

Jonathan J. Marotta, PhD

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DATE OF BIRTH: November 3, 1969

NATIONALITY: Canadian

EDUCATION:

Ph.D.	(Neuroscience)	The University of Western Ontario, London, Ontario	1998
M.Sc.	(Neuroscience)	The University of Western Ontario	1994
B.Sc.H.	(Psychology)	Queen's University, Kingston, Ontario	1992

PROFESSIONAL EXPERIENCE:

Associate Professor	Department of Psychology, University of Manitoba, Winnipeg, MB	2007-pres.
Guest Worker	National Research Council – Institute for Biodiagnostics	2007-pres.
Assistant Professor	Department of Psychology, University of Manitoba	2004-2007
Senior Research Fellow	Centre for Vision Research, York University, Toronto, ON	2002-2004
Postdoctoral Research Associate	Center for the Neural Basis of Cognition, Carnegie Mellon University, Pittsburgh, PA	1998-2001

SCHOLARLY AND PROFESSIONAL ACTIVITIES:

Editorial Consultant: Experimental Brain Research, Neuropsychologia, Journal of Cognitive Neuroscience, Journal of Experimental Psychology: Human Perception & Performance, Cortex, Journal of Neuroscience, European Journal of Neuroscience, Psyche, Brain Research, Journal of Neuroscience Methods, The Quarterly Journal of Experimental Psychology, British Journal of Psychology, Journal of Neurophysiology, and Child Development.

Learned Societies: Cognitive Neuroscience Society, Society for Neuroscience, Vision Sciences Society, The Organization for Human Brain Mapping

Research Groups:

- Adaptive Telepresence Exercise & Educational Gaming
 - Member
- Centre on Aging at The University of Manitoba
 - Research Affiliate
- Heart and Stroke Foundation Centre for Stroke Recovery (HSFCSR)
 - Associate Member

Grant Peer Review:

Natural Sciences and Engineering Research Council of Canada (NSERC)	2009
• E.W.R. Steacie Memorial Fellowship	
Canadian Institutes of Health Research (CIHR)	2006-2009
• Member of Behavioural Science C Grants Committee	
Heart and Stroke Foundation of Canada (HSF)	2005, 2008-09
• Grant-in-aid	
Natural Sciences and Engineering Research Council of Canada (NSERC)	2005, 2006
• Discovery Grant	
Alberta Heritage Foundation for Medical Research	2006
• Independent Establishment Grant	
Nova Scotia Health Research Foundation	2006
• Health Research Project Grant	
Health Research Council of New Zealand	2004
• International Investment Opportunities Fund	

Institutional:	CIHR Research Advisory Group (CRAG) to the Office of the Vice-President (Research) at the University of Manitoba.	2009-pres.
	Faculty of ARTS Research Committee	2009
	Area Coordinator (Brain and Cognitive Sciences)	2007-2009
	Executive Committee	2007-2009
Workshops:	NRC-IBD MR Safety Training	2007
	MGH-NMR fMRI Visiting Fellowship Program	2000
	University of Pittsburgh Medical Center's MR Safety Seminar	1999

INVESTIGATOR-INITIATED RESEARCH GRANTS:

Canada Foundation for Innovation & Manitoba Research and Innovations Fund	(\$30,000)	2009-2011
<i>Neuropsychology of Vision: Perception and Action Laboratory.</i>		
Innovation Operating Fund		
Riverview Health Centre	(\$13,322)	2009
<i>Investigation of strategies used in visuomotor adaptation in post-stroke patients.</i>		
2009 Research Competition		
CIHR	(\$10,000)	2009
<i>Preventative Treatment and Management Tools and Applications for Balance and Mobility in Older Adults: Development of Primary and Secondary Care, Outcomes and Registry Containing Knowledge-based Expert System.</i>		
Emerging Team Grant: Alliances in Mobility in Aging – Letter of Intent		
CIHR	(\$10,000)	2008
<i>Interactive and adaptive exercise and educational gaming therapy system for intervention of children with neurodevelopmental disorders.</i>		
Emerging Team Grant: Children with Disabilities (Bright Futures for Kids with Disabilities) – Letter of Intent		
University Research Grants Program (URGP)	(\$7,500)	2007-2008
<i>The effects of rotation and inversion on face processing in Alzheimer's Disease.</i>		
CIHR-MHRC RPP	(\$141,840)	2006-2008
<i>Visuomotor processing and sensorimotor integration in the parietal cortex.</i>		
Operating Grant		
Canada Foundation for Innovation & Manitoba Research and Innovations Fund	(\$304,324)	2005
<i>Neuropsychology of Vision: Perception and Action Laboratory.</i>		
New Opportunities Fund		
NSERC	(\$102,860)	2005-2011
<i>The Visual Control of Grasp: Two Interacting Streams.</i>		
Discovery Grant		
Manitoba Health Research Council	(\$100,000)	2005-2008
<i>Neuropsychology of Vision: Perception and Action Laboratory.</i>		
Establishment Grant		
NSERC	(\$18,057)	2005
<i>Hardware for obtaining grasp kinematics in fMRI.</i>		
Research Tools and Instruments		
URGP	(\$7,500)	2005-2006
<i>Hemispacial Neglect: Effects on visual perception and visuomotor control.</i>		
CIHR	(\$199,912)	2004-2006
<i>Hemispacial Neglect: A multidisciplinary investigation of the effects on visual perception and visually guided action.</i>		

