

Jennifer L. Campos, PhD

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Last Updated: January, 2012

EDUCATION

McMaster University (November, 2007) Hamilton, Ontario
PhD, Psychology, Neuroscience and Behaviour

University of Guelph (June, 2001) Guelph, Ontario
BA Honours, Psychology

WORK EXPERIENCE

Toronto Rehabilitation Institute Toronto, Ontario
iDAPT Centre for Rehabilitation Research
CEAL Chief Scientist (April, 2009 – current)

University of Toronto Toronto, Ontario
Department of Psychology
Assistant Professor (July, 2010 – current)

University of Toronto Toronto, Ontario
School of Graduate Studies
Associate Member (July, 2010 – current)

York University Toronto, Ontario
Centre for Vision Research
Adjunct Member (Dec. 2009 - current)

University of Toronto Toronto, Ontario
Department of Occupational Sciences and Occupational Health
Status Appointment (Sept. 2009 – current)

Max Planck Institute for Biological Cybernetics Tübingen, Germany
Post-doctoral fellow (2007-2009)
Research Team Leader (2008-2009)

McMaster University
Department of Psychology, Neuroscience and Behaviour
Instructor, Neuroscience Laboratory (Fall, 2004)

Hamilton, Ontario

McMaster University
Department of Psychology, Neuroscience and Behaviour
Teaching Assistant (Fall, 2001- Winter, 2006)

Hamilton, Ontario

University of Guelph
Department of Psychology
Teaching Assistant (Fall, 2000, Winter, 2001)

Guelph, Ontario

RESEARCH INTERESTS

Self-motion perception, multisensory integration, perception-action coupling, visuomotor control, Virtual Reality, locomotor rehabilitation, aging, vestibular system, proprioception, visual perception, driving

PUBLICATIONS

Peer-Reviewed Journal Articles

- Campos, J.L., Butler, J.S., Bühlhoff, H.H. (submitted). Multisensory integration in the estimation of walked distances.
- von Laßberg, C., Campos J.L., Beykirch, K., and Krug, J. (submitted). Expert ranking method for the evaluation of multi-axial spatial orientation in gymnasts.
- von Laßberg, C., Beykirch, K., Campos, J.L., and Krug, J. (in press). Smooth pursuit adaptation mechanisms for multi-axial whole body rotations in sporting activities. *Motor Control*
- Butler, J.S., Campos, J.L., Bühlhoff, H.H., Smith, S.T. (2011). The role of stereo vision in visual-vestibular heading estimation. *Seeing and Perceiving*, 24(5), 453-470.
- Campos, J.L.*, Frissen, I.*, Souman, J., and Ernst, M. (2011). Integration of vestibular and proprioceptive signals for spatial updating. *Experimental Brain Research* *Shared first author, 212, 163-176.
- Liu, Q., Campos, J.L., Zhang, Y., Sun, H.J., Zhang, Q. (2011). Neural mechanisms for the effect of prior knowledge on audiovisual integration. *Biological Psychology*, 87(2), 200-208.
- Butler, J.S., Smith, S.T. Campos, J.L., and Bühlhoff, H.H. (2010). Bayesian integration of visual and vestibular signals for heading. *Journal of Vision* 10(12), 1-13. doi: 10.1167/10.11.23

