

# 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:**

Professor	Department of Psychology, University of Manitoba	2014-pres.
Member	Canadian Action and Perception Network (CAPnet Prairies)	2017-pres.
Research Affiliate	Centre on Aging at The University of Manitoba	2005-pres.
Affiliate Scientist	Thunder Bay Regional Research Institute (TBRRI)	2012-2018
Associate Professor	Department of Psychology, University of Manitoba	2007-2014
Guest Worker	National Research Council – Institute for Biodiagnostics	2007-2013
Research Affiliate	Riverview Health Centre, Winnipeg, MB	2006-2013
Associate Member	Heart and Stroke Foundation Centre for Stroke Recovery (HSFCSR)	2004-2013
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:**

Grant Peer Review:	Natural Sciences and Engineering Research Council of Canada (NSERC)	2005-pres.
	• Discovery Grant	
	Sapienza, University of Rome	2020
	• Research Funding Call	
	Alzheimer's Society, U.K.	2018
	• Junior Fellowship	
	Faculty of Graduate Studies Awards Committee	2017-2018
	• NSERC Sub-Committee	
	The Centre on Aging	2015
	• Member of Scholarship Adjudication Committee	
	Heart and Stroke Foundation of Canada (HSFC)	2011
	• Member of Research Fellowship Committee	
	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, 08-09
	• Grant-in-aid	
	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	
External Examiner:	York University, Ontario, Canada (Promotion and Tenure)	2022
	Thompson Rivers University, British Columbia, Canada (Promotion and Tenure)	2020
	Ben-Gurion University of the Negev, Beer-Sheva, Israel (PhD examination)	2017
	University of British Columbia, British Columbia, Canada (PhD examination)	2017
Steering Committee:	The Canadian Action and Perception Network (CAPnet)	2019-
Event Organization:	Manitoba Neuroscience Network Scientific Meeting	2017-2018
	• Co-Chair: Organizing Committee	
	Vision in the Prairies (VIP) Scientific Meeting	2006
	• Organizer	
Institutional:	Examination & Evaluation/Grade Review & Appeals	2024
	Teaching Evaluation/Rules & Procedures/Nominating	2024
	Research Ethics Board 1 (REB 1)	
	• Chair	2021-2023
	• Member	2023-2024
	Human Ethics Resource Committee (HERC)	2018-2023
	Faculty Search Committee	2011, '20,
	• Brain & Cognitive Sciences	'24
	Psychology/Sociology Research Ethics Board (PSREB)	2018-2021
	• Chair	
	Psychology/Sociology Research Ethics Board (PSREB)	2013-2018
	• Member	
	NSERC Internal Peer Review Program	2019
	• Kinesiology & Recreation Management	
	Canada Research Chair Search Committee Member	2019
	• Social Psychology	
	Department of Psychology Tenure and Promotion Committee	2014-2020
	Department of Psychology Executive Committee	2007-'09, '15-'17
	Faculty of Science Executive Committee	2014-2016
	Canada Foundation for Innovation Peer Review Program	2012
	• Kinesiology & Recreation Management	
	Faculty of ARTS Research Committee	2009-11
	CIHR Research Advisory Group to the Office of the Vice-President (Research)	2009
	NSERC Mentor	2009
	• Psychology	
	Canada Research Chair Search Committee Member	2008
	• Brain & Cognitive Sciences	
	Area Chair	2007-09, 2021-22
	• Brain & Cognitive Sciences	
	University Faculty Award (UFA) Search Committee	2007
	• Brain & Cognitive Sciences	

	NSERC Internal Peer Review Program	2006
	• Physiology	
Community:	Sanofi-Aventis Biotalent Challenge (SABC)	2011
	• Research Mentor	
	Manitoba Schools Science Symposium	2010
	• Research Mentor	
Workshops:	Canadian Association of Research Ethics Boards (CAREB-ACCER)	2019
	NRC-Institute for Biodiagnostics (Winnipeg) MR Safety Training	2007
	Massachusetts General Hospital NMR fMRI Visiting Fellowship Program	2000
	University of Pittsburgh Medical Center's MR Safety Seminar	1999