Senior Research Fellowship Phase II

McDonnell-Pew Program in Cognitive Neuroscience (\$225,000) 1998-2002
How Does Semantic Information About the Function of an Object Affect Grasping?

PATENTS AND INTELLECTUAL PROPERTY RIGHTS:

Provisional Patent #61/084,662 *Viewing Window* paradigm to assess visuomotor functioning.

An experimental and diagnostic tool for use in identifying conditions that affect parietal lobe and/or visuomotor integration such as: Alzheimer's disease, stroke, Parkinson's, hemispatial neglect, optic ataxia, and natural aging. Differing from other diagnostic tests, this tool requires little verbal instruction and directly assesses a patient's ability to combine visual and motor information. The viewing window provides a quick and informative way of determining performance deficits that are often difficult to detect using standard bedside testing apparatus. Further, the viewing window is a comparatively inexpensive technology, requiring few specialized pieces of equipment.

HONOURS AND AWARDS:

Outstanding Achievement Award Faculty of Arts, University of Manitoba	2006
Senior Research Fellowship Phase II CIHR	2004-2006
Senior Research Fellowship CIHR Institute of Neurosciences, Mental Health and Addiction	2002-2004
Postdoctoral Fellowship NSERC	1998-2000

PUBLICATIONS:

Refereed Journals:

- Baugh, L.A., Lawrence, J.M. & **Marotta, J.J.** (*Submitted*). Novel insular cortex and claustrum activation observed during a visuomotor adaptation task using a viewing window paradigm. *Cortex*.
- Szturm, T., Polyzoi, E., Peters, J., Ramanna, S., **Marotta, J.J.**, Yaduvanshi, C. & Lockery, D. (*Submitted*). Feasibility and Benefits of an Innovative Educational and Exercise Game-based Program for Alcohol affected Children with Learning and Movement Disabilities. *Research in Developmental Disability*.
- Kapadia, N., Szturm T., Shay, B., **Marotta, J.J.**, Peters, J. & Locery, D. (*Submitted*). Effect of geometric properties and motor strategies on movement accuracy and finger force patterns during object manipulation. *Experimental Brain Research*.
- Adduri, C. & **Marotta, J.J.** (2009). The effects of mental rotation and inversion on face perception in healthy aging and Alzheimer's disease. *PLoS One*, 4(7): e6120. doi:10.1371/journal.pone.0006120.
- Baugh, L.A. & **Marotta, J.J.** (2009). When what's left is right: Visuomotor transformations in an aged population. *PLoS One*, 4(5): e5484. doi:10.1371/journal.pone.0005484.
- Wilson, K.R., Pearson, P.M., Matheson, H.E. & **Marotta, J.J.** (2008). Temporal Integration Limits of Stereovision in Perception and Action. *Experimental Brain Research*, 189, 91-98.
- Desanghere, L. & **Marotta, J.J.** (2008). The specificity of learned associations in visuomotor and perceptual processing. *Experimental Brain Research*, 187, 595-601.
- Baugh, L.A. & **Marotta, J.J.** (2007). A new window into the interactions between perception and action. *Journal of Neuroscience Methods*, 160, 128-134.
- Behrmann, M., Avidan, G., **Marotta, J.J.** & Kimchi, R. (2005). Detailed exploration of face-related processing in congenital prosopagnosia: 1. Behavioral findings. *Journal of Cognitive Neuroscience*, 17(7), 1130-1149.
- Behrmann, M., **Marotta, J.J.**, Gauthier, I., Tarr, M.J. & McKeef, T.J. (2005). Behavioral change and its neural correlates in prosopagnosia after expertise training. *Journal of Cognitive Neuroscience*, 17(4), 554-568.