- Campos, J.L., Byrne, P., and Sun, H-J. (2010). The brain weights body-based cues higher than vision when estimating walked distance. *European Journal of Neuroscience*, 31(10), 1889-1898.
- Liu, Q, Li, H, Campos, J.L., Teeter C., Tao, W. Zhang, Q, Sun, H-J (2010). Language suppression effects on the categorical perception of colour as evidenced through ERPs. *Biological Psychology*, 85(1), 45-52.
- Campos, J.L., Siegle, J., Mohler, B.J., Bülthoff, H.H. and Loomis, J.M. (2009). Imagined self-motion differs from perceived self-motion. *PLoSOne* 4(11): e7793. doi:10.1371/journal.pone.0007793
- Siegle, J., Campos J.L., Mohler, B.J., Loomis, J.M. and Bülthoff, H.H., (2009). High-precision capture of perceived self-velocity during passive translations. *Experimental Brain Research*, 195, 429-444.
- Liu, G., Wu, Y., Yang, Q., Campos, J.L., Zhang, Q.L., and Sun, H.J. (2009). Neural correlates of size illusions: an event-related potential study. *Neuroreport* 20, 809-814.
- Liu, Q., Li H., Campos, J.L., Wang Q., Zhang, Y., Qiu J., Zhang, Q., and Sun, H-J. (2009). The N2pc component in ERP and the lateralization effect of language on colour perception. *Neuroscience Letters*, 454(1), 58-61.
- Zhou, L., Yan, J.J., Lui, Q., Li, H., Xie, C.X., Wang, Y.H., Campos, J.L., and Sun H-J. (2007). Visual and auditory information specifying an impending collision of an approaching object. *Lecture Notes in Computer Science*, 4551, 720-729.
- Sun, H-J., Campos, J. L., Chan, G. S. W., Young, M. E., and Ellard C.G. (2004). The contributions of static visual cues, non-visual cues, and optic flow in distance estimation. *Perception*, 33, 45-69.
- Sun, H-J., Campos, J. L., and Chan, G. S. W., (2004). Multisensory integration in the estimation of relative path length. *Experimental Brain Research*, 154, 246-254.
- Sun, H-J., Chan, G. S. W., and Campos, J. L. (2004). Active navigation and orientation-free spatial representations. *Memory and Cognition*, 32, 51-71.
- Sun, H-J., Lee, A., Campos, J. L., Chan, G. S. W., and Zhang, D-H. (2003). Multisensory integration in speed estimation during self-motion in a virtual environment. *CyberPsychology and Behaviour*, 6(5), 509-518.

***Publications 14, 15, and 17 represent my PhD thesis work.*

Peer-Reviewed Book Chapters

- Frissen, I., Campos, J.L., Souman, J., Sreenivasa, M, Ernst, M.O. (submitted). Enabling unconstrained omnidirectional walking through virtual environments: an in-depth overview

of the CyberWalk project. In "Human Walking in Virtual Environments" Ed. Campos, J.L., Visell, Y., Steinicke, F., Lécuyer, A. *Springer*

- Campos, J.L. and Bühlhoff, H.H. (2011). Multisensory Integration during Self-Motion in Virtual Reality. In "*Frontiers in the Neural Bases of Multisensory Processes*" Ed. Wallace, M., and Murray, M. London: Taylor and Francis Group.

Edited Book

- Human walking in real and virtual environments: Design approaches, technologies and applications (proposal accepted, Sept. 8, 2010). Co-editors; Campos, J.L., Visell, Y., Steinicke, F., Lécuyer, A. *Springer*

PhD Thesis

- Campos, J.L. (November, 2007) Multisensory integration in the estimation of distance travelled. Doctoral thesis, Department of Psychology, Neuroscience and Behaviour, McMaster University.

Invited Papers

- Campos, J.L, and Wang, R. (Summer, 2010). Toronto Rehab's iDAPT Facility: Technology meets rehabilitation. *Synapse*

Conference Papers

- Crichlow, L.R., Fernie, G.R., Campos, J.L, and Grant, P.R. (June, 2011). A full motion manual wheelchair simulator for rehabilitation research. *Rehabilitation Engineering and Assistive Technology Society of North America*. ** Winner of the Student Scientific Paper Award**
- Bühlhoff, H.H., Campos, J.L., Meilinger, T. (2008) "Virtual Reality as a Valuable Research Tool for Investigating Different Aspects of Spatial Cognition". C. Freksa et al. (Eds.): *Spatial Cognition VI*, 1–3.
- Campos, J. L., Nusseck, H-J., Wallraven, C., Mohler, B.J., & Bühlhoff, H.H. (November, 2007). "Visualization and (Mis)Perceptions in Virtual Reality." *Tagungsband 10. Workshop Sichtsysteme, 10-14. (Eds.) Möller, R. Shaker, Aachen, Germany*
- Campos, J. L., Butler, J.S., Mohler, B.J., & Bühlhoff, H.H. (July, 2007). "The contributions of visual flow and locomotor cues to walked distance estimation in a virtual environment." *Proceedings of the 4th Symposium on Applied Perception in Graphics and Visualization, 146*, ACM Press, New York, NY, USA
- Mohler, B.J., Campos, J.L., Weyel, M., & Bühlhoff, H.H. (July, 2007). "Gait parameters while walking in a head-mounted display virtual environment and the real world." *Eurographics*, 85-88. Weimer, Germany.

