase 2B, Ophthalmology Block, Queen's.
- **2007** (winter) - Sensorimotor Neuroscience, Section on vision and eye movements (LISC 426/826). Physiology, Queen's.
- **2005** (winter) - Graduate-level course in Human Sensorimotor Control. Psychology, Justus Liebig University, Germany.
- **2004** (winter) - Graduate-level course in Visual Neuroscience. Psychology, Justus Liebig University, Germany.
- **2004** (fall) - Graduate course in Theories of Human Emotion. Psychology, Justus Liebig University, Germany.
- **2001** (winter) - Dec 2001 Methods in Visual Psychophysics. Psychology, Laurier, Waterloo, Ontario.

PROGRAMMING/TECHNICAL

- MATLAB
- C (Graphics, SDL library, open GL)
- UNIX-based real-time neural data acquisition software (REX; Hays et al. 1982)
- Plexon (Neurotechnology for single- and multi-unit recording and analyses)
- Eyelink (eye-tracking system, SR-research)
- Surgical experience (non-human primates)
- Second language: German

AWARDS

- Gold Medal for Graduate Level Thesis, Faculty of Science (Spring 2002), Wilfrid Laurier University, Ontario.
- The John and Dorothy Snow Memorial Prize for highest grades (Spring 2000), SWGC, Memorial University of Newfoundland.