- Marotta, J.J.**, Keith, G.P. & Crawford, J.D. (2005). Task-specific sensorimotor adaptation to reversing prisms. *Journal of Neurophysiology*, 93, 1104-1110.
- Crawford, J.D., Medendorp, W.P. & **Marotta, J.J.** (2004). Visuomotor aspects of eye-hand coordination. *Journal of Neurophysiology*, 92, 10-19. (Invited)
- Marotta, J.J.** & Behrmann, M. (2004). Patient Schn: Has Goldstein and Gelb's case withstood the test of time? *Neuropsychologia*, 42(5), 633-638. (Invited)
- Marotta, J.J.**, Medendorp, W.P. & Crawford, J.D. (2003). Kinematic rules for upper and lower arm contributions to grasp orientation. *Journal of Neurophysiology*, 90, 3816-3827.
- Marotta, J.J.**, McKeef, T.J. & Behrmann, M. (2003). Hemispatial neglect: its effects on visual perception and visually guided grasping. *Neuropsychologia*, 41(9), 1262-1271.
- Marotta, J.J.**, McKeef, T.J. & Behrmann, M. (2002). The effects of rotation and inversion on face processing in prosopagnosia. *Cognitive Neuropsychology*, 19(1), 31-47.
- Marotta, J.J.**, Genovese, C.R. & Behrmann, M. (2001). A functional MRI study of face recognition in patients with prosopagnosia. *Neuroreport*, 12(8), 1581-1587.
- Marotta, J.J.** & Goodale, M.A. (2001). The role of familiar size in the control of grasping. *Journal of Cognitive Neuroscience*, 13(1), 8-17.
- Marotta, J.J.** & Goodale, M.A. (1998). The role of learned pictorial cues in the programming and control of grasping. *Experimental Brain Research*, 121, 465-470.
- Marotta, J.J.**, Kruyer, A. & Goodale, M.A. (1998). The role of head movements in the control of manual prehension. *Experimental Brain Research*, 120, 134-138.
- Marotta, J.J.**, DeSouza, J.F.X., Haffenden, A.M. & Goodale, M.A. (1998). Does a monocularly presented size-contrast illusion influence grip aperture? *Neuropsychologia*, 36(6), 499-504.
- Marotta, J.J.**, Behrmann, M. & Goodale, M.A. (1997). The removal of binocular cues disrupts the calibration of grasping in patients with visual form agnosia. *Experimental Brain Research*, 116, 113-121.
- Marotta, J.J.**, Perrot, T.S., Nicolle, D. & Goodale, M.A. (1995). The development of adaptive head movements following enucleation. *Eye*, 9(3), 333-336.
- Marotta, J.J.**, Perrot, T.S., Nicolle, D., Servos, P. & Goodale, M.A. (1995). Adapting to monocular vision: Grasping with one eye. *Experimental Brain Research*, 104, 107-114.

Refereed Chapters:

- Baugh, L.A., Desanghere, L. & **Marotta, J.J.** (2010). Agnosia. In G. Koob, M. Le Moal and R.F. Thompson (Eds), *Encyclopedia of Behavioral Neuroscience*, (vol. 1, pp. 27-33). London, UK: Academic Press, Elsevier Science. (Invited)
- Feloiu, F.D., **Marotta, J.J.**, Vesia, M., Black, S.E. & Crawford, J.D. (2009). Left-to-right reversal of hemispatial neglect symptoms following adaptation to reversing prisms. In M. Jenkin and L.R. Harris (Eds), *Cortical Mechanisms of Vision* (pp. 35-51). New York, NY: Cambridge University Press. (Invited)
- Marotta, J.J.** & Behrmann, M. (2002). Agnosia. In V.S. Ramachandran (Ed), *Encyclopedia of the human brain* (pp. 59-70). San Diego, CA: Academic Press/Elsevier Science. (Invited)

Refereed Abstracts:

- Millikin, C., Shelton, P.A., **Marotta, J.J.** (Submitted). Neuropsychological Assessment in Two Cases of Posterior Cortical Atrophy. *National Academy of Neuropsychology*.
- Marotta, J.J.** (2010). Posterior cortical atrophy: Insights into Perception and Action. *Canadian Psychological Association*.
- Meek, B., Desanghere, L., **Marotta, J.J.** (2010). Posterior Cortical Atrophy: An investigation of grasping. *Vision Sciences Society, Journal of Vision*.
- Prime, S.L. & **Marotta, J.J.** (2010). Clarifying the role of gaze cues using biologically natural and unnatural faces.