- Zhou, L., Yan, J.J., Liu, Q., Li, H., Xie, C.X., Wang, Y.H., Campos, J.L., & Sun, H-J. (July, 2007). "Visual and Auditory Information Specifying an Impending Collision of an Approaching Object." *12th International Conference on Human-Computer Interaction*, China.

Conference Talks

- Advani, S., Potter, M., Fernie, G. and Campos, J.L (2011). CEAL: Simulation technology applied to rehabilitation research. *Advances in Neurorehabilitation*. Toronto, June, 2011
- Campos, J.L. and Philip, D. (November, 2010). Computers, Rehabilitation and Bioengineering: Introducing the iDAPT Lab Outreach Program. *Educational Computing Organization of Canada Conference*, Toronto, Ontario.
- Campos, J.L., Butler, J.S., Mohler, B.J. & Bühlhoff, H.H. (July, 2008). Visual, proprioceptive, and inertial cue-weighting in travelled distance perception. *International Congress of Psychology*, Berlin, Germany
- Butler, J. S., Campos, J.L., & Bühlhoff, H.H (August, 2008). The robust nature of visual - vestibular combination for heading. *European Conference on Vision Perception*, Utrecht, Netherlands
- Kersten, C., Campos, J.L., Chan, G. S. W., Collins-Pallet, S., Lee, T. D., & Lyons, J. (May, 2005). Investigating the effects of spatial location of an auditory stimulus on performance of a driving task. *Southwestern Ontario Psychomotor Behaviour Conference*. Hamilton, Ontario
- Campos, J.L., Chiong, B., Chan, G.S.W., & Sun, H-J. (August, 2004). Cue weighting in the processing of egocentric distance. *International Journal of Psychology*, 39 (5-6), 547-548.
- Chan, G.S.W., Campos, J.L., & Sun, H-J. (August, 2004). Active navigation and the representation of spatial layouts. *International Journal of Psychology*, 39 (5-6), 295-295.
- Sun, H-J., Campos, J.L., & Chan, G.S.W. (August, 2004). Multisensory integration in self-motion. *International Journal of Psychology*, 39 (5-6), 67-67.
- Sun, H-J., Campos, J.L., & Chan, G.S.W. (June, 2003). Visual and proprioceptive integration in self-motion. *International Multisensory Research Forum*. Hamilton, Ontario.
- Sun, H-J., Campos, J.L., Chan, G.S.W., Zhang, D-H., & Lee, A. (May, 2003). Multisensory integration in self-motion. *Journal of Vision*, 3(9), 36, 36a.

Conference Posters

- Crichlow, L.R., Fernie, G.R., Campos, J.L. (November, 2011). A full motion manual wheelchair simulator for rehabilitation research. *Toronto Rehab Research Day*, Toronto.