#### INVESTIGATOR-INITIATED RESEARCH GRANTS:

Weston Brain Institute	(\$1,499,758)	2020-2023
<i>Changes in metabolic activity and gait function by dual-task cognitive game-based treadmill system intervention.</i>		+2 year COVID extension
Transformational Research: Canada 2019 PD-Related Diseases Collaborator		
NSERC	(\$4,650)	2020-2021
<i>Covid-19 Supplement funding.</i>		
University Collaborative Research Program (UCRP)	(\$24,960)	2019-2021
<i>Neural underpinnings of improved mobility function by dual-task cognitive game-based treadmill system intervention in Parkinson's disease.</i>		
Co-Applicant		
AGE-WELL	(\$25,000)	2019-2020
<i>The Manitoba Aging, Rehabilitation, and Technology Institute (MARTI)</i>		
NCE Innovation Hub (AWNIH) Application for Intent to Establish		
Co-Investigator		
NSERC	(\$174,000)	2018-2026
<i>Eye-hand Coordination: Exploring How and When perception and action interact.</i>		
Discovery Grant		
Research Manitoba	(\$45,000)	2017-2018
<i>Eye-hand coordination: Exploring How and When perception and action interact.</i>		
Tri-Council Bridge Funding		
NSERC	(\$155,000)	2011-2017
<i>Eye-hand coordination: Adding complexity.</i>		
Discovery Grant		
Canada Foundation for Innovation & Manitoba Research and Innovations Fund	(\$30,000)	2010-2015
<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)	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
<i>The effects of rotation and inversion on face processing in Alzheimer's Disease.</i>		

CIHR-MHRC RPP <i>Visuomotor processing and sensorimotor integration in the parietal cortex.</i> Operating Grant	(\$141,840)	2006-2008
Canada Foundation for Innovation & Manitoba Research and Innovation Fund <i>Neuropsychology of Vision: Perception and Action Laboratory.</i> New Opportunities Fund	(\$304,324)	2005
NSERC <i>The Visual Control of Grasp: Two Interacting Streams.</i> Discovery Grant	(\$102,860)	2005-2011
Manitoba Health Research Council <i>Neuropsychology of Vision: Perception and Action Laboratory.</i> Establishment Grant	(\$100,000)	2005-2008
NSERC <i>Hardware for obtaining grasp kinematics in fMRI.</i> Research Tools and Instruments	(\$18,057)	2005
University Research Grant Program <i>Hemispatial Neglect: Effects on visual perception and visuomotor control.</i>	(\$7,500)	2005
CIHR <i>Hemispatial Neglect: A multidisciplinary investigation of the effects on visual perception and visually guided action.</i> Senior Research Fellowship Phase II	(\$199,912)	2004-2006
McDonnell-Pew Program in Cognitive Neuroscience <i>How Does Semantic Information About the Function of an Object Affect Grasping?</i>	(\$225,000)	1998-2002

**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:**

Department of Psychology Teaching Award Department of Psychology, University of Manitoba	2024 (2015, ’17, ’21, ’23 Nominee)
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:

*For works by my trainees, principal investigator is typically last author and other authors are listed in order of their contributions.*