- Baugh, L.A., Lawrence, J.M. & **Marotta, J.J.** (2010). Novel insular cortex and claustrum activation observed during a visuomotor adaptation task using a viewing window paradigm. *Vision Sciences Society, Journal of Vision.*
- Marotta, J.J.**, Desanghere, L., Meek, B., Baugh, L.A., Lawrence, J., Locheed, K. & Shelton, P.A. (2009). Posterior Cortical Atrophy: The effects on Perception and Action. *Vision Sciences Society, Journal of Vision*, 9(8), 1095.
- Desanghere, L. & **Marotta, J.J.** (2009). Gaze strategies and grasping: Complex shapes. *Vision Sciences Society, Journal of Vision*, 9(8), 1108.
- Lawrence, J., Baugh, L.A. & **Marotta, J.J.** (2009). A window into behavioural strategies used in visuomotor adaptation. *Vision Sciences Society, Journal of Vision*, 9(8), 1110.
- Desanghere, L. & **Marotta, J.J.** (2008). Gaze strategies while grasping: What are you looking at?! *Vision Sciences Society, Journal of Vision*, 8(6), 299.
- Wilson, K.R., Pearson, P.M., Jakobson, L.S., Bolster, R.B., **Marotta, J.J.** & Sbotto-Frankenstein, U. (2008). Colour and texture processing in human extrastriate cortex: An fMRI study. *Vision Sciences Society, Journal of Vision*, 8(6), 495.
- Marotta, J.J.**, Mraz, R., Black, S.E. & Graham, S.J. (2007). An fMRI Investigation of Grasping in the Elderly and in Stroke. *The Organization for Human Brain Mapping (OHBM), Neuroimage*, 36, S51.
- Feloiu, F.D., **Marotta, J.J.**, Vesia, M., Black, S.E. & Crawford, J.D. (2007). Parietal Patients and Reversing Prisms. *Festival of International Conferences on Caregiving, Disability, Aging and Technology (FICCDAT)*, 138, 274.
- Rhode, L. & **Marotta, J.J.** (2006). Learned perceptual associations in perception and action: Differences in specificity. *The Trieste Symposium on Perception and Cognition*, 24, 4.
- Rhode, L., Baugh, L.A., Pearson, P.M., Jakobson, L.S. & **Marotta, J.J.** (2006). Colour-Specific Deficits in Implicit Colour Working Memory: A Visuomotor Case Study. *Vision Sciences Society, Journal of Vision*, 6(6), 132a.
- Feloiu, F.D., **Marotta, J.J.**, Black, S.E. & Crawford, J.D. (2005). Adaptation to reversing prisms: pointing in patients with right-parietal damage. *Vision Sciences Society, Journal of Vision*, 5(8), 120a.
- Marotta, J.J.**, Keith, G.P. & Crawford, J.D. (2004). Is reversing prism adaptation global or modular? *Vision Sciences Society, Journal of Vision*, 4(8), 290a.
- Marotta, J.J.**, Medendorp, W.P. & Crawford, J.D. (2003). The 3-Dimensional arm kinematics of grasp orientation. *Society for the Neural Control of Movement*, 13.
- Behrmann, M., Hasson, U., Avidan, G., **Marotta, J.J.**, Harel, M. & Malach, R. (2003). Fusiform face activation in congenital prosopagnosia. *Cognitive Neuroscience Society*, 188.
- Behrmann, M., **Marotta, J.J.**, Harel, M. & Hasson, U. (2002). Activation in fusiform gyrus is not correlated with face recognition: normal cortical activation with impaired face recognition in congenital prosopagnosia. *Vision Sciences Society, Journal of Vision*, 2(7), 562a.
- Marotta, J.J.**, McKeef, T.J. & Behrmann, M. (2001). Visual perception and grasping in hemispatial neglect. *Cognitive Neuroscience Society*, 151.
- Marotta, J.J.**, McKeef, T.J. & Behrmann, M. (2000). The effects of inversion on face processing in prosopagnosia. *Investigative Ophthalmology & Visual Science*, 41(4), 223.
- Marotta, J.J.** & Goodale, M.A. (1999). Familiar size: Calibrating a monocularly guided reach. *Investigative Ophthalmology & Visual Science*, 40(4), 804.
- Marotta, J.J.**, Voyvodic, J.T., Gauthier, I., Tarr, M.J., Thulborn, K.R. & Behrmann, M. (1999). A functional MRI study of face recognition in patients with prosopagnosia. *Cognitive Neuroscience Society*, 83.
- Marotta, J.J.** & Goodale, M.A. (1998). Familiar size: Calibrating a monocularly guided reach. *Investigative Ophthalmology & Visual Science*, 39(4), 1101.
- Marotta, J.J.** & Goodale, M.A. (1997). Elevation in the visual scene: Calibrating a monocularly guided reach. *Investigative Ophthalmology & Visual Science*, 38(4), 988.