- Taati, B., Gridseth, M., Campos, J.L., Mihailidis, A. (July, 2011). Post-stroke mobility rehabilitation through inducing sensory conflicts in a Virtual Environment. *International Council for Industrial and Applied Mathematics*, Vancouver, BC.
- Crichlow, L.R., Fernie, G.R. and Campos, J.L. (November, 2010). Manual wheelchair simulation with iDAPT's CEAL Simulator. *Toronto Rehabilitation Institute Annual Research Day*, Toronto, Ontario.
- Campos, J.L., Butler, J.B., & Bühlhoff, H.H. (July, 2009). Visual-Vestibular Cue Combination during Temporal Asynchrony. *International Multisensory Research Forum*, New York, New York.
- Campos, J.L., Butler, J.B., & Bühlhoff, H.H. (May, 2009). The importance of body-based cues for traveled distance perception. *Journal of Vision*, Naples, Florida.
- Campos, J.L., Advani, S., Holliday, P. & Fernie, G. (May, 2009). The Challenging Environments Assessment Laboratory. Falls and Mobility Conference, Toronto, Ontario.
- Campos, J.L., Butler, J.B., & Bühlhoff, H.H. (July, 2008). Multimodal integration in the estimation of walked distances. *International Multisensory Research Forum*, Hamburg, Germany.
- Nusseck, H-G., Teufel, H.J., Campos, J.L., & Bühlhoff, H.H. (July, 2008). The impact of gravito-inertial cues on the perception of lateral self-motion. *International Multisensory Research Forum*, Hamburg, Germany.
- Campos, J.L., Butler, J.S., Mohler, B.J. & Bühlhoff, H.H. (July, 2008). Visual, proprioceptive, and inertial cue-weighting in travelled distance perception. *Cyberwalk Conference on Locomotion in Virtual Environments*, Tübingen, Germany.
- Campos, J.L., Siegle, J., Mohler, B.J., Loomis, J.M. and Bühlhoff, H.H. (May, 2008) Imagined self-motion differs from perceived self-motion. *Journal of Vision*, Naples, Florida.
- Siegle, J., Campos J.L., Mohler, B.J., Bühlhoff, H.H., & Loomis, J.M. (May, 2008). High-precision capture of perceived self-velocity during passive translations. *Journal of Vision*, Naples, Florida.
- Reimann, M., Beykirch, K., Campos, J.L., Butler, J.S., & Bühlhoff, H.H. (July, 2008). Using inertial information alone to estimate linear self-displacement with varying durations of constant velocity. *International Journal of Psychology*, Berlin, Germany
- Campos, J.L., Freitas, P., Turner, E., Wong, M., & Sun, H-J. (May, 2007). The effects of optical magnification/minimization on distance estimation by stationary and Walking Observers." *Journal of Vision*, 7(9), 1028, 1028a.
- Yan, J. J., Zhou, L., Xie, C.X., Campos, J.L., & Sun, H-J. (May, 2007). "Visual and Auditory Processing of Distance and the Time-To-Collision of an Approaching Object." *Journal of Vision*, 7(9), 754, 754a.

- Butler, J.S., MacNeilage, P., Campos, J.L., & Bühlhoff, H.H. (August, 2007). "Optic flow velocity profiles affect heading and speed discrimination." *European Conference on Visual Perception*. Arezzo, Italy
- Campos, J. L., Towns, A. M., & Sun, H-J. (November, 2006). "Cue-weighting is affected by the history of cue relations across trials." *Psychonomics*, Houston, Texas.
- Campos, J. L., Brucker, A., Vucetic, Z., Sun, H-J. (May, 2006). "The effects of optical compression/magnification on distance estimation." *Journal of Vision*, 6(6), 727, 727a.
- Wu, L., Zhao, H., Lui, Q., Campos, J. L., & Sun, H-J. (May, 2006). "Effect of duration perception on the perception of traversed distance." *Journal of Vision*, 6(6), 146, 146a.
- Campos, J. L., Hsiao, C., Chan, G. S. W., & Sun, H-J. (May, 2005). "The influence of vision on the estimation of walked distances." *Journal of Vision*, 5(8), 305, 305a.
- Chan, G. S. W., Zavodni, L., Campos, J. L., Kok, Y-W., & Sun, H-J. (May, 2005). "Spatial updating and spatial properties in scene recognition." *Journal of Vision*, 5(8), 62, 62a.
- Campos, J.L., Dickson, J-L., Chan, G.S.W., & Sun, H-J. (2004, May). "Dissociation between visual perception and visually-directed action in locomotion." *Journal of Vision*, 4(8), 810, 810a.
- Chan, G.S.W., Campos J.L., Chiong, B., & Sun, H-J. (2004, May). "Cue weighting in distance estimation in a natural environment revealed through discrepant learning conditions." *Journal of Vision*, 4(8), 379, 379a.
- Sun, H-J., Campos J.L., Ellenor, J., & Chan, G.S.W. (2004, May). "Visual and proprioceptive interactions in the reproduction of distance travelled." *Journal of Vision*, 4(8), 706, 706a.
- Campos, J.L., Young, M.E., Chan, G.S.W., Ellard, C., & Sun, H-J. (2003, June). "Cue calibration in the processing of egocentric distance." *Canadian Society for Brain, Behaviour and Cognitive Science Conference*. Hamilton, Ontario.)
- Chan, G.S.W., Campos, J.L., & Sun, H-J. (2003, June). "Nonvisual updating and the formation of spatial representations." *Canadian Society for Brain, Behaviour and Cognitive Science Conference*. Hamilton, Ontario.
- Chun, S., Campos, J.L., Chan, G.S.W., Becker, S., Burgess, N., & Sun, H-J. (2003, June). "Viewpoint dependency in the perception of multi-object layouts." *Canadian Society for Brain, Behaviour and Cognitive Science Conference*. Hamilton, Ontario.
- Lee, A., Campos, J.L., Chan, G.S.W., & Sun, H-J. (2003, June). "Visual and proprioceptive integration in speed estimation during self-motion." *Canadian Society for Brain, Behaviour and Cognitive Science Conference*. Hamilton, Ontario.