### Refereed Journals:

- Langridge, R.W. & **Marotta, J.J.** (2022). Use of remote data collection methodology to test for an illusory effect on visually guided cursor movements. *Frontiers in Psychology*, 13:922381. <https://doi.org/10.3389/fpsyg.2022.922381>.
- Carther-Krone, T.A., & **Marotta, J.J.** (2022). The influence of magnocellular and parvocellular visual information on global processing in White and Asian populations. *PLoS ONE* 17(7): e0270422. <https://doi.org/10.1371/journal.pone.0270422>.
- Abbas, H.H., Langridge, R.W. & **Marotta, J.J.** (2021). Eye-hand coordination: Memory-guided grasping during obstacle avoidance. *Experimental Brain Research*, 240, 453-466. <https://doi.org/10.1007/s00221-021-06271-w>.
- Ladwig, J.C., do Prado, T.C., Tomy, S., **Marotta, J.J.**, & Glazebrook, C.M. (2021). Rhythm and Reaching: The influence of rhythmic auditory cueing in a goal-directed reaching task with adults diagnosed with Cerebral Palsy. *Adapted Physical Activity Quarterly*, 39(1), 1-16. <https://doi.org/10.1123/apaq.2021-0019>.
- Szturm, T., Kolesar, T.A., Mahana, B., Goertzen, A., Hobson, D.E., **Marotta, J.J.**, Strafella, A.P. & Ko, J.H. (2021). Changes in metabolic activity and gait function by dual-task cognitive game-based treadmill system in Parkinson's Disease: Protocol and preliminary data of a randomized controlled trial. *Frontiers in Aging Neuroscience*, 13:680270. <https://doi.org/10.3389/fnagi.2021.680270>.
- Senanayake, S.S., Carther-Krone T.A. & **Marotta, J.J.** (2021). Priming of the Sander Parallelogram Illusion separates perception from action. *Experimental Brain Research*, 239, 2207–2220.
- Langridge, R.W. & **Marotta, J.J.** (2021). Manipulation of 3-D and 2-D stimuli: Comparing digit placement and fixation position. *Experimental Brain Research*, 239, 1863–1875.
- Carther-Krone, T.A., Senanayake, S.S. & **Marotta, J.J.** (2020). The Influence of the Sander Parallelogram Illusion and Early, Middle and Late Vision on Goal-Directed Reaching and Grasping. *Experimental Brain Research*, 238(12), 2993-3003.
- Carther-Krone, T.A., Lawrence-Dewar, J., Nah, J.C., Collegio, A.J., Shomstein, S. & **Marotta, J.J.** (2020). Neural correlates of perceptual grouping under conditions of preattention and divided-attention. *Perception*, 49(5), 495-514.
- Thulasiram, M.R., Langridge, R.W., Abbas, H.H. & **Marotta, J.J.** (2020). Eye-Hand coordination in reaching and grasping vertically moving targets. *Experimental Brain Research*, 238(6), 1433-1440.
- Langridge, R.W. & **Marotta, J.J.** (2020). Grasping a 2D virtual target: The influence of target position and movement on gaze and digit placement. *Human Movement Science*, 71, 102625.
- Glazebrook, C.M., Brown, K., Prime, S.L., Passmore, S.R. & **Marotta, J.J.** (2020). Both reaching and grasping are impacted by temporarily induced paresthesia. *Somatosensory & Motor Research*, 37(2), 106-116.
- Bhatt, M., Mahana, B., **Marotta, J.J.**, Ko, J.H., Hobson, D.E & Szturm, T. (2019). A new technique to test the effect of cognition on standing balance in Parkinson's Disease. *Open Journal of Parkinson's Disease and Treatment*, 2(1), 006-013.
- Langridge, R.W. & **Marotta, J.J.** (2017). Grasping occluded targets: Investigating the influence of target visibility, allocentric cue presence, and direction of motion on gaze and grasp accuracy. *Experimental Brain Research*, 235(9), 2705-2716.
- Nankar, M., Szturm, T., **Marotta, J.J.**, Shay, B.L., Beauchet, O. & Allali, G. (2017). The interacting effects of treadmill walking and different types of visuospatial cognitive task: Discriminating dual task and age effects. *Archives of Gerontology and Geriatrics*, 73, 50-59.
- Marotta, J.J.**, Graham, T.J. (2016). Cluttered environments: Differential effects of obstacle position on grasp and gaze locations. *Canadian Journal of Experimental Psychology*, 70(3), 242-247.
- Carther-Krone, T.A., Shomstein, S. & **Marotta, J.J.** (2016). Looking without perceiving: Impaired preattentive perceptual grouping in Autism Spectrum Disorder. *PLoS ONE*, 11(6): e0158566. <https://doi.org/10.1371/journal.pone.0158566>.