- Kruyer, A., **Marotta, J.J.** & Goodale, M.A. (1997). Scene-based binocular cues improve grip trajectory accuracy. *Investigative Ophthalmology & Visual Science*, 38(4), 988.
- Marotta, J.J.**, DeSouza, J.F.X., Haffenden, A.M. & Goodale, M.A. (1996). Does a monocularly presented size-contrast illusion influence grip aperture? *Investigative Ophthalmology & Visual Science*, 37(3), 526.
- Kruyer, A., **Marotta, J.J.** & Goodale, M.A. (1996). Manual grasping in a cue deprived environment. *Investigative Ophthalmology & Visual Science*, 37(3), 526.
- Marotta, J.J.** & Goodale, M.A. (1995). Binocular contribution to size and distance estimation during grasping in a visual agnostic. *Investigative Ophthalmology & Visual Science*, 36(4), 814.
- Marotta, J.J.**, Perrot, T.S., Nicolle, D., Servos, P. & Goodale, M.A. (1994). Adapting to monocular vision: Grasping with one eye. *Investigative Ophthalmology & Visual Science*, 35(4), 2030.
- Abstracts:**
- Szturm, T., Polyzoi, E., Peters, J., Ramanna, S., **Marotta, J.J.**, Yaduvanshi, C. & Ravala, K. (2009). Feasibility and Benefits of an Innovative Educational and Exercise Telegaming / Telemonitoring Program for Young Children with Learning and Movement Disabilities. *The Manitoba Institute of Child Health, 5th Annual Child Health Research Day*, 52.
- Baugh, L.A. & **Marotta, J.J.** (2007). Differential effects of aging on a visuomotor paradigm. Society for Neuroscience Program No. 397.16 2007 Abstract Viewer/Itinerary Planner. Washington, DC: *Society for Neuroscience*. CD-ROM.
- Adduri, C. & **Marotta, J.J.** (2007). Prosopagnosia in early stages of Alzheimer's disease. Society for Neuroscience Program No. 69.5 2007 Abstract Viewer/Itinerary Planner. Washington, DC: *Society for Neuroscience*. CD-ROM.
- Feloiu, F.D., **Marotta, J.J.**, Vesia, M., Black, S.E. & Crawford, J.D. (2007). Visuomotor adaptation to reversing prisms in parietal patients performing a pointing task. *Advances in Neurorehabilitation*, 138, 3.
- Baugh, L.A. & **Marotta, J.J.** (2006). A new window into the interactions between perception and action. Society for Neuroscience Program No. 440.21 2006 Abstract Viewer/Itinerary Planner. Washington, DC: *Society for Neuroscience*. CD-ROM.
- Wilson, K.R., Atkins, M.A., Pearson, P., Timney, B. & **Marotta, J.J.** (2006). Differences in the temporal integration limits of stereovision in perception and action. Society for Neuroscience Program No.440.20 2006 Abstract Viewer/Itinerary Planner. Washington, DC: *Society for Neuroscience*. CD-ROM.
- Adduri, C. & **Marotta, J.J.** (2006). Face recognition and aging. *Canadian Society for Brain and Behaviour, and Cognitive Science*, 54, 9.
- Rhode, L., Baugh, L.A., Pearson, P.M., Jakobson, L.S. & **Marotta, J.J.** (2006). Colour-Specific Deficits in Implicit Colour Working Memory: A Visuomotor Case Study. *Canadian Society for Brain and Behaviour, and Cognitive Science*, 59, 9.
- Wilson, K.R., Pearson, P.M. & **Marotta, J.J.** (2006). Temporal integration limits of stereovision in visually guided grasping. *Canadian Society for Brain and Behaviour, and Cognitive Science*, 104, 10.
- Wilson, K.R. & **Marotta, J.J.** (2006). Temporal integration limits of stereovision in visually guided grasping. *Prairie Undergraduate Research Conference*, 25, 18.
- Adduri, C. & **Marotta, J.J.** (2006). Face Recognition and aging. *Canadian Student Health Research Forum*.
- Feloiu, F.D., **Marotta, J.J.**, Black, S.E. & Crawford, J.D. (2005). Eye-hand coordination in right parietal-damaged patients performing a reversing prism pointing task. *Society for Neuroscience Program No. 287.22 2005 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience. CD-ROM.
- Adduri, C. & **Marotta, J.J.** (2005). Does age influence face recognition? *Prairie Undergraduate Research Conference*, 24, 9.
- Marotta, J.J.**, Keith, G.P. & Crawford, J.D. (2004). Visuomotor adaptation to reversing prisms (I): Separate parallel