- Campos, J.L., Young, M.E., Chan, G.S.W., Zhang, D-H., Ellard, C., & Sun, H-J. (2003, May). "The contributions of nonvisual cues, static visual cues, and optic flow in distance estimation." *Journal of Vision*, 3(9), 781, 781a.
- Chan, G.S.W., Campos, J.L., & Sun, H-J. (2003, May). "Spatial representations obtained through map learning and through navigation in real and virtual environments." *Journal of Vision*, 3(9), 486, 486a.
- Sun, H-J., Campos, J.L., Strode, K., & Jones, N. (2002, May). "Estimation of traveled distance in a virtual environment." *Journal of Vision*, 2(7), 629, 629a

Invited Talks

- Campos, J.L. (October, 2011). McMaster University, Kinesiology Department, Hosts: Tim Lee, Jim Lyons
- Campos, J.L (March, 2011). Hospital for Sick Children, Department of Otolaryngology, Host: Drs. Sharon Cushing and Karen Gordon
- Campos, J.L (February, 2011). University of Toronto, Mississauga. Department of Psychology, Colloquium. Host: Dr. Elizabeth Johnson
- Campos, J.L (October, 2010). University of Toronto. Faculty of Physical Education and Health. Host: Dr. Tim Welsh
- Campos, J.L. (March, 2010). University of Toronto, Scarborough Campus. Host: Dr. John Kennedy
- Campos, J.L. (March, 2010). Guest lecture in the course, *Auditory cognitive science and speech communication*. Instructed by: Dr. Kathy Pichora-Fuller
- Campos, J.L. (March, 2010). WIDEN (Workshop for Inter-Discipline Exchange and Novelty). Special seminar on movement. Graduate House, University of Toronto.
- Campos, J.L. (February, 2010). University of Toronto, St. George Campus, Ebbinghaus Empire Lecture Series,
- Campos, J.L. (November, 2009). York University, Centre for Vision Research. Host: Dr. Laurence Harris
- Campos, J.L (December, 2009). Multisensory self-motion perception. Toronto Rehabilitation Institute. Cognition Team Meeting. Host: Dr. Robin Green
- Campos, J.L (September, 2009). Toronto Rehabilitation Institute. Communication Team Meeting. Host: Dr. Elizabeth Rochon
- Campos, J.L. (October, 2009). Multisensory self-motion perception in Real and Virtual Environments." Wilfred Laurier University. Host: Michael Cinelli and Quincy Almeida

- Campos, J.L. (May, 2009). Toronto Rehabilitation Institute. Intelligent Assistive Technology and Systems Lab. Host: Dr. Alex Mihailidis
- Campos, J.L. (December, 2008). Julius Bernstein Center for Computational Neuroscience, Ludwig-Maximilians-Universität München. Host: Stefan Glasauer
- Campos, J.L. (January, 2008). University of Münster, Germany. Host: Markus Lappe
- Campos, J.L. (January, 2008). University of Waterloo. Host: Colin Ellard
- Campos, J.L., Siegle, J., Mohler, B., Loomis, J.M. (October, 2007). Max Planck Institute for Biological Cybernetics Colloquium, Tübingen, Germany
- Campos, J. L. (July, 2007). 10th Tübinger Wahrnehmungskonferenz, Tübingen, Germany
- Campos, J.L. (February, 2007). Max Planck Institute for Biological Cybernetics, Tübingen, Germany

AWARDS AND HONOURS

Academic Awards, Scholarships and Bursaries

- Drummond Foundation Grant (2012 – 2014)
- Max Planck Institute Post-Doctoral Fellowship (2007 – 2009)
- Postgraduate Scholarship (Doctoral) from the Natural Sciences and Engineering Research Council of Canada (NSERC: 2004-2006)
- Ontario Graduate Scholarship (OGS: declined, 2004-2005)
- McMaster University Psychology Department's Graduate Scholarship (2001-2003)
- McMaster Graduate Student Association Travel Bursary (2003, 2005)
- McMaster Psychology Department Travel Bursary (2001-2006)
- British Oxygen Company Scholarship for Academic Excellence (1997)

Teaching Award

- *Council of Canadian Department's of Psychology Award for Teaching Assistantship Excellence* (2003). Based on nominations from the Chairs of Psychology Departments across Canada, this council selects recipients nation-wide.