- Desanghere, L. & **Marotta, J.J.** (2015). The influence of object shape and centre of mass on grasp and fixation locations. *Frontiers in Psychology*, 6:1537. <https://doi.org/10.3389/fpsyg.2015.01537>.
- Bulloch, M., Prime, S.L. & **Marotta, J.J.** (2015). Anticipatory gaze strategies when grasping moving objects. *Experimental Brain Research*, 233(12), 3413-3423.
- Szturm, T., Sakhalkar, V., Boreskie, S., **Marotta, J.J.**, Wu, C. & Kanitkar, A. (2015). Integrated computerized testing of standing balance, gaze performance, and cognition: Test-retest reliability and construct validity. *Gait and Posture*, 14, 146-152.
- Szturm, T., Polyzoi, E., **Marotta, J.J.**, Srikesavan, C.S., & Medeiros, M. A. (2014). An in-school game-base program of combined fine motor exercise and educational activities for children with neuro-developmental disorders. *Games for Health Journal*, 3(6), 326-332.
- Meek, B.P., Locheed, K., Lawrence-Dewar, J.M., Shelton, P. & **Marotta, J.J.** (2013). Posterior cortical atrophy: An investigation of scan paths generated during Face Matching tasks. *Frontiers in Human Neuroscience*, 7:309. <https://doi.org/10.3389/fnhum.2013.00309>. (Invited)
- Meek, B.P., Shelton, P. & **Marotta, J.J.** (2013). Posterior cortical atrophy: Visuomotor deficits in reaching and grasping. *Frontiers in Human Neuroscience*, 7:294. <https://doi.org/10.3389/fnhum.2013.00294>. (Invited)
- Szturm, T., **Marotta, J.J.**, Wu, C., Nayak, A. (2013). Technology-assisted and motivational program for a blended approach to prevent and manage balance, gaze, mobility and cognitive decline with age. *OA Evidence-Based Medicine*, Apr 01;1(1):4. (Invited)
- Szturm, T., Maharjan, P., **Marotta, J.J.**, Shay, B., Shrestha, S. & Sakhalkar, V. (2013). The interacting effect of cognitive and motor task demands on performance of gait, balance and cognition in young adults. *Gait and Posture*, 38(4), 596-602.
- Prime, S.L. & **Marotta, J.J.** (2013). Gaze strategies during visually-guided versus memory-guided grasping. *Experimental Brain Research*, 225, 291-305.
- Lawrence-Dewar, J.M., Baugh, L.A. & **Marotta, J.J.** (2012). Behavioural distinction between strategic control and spatial realignment during visuomotor adaptation in a Viewing Window task. *PLoS ONE* 7(11): e48759. <https://doi.org/10.1371/journal.pone.0048759>.
- Baugh, L.A., Lawrence, J.M. & **Marotta, J.J.** (2011). Novel claustrum activation observed during a visuomotor adaptation task using a viewing window paradigm. *Behavioral Brain Research*, 223(2), 395-402.
- Desanghere, L., **Marotta, J.J.** (2011). "Graspability" of objects affect gaze patterns during perception and action tasks. *Experimental Brain Research*, 212(2), 177-187.
- Lawrence, J.M., Abhari, K., Prime, S.L., Meek, B.P., Desanghere, L., Baugh, L.A. & **Marotta, J.J.** (2011). A novel integrative method for analyzing eye and hand behaviour during grasping in an MRI environment. *Behavior Research Methods*, 43(2), 399-408.
- Adduri, C. & **Marotta, J.J.** (2009). Mental rotation of faces in healthy aging and Alzheimer's disease. *PLoS ONE*, 4(7): e6120. <https://doi.org/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. <https://doi.org/10.1371/journal.pone.0005484>
- Wilson, K.R., Pearson, P.M., Matheson, H.E. & **Marotta, J.J.** (2008). Temporal integration limits of stereovision in reaching and grasping. *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). Spatial transformations for 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). Hemispacial 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., Desanhere, L. & **Marotta, J.J.** (2017). Agnosia. In *Reference Module in Neuroscience and Biobehavioral Psychology*, Elsevier. ISBN 9780128093245 (Invited)
- Baugh, L.A., Desanhere, 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 hemispacial 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:**