sensorimotor representations for reach and grasp. *Society for Neuroscience, Program No. 603.3 2004 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience. CD-ROM

Behrmann, M., **Marotta, J.J.**, Gauthier, I., Tarr, M.J. & McKeef, T.J. (2003). Neural correlates of behavioral change following Greeble Training in Prosopagnosia. *Society for Neuroscience, Program No. 659.4. 2003 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience. CD-ROM.

Marotta, J.J., Medendorp, W.P. & Crawford, J.D. (2002). Contributions of upper and lower arm to grasp orientation. *Society for Neuroscience, Program No. 268.8. 2002 Abstract Viewer/Itinerary Planner*. Washington, DC: Society for Neuroscience. CD-ROM.

Marotta, J.J. & Goodale, M.A. (1997). The influence of familiar size on distance estimates. *Vision for Reach and Grasp*. University of Minnesota, 1, 33.

Marotta, J.J. & Goodale, M.A. (1997). Restricting head movements hampers reaching under monocular but not binocular viewing conditions. *Society for Neuroscience*, 23, 179.

Marotta, J.J. & Goodale, M.A. (1996). Height and distance in the visual field: Calibrating a monocularly guided reach. *Society for Neuroscience*, 22, 885.

Marotta, J.J., DeSouza, J.F.X., Haffenden, A.M. & Goodale, M.A. (1996). A pictorial illusion: The effects of monocular vision on perception and visually guided grasping. *Margaret P. Moffat Graduate Research Day Abstracts*, 1, 34.

Kruyer, A., **Marotta, J.J.** & Goodale, M.A. (1996). Grasping without depth information: A new cue-deprived environment. *Margaret P. Moffat Graduate Research Day Abstracts*, 1, 33.

Patla, A.E., Goodale, M.A., Rietdyk, S., Adkin, A., Silcher, C. & **Marotta, J.J.** (1995). Role of binocular vision in obstacle avoidance during locomotion. *Society for Neuroscience*, 21, 2083.

Marotta, J.J., Perrot, T.S., Nicolle, D., Servos, P. & Goodale, M.A. (1994). Grasping with one eye. *Southern Ontario Neuroscience Association Abstracts*, 14, 21.

Perrot, T.S., Goodale, M.A., Burns, P.M. & **Marotta, J.J.** (1994). Reaching and grasping with one eye: The role of movement. *Southern Ontario Neuroscience Association Abstracts*, 14, 24.

Marotta, J.J., Hargreaves, E.H., Ellard, C., Servos, P. & Carey, D.P. (1993). Spontaneous locomotor activity in the MT lesioned gerbil. *Canadian Society for Brain and Behaviour, and Cognitive Science Programme and Abstracts*, 3, 49.

Invited Colloquia:

Marotta, J.J. (April, 2008). Vision for Perception and Action: Interactions. Presented to the Department of Psychology and the Center for Visual Neuroscience, North Dakota State University, Fargo, ND, USA.

Baugh, L.A. & **Marotta, J.J.** (February, 2008). When what's left is right: Parietal based visuomotor performance in an aged population. Presented to the Sections of Neurology and Neurosurgery, Neuroscience Grand Rounds, Health Sciences Centre, University of Manitoba, Bannatyne Campus, Winnipeg, MB, Canada.

