

Centre for Vision Research 2004/05

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Background and Mandate

Our mandate is to pursue interdisciplinary research and training in the broadly-defined visual sciences and their applications. The sense of vision does not stand alone: it is the primary input not only for understanding the world around us, but also for guiding action in the world, for determining interaction with the world and inherently integrates with the other sensory processes. The CVR provides a simple and effective infrastructure that provides members with maximal freedom in pursuing their research programmes while encouraging collaboration among members and across disciplines.

Organizational Structure and Staffing

Director
Associate Director
CVR Steering Committee (see below)
Administrative Assistant
Systems Administrator
Technical Staff

CVR Steering Committee 2004/05

Director	John K. Tsotsos
Associate Director	Doug Crawford
Academic Coordinator	Hugh Wilson
Facilities Coordinator	Rob Allison
Seminar Coordinator	Laurence Harris
Ex-officio	Ian P. Howard
Member	James Elder
Member	Richard Wildes
Member	Sven Dickinson (rep. for adjuncts)

York University Faculty Affiliated with the Centre (2004-2005)

Scott Adler	Associate Professor of Psychology Interests: development of eye movement control, visual selective attention, object recognition, and visual expectations
Rob Allison	Associate Professor of Computer Science Interests: stereoscopic vision, perceptual issues in virtual environments, eye movements
Doug Crawford	Professor of Psychology, Biology, and Kinesiology & Health Sciences Canada Research Chair in Visual-Motor Neuroscience Associate Director, Centre for Vision Research Interests: three-dimensional eye and head movements, eye-hand coordination, Trans-saccadic perceptual integration, modeling, neurophysiology
James Elder	Associate Professor of Psychology, Computer Science, and Mathematics Project Leader, Human Performance Laboratory Interests: human and computer vision
Keith Grasse	Associate Professor of Psychology and Biology (currently on leave). Interests: neurophysiology of the visual system, eye movements, auditory neurophysiology, neuropharmacology
Laurence Harris	Professor of Psychology and Biology Interests: perception and coding of space and self motion
Denise Henriques	Assistant professor Kinesiology and Health Science (KAHS), and Psychology Interests: motor learning, multisensory integration, visuomotor control, eye-hand coordination
Ian Howard	Distinguished Research Professor of Psychology and Biology Interests: space perception, eye movements, visual-vestibular interactions
Richard Hornsey	Associate Professor of Computer Science and Physics Interests: integrated electronic sensors, biologically inspired image sensors, low vision enhancement systems, sensors for space applications
Michael Jenkin	Professor of Computer Science Interests: computer vision, mobile robotics, immersive visual displays
Hiroshi Ono	Distinguished Research Professor of Psychology Interests: visual perception of direction and distance, eye movement

Members cont'd.

- David Regan CAE/NSERC Industrial Research Professor.
Distinguished Research Professor of Psychology and Biology, York University
Professor of Ophthalmology and Medicine, University of Toronto
Fellow of the Royal Society of Canada
Foreign Fellow of the Royal Netherlands Academy of Science
Interests: psychophysics of spatial vision, motion, stereopsis, colour vision, vision aviation, visually evoked magnetic and electrical brain activity, visual disorders, auditory psychophysics
- Josée Rivest Associate Professor of Psychology, Glendon College, York University
Department of Psychology of the Baycrest Centre for Geriatric Care
Interests: neuropsychology, face and object recognition, rehabilitation of visual neglect
- Lauren Sergio Associate Professor of Kinesiology and Health Sciences
Interests: neural mechanisms of visually guided reaching in parietal and precentral cortex
- Minas Spetsakis Associate Professor of Computer Science
Interests: computer vision and robotics
- Paul Stager Professor of Psychology
Interests: human engineering in aerospace performance and system design
- Martin Steinbach Distinguished Research Professor of Psychology and Biology
Director, Vision Science Research, Toronto Western Hospital
Senior Scientist, Dept. of Ophthalmology, Hospital for Sick Children
Director of Research, Department of Ophthalmology, University of Toronto
Interests: eye movements, visual-motor coordination, clinical disorders of the oculomotor system
- Wolfgang Stuerzlinger Associate Professor of Computer Science
Interests: human-computer interaction, virtual reality, computer graphics
- Evan Thompson Associate Professor of Philosophy
Interests: philosophical foundations of cognitive science and perception
- John Tsotsos Professor, Dept. of Computer Science, York University
Director, Centre for Vision Research, York University
Canada Research Chair in Computational Vision
Adjunct Professor, Dept. of Computer Science, University of Toronto
Adjunct Professor, Dept. of Ophthalmology, University of Toronto
Interests: human and machine vision, computational models of attention, visual motion understanding, robotics

Members cont'd.

Laurie Wilcox	Associate Professor of Psychology Interests: stereopsis/depth perception
Richard Wildes	Associate Professor of Computer Science Interests: spatiotemporal analysis of visual information, motion analysis, binocular vision, gesture recognition, biometrics
Frances Wilkinson	Professor of Psychology, Atkinson Faculty of Liberal & Professional Studies Affiliated Scientist, Division of Applied and Interventional Research, Toronto Western Research Institute, University Health Network, Toronto Adjunct Professor - Department of Ophthalmology, University of Toronto Interests: involvement of the visual system in migraine; intermediate visual form perception using psychophysical, computational and fMRI methodologies
Hugh Wilson	ORDCF Chair of Biological and Computational Vision Fellow, Canadian Institute for Advanced Research Director, CIHR Training Grant in Vision Health Research Fellow, Optical Society of America Interests: psychophysical and neural models of form vision; fMRI studies of cortical form vision, nonlinear dynamics of cortical function

Activities in 2004-2005

In June 2005, the Centre hosted the International Conference on Computational Vision in Neural and Machine Systems with over 275 participants worldwide.

Publications – 2004-2005

Books -	2
Chapters in Books -	16
Papers in Referred Journal -	91
Published Proceedings -	124
Technical Reports -	1
Conference Presentations -	89
Colloquia and Invited Talks-	39
CVR Colloquium Series-	38

Graduate Student Supervision

MA - 8

MSc - 31

PHD – 43

Research - Faculty research interests included above

Adjunct Professors - 14

Research Associates - 17

Post-Doctoral Fellows - 19