- Glazebrook, C.M., Mohammadalinezhad Kollahdouz, S., Malone, Q., Passmore, S.R. & **Marotta, J.J.** (2024). Age-related insights into motor control using the one-target advantage phenomenon. *Motor Control* 2024, 17.
- Mohammadalinezhad Kollahdouz, S., Malone, Q., Passmore, S.R., **Marotta, J.J.** & Glazebrook, C.M. (2024). Exploring the impact of augmented sensory feedback on movement performance in younger and older adults using the one-target advantage paradigm. *Motor Control* 2024, 30.
- Ekladuce, Y.G. & **Marotta, J.J.** (2024). The impact of directionality bias on anticipatory gaze behaviour in a visuomotor task. *Canadian Society for Brain, Behaviour and Cognitive Science*, 34, 17.
- Saran, A.K., Wood, S., & **Marotta, J.J.** (2024). The influence of hand depiction types on behavioural patterns in laterality judgments. *Canadian Society for Brain, Behaviour and Cognitive Science*, 34, 17.

- Ekladuce, Y.G. & **Marotta, J.J.** (2024). The impact of directionality bias on anticipatory gaze behaviour in a visuomotor task. *Canadian Action and Perception Network – CSBBCS Satellite Symposium*, 6.
- Saran, A.K., Wood, S., & **Marotta, J.J.** (2024). The Influence of Hand Depiction Types on Behavioural Patterns in Laterality Judgments. *Canadian Action and Perception Network – CSBBCS Satellite Symposium*, 5.
- Saran, A.K., & **Marotta, J.J.** (2022). Does aging affect our ability to mentally simulate hand movements? *Rotman Research Institute Virtual Conference*, 505.
- Langridge, R.W. & **Marotta, J.J.** (2022). The Ebbinghaus illusion influences cursor movement but not final accuracy or movement time in a point-and-click task. *Vision Sciences Society, Journal of Vision*, 22(14): 3594, <https://doi.org/10.1167/jov.22.14.3594>.
- Saran, A. K. & **Marotta, J.J.** (2022). The effects of implicit motor imagery using the Hand Laterality Judgement Task. *Vision Sciences Society, Journal of Vision*, 22(14): 3240, <https://doi.org/10.1167/jov.22.14.3240>.
- Langridge, R.W. & **Marotta, J.J.** (2020). 2D and 3D stimuli both generate stable digit placement during a manipulation task. *Vision Sciences Society, Journal of Vision*, 20(11): 940, <https://doi.org/10.1167/jov.20.11.940>.
- Carther-Krone, T.A., Lawrence-Dewar, J., Collegio, A.J., Nah, J.C., Shomstein, S & **Marotta, J.J.** (2019). Perception with and without attention: Neural correlates of grouping by similarity in preattention and divided-attention conditions. *Vision Sciences Society, Journal of Vision*, 19 (10):151, <https://doi.org/10.1167/19.10.151>.
- Thulasiram, M.R., Langridge, R.W., Abbas, H.H. & **Marotta, J.J.** (2019). Eye-hand coordination in reaching and grasping vertically translating targets. *Vision Sciences Society, Journal of Vision*, 19(10):109b, <https://doi.org/10.1167/19.10.109b>.
- Langridge, R.W. & **Marotta, J.J.** (2019). Grasping 2-D targets in motion: The influence of a preferable central grasp location on eye-hand coordination. *Vision Sciences Society, Journal of Vision*, 19(10):109a, <https://doi.org/10.1167/19.10.109a>.
- Leferink, C.A., Bruce, N.D.B. & **Marotta, J.J.** (2017). Visualization of viewing strategies for grasping a rotating target. *Vision Sciences Society, Journal of Vision*, 17(464), <https://doi.org/10.1167/17.10.464>.
- Langridge, R.W. & **Marotta, J.J.** (2016). Influence of cue presence on eye-hand coordination: Disappearing targets in motion. *Prairie Perception Action and Cognition Team (P-PACT)*.
- Carther-Krone, T.A., Lawrence-Dewar, J., Shomstein, S., & **Marotta, J.J.** (2016). Brain Networks Involved in Perceptual Grouping During Divided-Attention. *Prairie Perception Action and Cognition Team (P-PACT)*.
- Leferink, C.A., Bruce, N.D.B., **Marotta, J.J.** (2016). Eye-hand coordination: Adaptive visuomotor strategies for dynamic targets. *Prairie Perception Action and Cognition Team (P-PACT)*.
- Ladwig, J.C., do Prado, T.C., **Marotta, J.J.** & Glazebrook, C.M. (2016). Facilitating movement performance in Cerebral Palsy: The impact of rhythmic auditory cueing in a goal-directed reaching task. *Canadian Society for Psychomotor Learning and Sport Psychology, Journal of Exercise, Movement, and Sport*, 48(1).
- Langridge, R.W. & **Marotta, J.J.** (2016). Moving targets: Effects of occlusion on eye and grasp movements. *Vision Sciences Society, Journal of Vision*, September 2016, Vol. 16, 454. <https://doi.org/10.1167/16.12.454>.
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## Abstracts:

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- Saran, A.K., Wood, S., & **Marotta, J.J.** (2024). The influence of hand depiction types on behavioural patterns in laterality judgments. *Manitoba Neuroscience Network, 2024 Annual Research Symposium*, 78.
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- Saran, A.K., & **Marotta, J.J.** (2022). Is our ability to mentally simulate hand movements affected by aging? *Centre on Aging 39<sup>th</sup> Annual Spring Research Symposium*, 12.
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- Wilson, K.R., Pearson, P.M. & **Marotta, J.J.** (2006). Temporal integration limits of stereovision in visually guided grasping. *Canadian Society for Brain, Behaviour, and Cognitive Science, 104*, 10.

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- 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, Behaviour, and Cognitive Science Programme and Abstracts*, 3, 49.

### Invited Colloquia:

- Marotta, J.J.** (April, 2023). A Perception and Action approach to Cognitive Neuroscience. Webinar presented to the *Neurosciences Division (NSD) of the Canadian Physiotherapy Association (CPA)*. <https://embodiaapp.com/webinars/785-a-perception-and-action-approach-to-cognitive-neuroscience-neurosciences-division>.
- Marotta, J.J.** (April, 2021). From patients to robots: A Perception and Action approach to Biomedical Engineering. Presented at the *Biomedical Engineering Seminar*, Biomedical Engineering, University of Manitoba, Ft. Garry Campus, Winnipeg, MB, Canada.
- Marotta, J.J.** (May, 2020). Perception and Action: Strange things that patients do. Keynote presentation at the *Let's Talk Science High-school Symposium {Neurotalks} 2020*, Health Sciences Centre, University of Manitoba, Bannatyne Campus, Winnipeg, MB, Canada (Symposium Cancelled COVID-19).
- Marotta, J.J.** (May, 2018). Perception and Action: Strange things that patients do. Presented at the *Centre on Aging 35th Annual Spring Research Symposium*, Health Sciences Centre, University of Manitoba, Bannatyne Campus, Winnipeg, MB, Canada.
- Marotta, J.J.** (March, 2018). Neuropsychological investigations of parts-based perceptual processing. Presented to Human Functional Imaging Core, Division of Basic Biomedical Sciences, Sanford School of Medicine, University of South Dakota, Vermillion, SD, USA.
- Marotta, J.J.** (April, 2017). Perception and Action: Strange things that patients do. Presented to the *Institut Collégial Vincent Massey Collegiate*, Winnipeg, MB, Canada.
- Marotta, J.J.** (March, 2015). Posterior Cortical Atrophy: Insights into Perception and Action. Presented to the Centre on Aging, University of Manitoba, Winnipeg, MB, Canada.
- Lawrence-Dewar, J.M., McKenzie, M., Baugh, L.A. & **Marotta, J.J.** (October, 2012). Decline in visuomotor adaptation behaviour in aging and stroke: A Viewing Window Study. Presented to Occupational Therapy, Riverview Health Centre, Winnipeg, MB, Canada.