Community Service Awards

- *McMaster Graduate Student Association Honours Society*: A Distinguished Service Award awarded to one graduate student university wide each year for excellence in graduate research and community contributions (2004)
- *McMaster's Let's Talk Science Volunteer Award* for Outstanding Contributions (2002 & 2004)

TEACHING EXPERIENCE

Instructor

2004 Fall: Neuroscience Laboratory, McMaster University

2011 Winter: Kinesiology 714: Special Populations, McMaster University

Teaching Assistant

2006 Winter: General Experimental Laboratory, McMaster University

2006 Fall: Neuroscience Laboratory, McMaster University

2005 Winter: Neuroscience Laboratory, McMaster University

2005 Fall: Neuroscience Laboratory, McMaster University

2004 Winter: Neuroscience Laboratory, McMaster University

2003 Fall: Neuroscience Laboratory, McMaster University

2003 Winter: Abnormal Psychology II, McMaster University

2002 Fall: Neuroscience Laboratory, McMaster University

2002 Winter: Neuroscience Laboratory, McMaster University

2001 Fall: Neuroscience Laboratory, McMaster University

2001 Winter: Behavioural Basis of Neuroscience I, University of Guelph

2000 Fall: Behavioural Basis of Neuroscience I, University of Guelph

Undergraduate Supervision

I have co-supervised over 25 undergraduate thesis and independent project students within my laboratory at McMaster. At the MPI I supervised two students; one student who is now completing a PhD at MIT and one who is now completing a PhD at EPFL in Switzerland. I have co-supervised six undergraduate students in the Science Education program, and four undergraduates in the Department of Psychology at the University of Toronto and one PhD student in the Department of Rehabilitation Sciences.

Graduate Advisory Committees

I currently serve on a graduate committee for an MSc student in the Institute for Biomaterials and Biomedical Engineering at the University of Toronto.

COMMITTEE INVOLVEMENT

University/Institute-wide Contributions

- *Toronto Rehab's Challenging Environment Assessment Laboratory (CEAL) Chief Scientist* (April 2009-current): liaison for scientists wishing to use these state-of-the-art facilities including; provision of tours for small and large (100+) groups, assistance with grant

preparation, development of invoicing and quoting system, development of online scheduling system, organization of interdisciplinary themed research teams, preparation and distribution of regular newsletters, presenting to local, national and international groups, interacting with clinicians interested in research.

- *Toronto Rehab Policies and Procedures Committee (September 2010 – current)*
- *iDAPT Student Outreach Program Co-Director (2010-current)*: Develop innovative science outreach activity materials linking iDAPT research to the Ontario curriculum. This has led to multi-media instructional materials and on-site lab tours and activities. We have coordinated and lead outreach activities for over 400 elementary, secondary, and post-secondary students in the past year alone.
- *“Block Practikum” co-organizer and project supervisor (2007, 2008)*: Each year local undergraduate students in programs such as Biology and Psychology come to the MPI for several weeks to conduct small research projects. During this time they learn about how to conduct literature searches and interpret journal articles, plan and run experiments, analyse data and write scientific papers.
- *Science and the Media Co-organizer (November, 2005)*: A one-time workshop in which renowned science journalist and the host of the Discovery Channel’s *Daily Planet Jay Ingram* provided young scientists with insights into how to effectively communicate their research to the media and the general public.
- *McMaster University Teaching Assistant Orientation Day – Invited Guest Speaker (September, 2005)*: A day of activities providing new graduate students with skills related to valuable teaching strategies, effective scientific communication, and balancing research with other commitments.
- *May at Mac Representative (May, 2003, 2004, 2005)*: McMaster's annual Open House offers visitors an opportunity to visit the university, including the Psychology department and to attend demonstrations, lectures, and tours
- *Faculty of Science Accelerated Student Workshop Volunteer and Organizer (May 2003, 2004, 2006)*: An event providing accelerated grade 11 students with the opportunity to become exposed to the areas of psychology and neuroscience