Baugh, L.A. & **Marotta, J.J.** (February, 2008). Visuomotor control in an aged population. Presented to the Spinal Cord Research Centre, Department of Physiology, University of Manitoba, Bannatyne Campus, Winnipeg, MB, Canada.

Marotta, J.J. (November 2007). Perception and Action: Aging, Stroke, and Neurological Impairments. Presented to the National Research Council Institute for Biodiagnostics (NRC-IBD), Winnipeg, MB, Canada. Webcast to NRC-IBD (Atlantic), Halifax, NS, Canada.

Marotta, J.J. (October 2007). Perception and Action: Aging, Stroke, and Neurological Impairments. Presented to Riverview Health Centre, Grand Rounds, Winnipeg, MB, Canada.

Marotta, J.J. (October 2007). Perception and Action: Aging, Stroke, and Neurological Impairments. Presented at the CIHR's Institute of Mental Health Neuroscience and Addiction's Institute Advisory Board (IAB) 28th Meeting, Winnipeg, MB, Canada.

- Marotta, J.J.** (August, 2007). Neuropsychology of Vision: Perception and Action. Presented to Occupational Therapy, Riverview Health Centre, Winnipeg, MB, Canada.
- Rhode, L. & **Marotta, J.J.** (May, 2007). Learned perceptual associations in perception and action: Differences in specificity. Presented to the Sections of Neurology and Neurosurgery, Neuroscience Grand Rounds, Health Sciences Centre, University of Manitoba, Winnipeg, MB, Canada.
- Marotta, J.J.** & Adduri, C. (May, 2007). Perception and Action: Aging, Stroke, and Alzheimer's Disease. Presented at the *Centre on Aging 24th Annual Spring Research Symposium*, Health Sciences Centre, University of Manitoba, Bannatyne Campus, Winnipeg, MB, Canada.
- Marotta, J.J.** & Adduri, C. (April, 2007). Perception and Action: Aging, Stroke, and Alzheimer's Disease. Presented to Centre on Aging, University of Manitoba, Winnipeg, MB, Canada.
- Marotta, J.J.** (June, 2006). Visual and visuomotor malfunctions. Presented to Rehabilitation Services, Inservice Program in Rehabilitation Services, St. Boniface General Hospital, Winnipeg, MB, Canada.
- Marotta, J.J.** (February, 2006). What does a talk on the Visual System have to do with Motor Control? Presented to the Spinal Cord Research Centre, Department of Physiology, University of Manitoba, Bannatyne Campus, Winnipeg, MB, Canada.
- Marotta, J.J.** (January, 2006). Neuropsychology of Vision: Perception and Action. Presented to the Department of Ophthalmology, Ophthalmology Grand Rounds, Misericordia Health Centre, University of Manitoba, Winnipeg, MB, Canada.
- Marotta, J.J.** (September, 2005). Hemispatial Neglect: A multidisciplinary investigation of the effects on visual perception and visually guided action. Presented to the Sections of Neurology and Neurosurgery, Neuroscience Grand Rounds, Health Sciences Centre, University of Manitoba, Bannatyne Campus, Winnipeg, MB, Canada.
- Marotta, J.J.** (October, 2004). Visuomotor adaptation to reversing prisms: Separate parallel sensorimotor representations for reach and grasp. Presented to the Cognitive Psychology Area, University of Manitoba, Winnipeg, MB, Canada.
- Marotta, J.J.** (March, 2004). Vision for perception and action: Neuropsychological Investigations. Presented to the Department of Psychology, University of Saskatchewan, Saskatoon, SK, Canada.
- Marotta, J.J.** (March, 2004). Vision for perception and action: Neuropsychological Investigations. Presented to the Department of Psychology, University of Manitoba, Winnipeg, MB, Canada.
- Marotta, J.J.** (January, 2004). Vision for perception and action: Neuropsychological Investigations. Presented to the Department of Psychology, Atkinson Faculty of Liberal and Professional Studies, York University, Toronto, ON, Canada.
- Marotta, J.J.** (January, 2004). Vision for perception and action: Neuropsychological Investigations. Presented to the Department of Psychology at Wayne State University, Detroit, MI, USA.
- Marotta, J.J.** (December, 2003). Hemispatial Neglect: Visual and Visuomotor Impairments. Presented to the Centre for Stroke Recovery, Sunnybrook and Women's Health Sciences Centre, Toronto, ON, Canada.
- Marotta, J.J.** (April, 2003). Vision for perception and action: Visual and visuomotor representations. Presented to the Life Science Department at University of Toronto Scarborough Campus, Toronto, ON, Canada.
- Marotta, J.J.** (March, 2003). Vision for perception and action: Visual and visuomotor representations. Presented to the Department of Psychology at York University, Toronto, ON, Canada.
- Marotta, J.J.** (March, 2002). Neuropsychological investigations of the Dorsal and Ventral streams of visual processing. Presented to the Centre for Vision Research at York University, Toronto, ON, Canada.
- Marotta, J.J.** (April, 1999). The visual control of grasping: The role of monocular cues. Presented to the Department of Kinesiology at York University, Toronto, ON, Canada.
- Marotta, J.J.** (September, 1998). The visual control of grasping. Presented to the Center for the Neural Basis of Cognition, Pittsburgh, PA, USA.
- Marotta, J.J.** (April, 1998). The visual control of grasping: The role of monocular cues. Presented to the Department of