- Marotta, J.J.** (March, 2012). Perception and Action: Posterior Cortical Atrophy. Presented at the *Cognitive Neuroscience Minisymposium*, as part of the Society for Neuroscience's (Manitoba Chapter) *Brain Awareness Week 2012*, University of Manitoba, Bannatyne Campus, Winnipeg, MB, Canada.
- Prime, S.L. & **Marotta, J.J.** (March, 2012). Gaze strategies during visually-guided versus memory-guided grasping. Presented at the *Cognitive Neuroscience Minisymposium*, as part of the Society for Neuroscience's (Manitoba Chapter) *Brain Awareness Week 2012*, University of Manitoba, Bannatyne Campus, Winnipeg, MB, Canada.
- Marotta, J.J.** (November, 2010). Insights into perception and action: Agnosia. Presented to the Society for Neuroscience (Manitoba Chapter) as part of the *Manitoba Neuroscience Network Seminar Series* and the University of Manitoba Clinical Neuroscience Rounds, University of Manitoba, Bannatyne Campus, Winnipeg, MB, Canada.
- Baugh, L.A., & **Marotta, J.J.** (May, 2009). Utilizing fMRI for Neuropsychological Research: Facts, Fables, and Features. *Rupert's Land Consumer Behaviour Symposium*, University of Manitoba, Winnipeg, MB, Canada.
- 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 at the CIHR's Institute of Mental Health Neuroscience and Addiction's Institute Advisory Board (IAB) 28<sup>th</sup> Meeting, Winnipeg, MB, 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.** (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:**

Langridge, R.W. & **Marotta, J.J.** (June, 2020). 2D and 3D stimuli both generate stable digit placement during a manipulation task. Presented at the annual meeting of the *Vision Sciences Society*. Virtual presentation due to Covid-19.

Carther-Krone, T.A. & **Marotta, J.J.** (June, 2018). Perceiving without seeing: Examining pre-attentive perceptual grouping using the Ponzo Illusion. Presented at the annual meetings of the *Manitoba Neuroscience Network*, Winnipeg, MB, Canada. (*Invited*)

**Marotta, J.J.** (June, 2013). Posterior cortical atrophy: Insights into perception and action. Presented at the annual meetings of the *Manitoba Neuroscience Network* and the *Manitoba/Ontario endMS Research and Training Centre*, Winnipeg, MB, Canada. (*Invited*)

**Marotta, J.J.** (June, 2010). Posterior cortical atrophy: Insights into perception and action. Presented in the *Perception and Cognition: What we can learn from diverse populations* symposium at the annual meeting of the *Canadian Psychological Association*, Winnipeg, MB, Canada. (*Refereed*)

**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. Presented at the annual meeting of the *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 agnosia. 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 agnosic. Presented at the annual meeting of the *Southern Ontario Neuropsychology Group*, University of Guelph, Guelph, ON, Canada. (*Invited*)