Scientific Community Contributions

- *MPI Workshop on Effective Scientific Communication - Invited Guest Speaker (August, 2008)*
- *TWK Spatial Cognition Symposium Co-organizer (July, 2007)*: Titled “The Active Observer in Real and Simulated Spaces”, the goal of this Symposium was to bring together researchers interested in basic perception/cognition research and those interested in applied perception and graphics in visualization. The invited speakers included Dennis Proffitt, Mark May, Roy Ruddle, Jennifer Campos and Jan Wiener

- *Organizational Committee Member* for the Annual Meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science (BBCS) (June 2003, Hamilton, Ontario).
- *Organizational Committee Member* for the Annual International Multisensory Research Forum (IMRF) (June 2003, Hamilton, Ontario).

Departmental Contributions

- *Girl's Day volunteer (2007, 2008)*: each year local high school girls interested in pursuing an education/career in science and/or engineering visit the MPI to learn more about research and the scientists conducting the research.
- *McMaster University, Psychology Department In-House Conference Co-organizer* (June, 2004): Conference organized to showcase the work of graduate students within the Psychology Department.
- *Psychology Department Colloquium Committee Member* (2003-2005)

Community Outreach

- *iDAPT Student Outreach Program Co-Director* (2010-current): Working with a team to develop innovative and inspiring science outreach activity materials to link the research being conducted at iDAPT, a world-class research facility, with the Ontario curriculum and evaluating the value and impact of these initiatives. This has led to multi-media instructional materials, printed classroom materials and on-site lab tours and activities. We have coordinated and lead outreach activities for over 400 elementary, secondary, and post-secondary students in the past year alone.
- *McMaster University, Let's Talk Science Program's All Science Challenge Co-founder and Co-organizer* (May, 2005, 2006): Based on my original concept, this event was designed to promote science at the elementary school level. Students from grades 6-8 travel to the university to compete by answering science-related trivia questions. This is now a national event held at over 11 universities each year.
- *Let's Talk Science Program Volunteer and Organizing Committee Member* (2001-2007). LTS is an NSERC funded organization whose goal is to promote science literacy at all levels of the public by pairing schools with graduate student volunteers.
- *Annual McMaster Brain Bee Volunteer and Co-Organizer* (2003-2006): Featured at the Society for Neurosciences Annual Meeting and modeled after a spelling bee, in this event high schools students from grades 9 through 12 compete by answering questions about the brain and neuroscience

MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

- Vision Sciences Society
- International Multisensory Research Forum
- Spatial Intelligence and Learning Centre (SILC) – Spatial Network Member

AD-HOC JOURNAL REVIEWER

- Perception
- Journal of Vision
- Presence, Teleoperators and Virtual Environments
- Attention, Perception and Psychophysics
- European Journal of Neuroscience
- Journal of Experimental Psychology: Learning, Memory and Cognition
- SIGGRAPH
- ACM Transactions on Human-Computer Interaction
- ACM Transactions on Applied Perception
- Seeing and Perceiving
- Applied Perception in Graphics and Visualization
- Journal of American Aging Association

SELECTED MEDIA COVERAGE

Toronto Star

<http://www.thestar.com/living/article/1087614--why-do-we-fall-toronto-lab-mimics-challenges-of-age-disability-disease?bn=1>

National Post

<http://www.nationalpost.com/news/Virtual+danger/5716743/story.html>

Global National

<http://www.globalnews.ca/video/groundbreaking+safety+lab+opens+in+canada/video.html?v=2168157081&p=1&s=dd#health>

CTV News

<http://www.ctv.ca/CTVNews/TopStories/20111116/toronto-rehab-winter-lab-111116/>

CBC

<http://www.cbc.ca/news/health/story/2011/11/16/motion-simulation-falls.html>

Discovery Channel's Daily Planet

<http://watch.discoverychannel.ca/daily-planet/november-2011/daily-planet---november-16-2011/#clip569505>

The Space Network

<http://www.spacecast.com/InnerSPACE.aspx>