Psychology, Carnegie Mellon University, Pittsburgh, PA, USA.

Marotta, J.J. (February, 1998). The visual control of grasping: The role of monocular cues. Presented to the Center for Magnetic Resonance Research (CMRR), University of Minnesota, Minneapolis, MN, USA.

Oral Presentations at Scientific Meetings:

Marotta, J.J. (June, 2010). Posterior cortical atrophy: Insights into perception and action. *Canadian Psychological Association*, Winnipeg, MB, Canada.

Marotta, J.J., Keith, G.P. & Crawford, J.D. (October, 2004). Visuomotor adaptation to reversing prisms (I): Separate parallel sensorimotor representations for reach and grasp. *Society for Neuroscience*, San Diego, CA, USA.

Marotta, J.J. & Goodale, M.A. (May, 1998). Familiar size: Calibrating a monocularly guided reach. Presented at the annual meeting of the *Association for Research in Vision and Ophthalmology (ARVO)*, Fort Lauderdale, FL, USA. (*Refereed*)

Marotta, J.J. & Goodale, M.A. (May, 1995). Binocular contribution to size and distance estimation during grasping in a visual agnostic. Presented at the annual meeting of the *Association for Research in Vision and Ophthalmology (ARVO)*, Fort Lauderdale, FL, USA. (*Refereed*)

Marotta, J.J. & Goodale, M.A. (November, 1994). Binocular contribution to size and distance estimation during grasping in a visual agnostic. Presented at the annual meeting of the *Southern Ontario Neuropsychology Group*, University of Guelph, Guelph, ON, Canada. (*Invited*)

Student Presentations at Scientific Meetings:

Hauri, B.R., Lawrence, J.M., Marotta, J.J. (2009). Visuomotor adaptation: Developing a visuomotor training paradigm. *University of Manitoba NSERC Poster Competition*.

Baugh, L.A. & **Marotta, J.J.** (2008). Differential effects of aging on a visuomotor paradigm. *Centre on Aging, Spring Research Symposium*.

Meek, B., Rhode, L. & **Marotta, J.J.** (2007). Eye-hand coordination: What're YOU looking at?! *University of Manitoba NSERC Poster Competition*.

Wilson, K.R., Matheson, H., Pearson, P.M. & **Marotta, J.J.** (2006). Differences in the temporal integration limits of stereovision in perception and action. *University of Manitoba NSERC Poster Competition*.

Wilson, K.R., Matheson, H., Pearson, P.M. & **Marotta, J.J.** (2006). Temporal integration limits of stereovision in visually guided grasping. *University of Winnipeg NSERC Poster Competition*.

Rhode, L., Baugh, L.A., Pearson, P.M., Jakobson, L.S. & **Marotta, J.J.** (2006) Colour-Specific Deficits in Implicit Colour Working Memory: A Visuomotor Case Study. *Canadian Student Health Research Forum*.

Adduri, C. & **Marotta, J.J.** (2006). Face Recognition and aging. *Centre on Aging, Spring Research Symposium*.

Adduri, C. & **Marotta, J.J.** (2006). Face recognition and aging. *Winnipeg Chapter of the Society for Neuroscience Brain Awareness Week*.

Adduri, C. & **Marotta, J.J.** (2006). Face recognition and aging. *Centre on Aging, University of Manitoba Graduate Student Research day*