

CURRICULUM VITAE
DR. JOAN N. VICKERS
February 2017

ACADEMIC POSITION

Professor, Faculty of Kinesiology
Director, Neuro-Motor Psychology Laboratory
University of Calgary,
Calgary, Alberta, Canada. T2N 1N4

AREAS OF EXPERTISE

Cognitive neuroscience, vision, gaze, eye tracking, motor learning, motor control, quiet eye, quiet eye training, decision making, decision training

CONTACT

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EDUCATION

1984 PhD, University British Columbia (Multi-disciplinary: Cognitive Psychology, Human Kinetics, Educational Psychology)
1976 Masters of Science, Faculty of Education, University of Calgary
(Interdisciplinary: Physical Education, Psychology, Education Curriculum & Instruction)
1968 Certified Teacher Level 5, Province of Alberta
1966 Certified Teacher Level 4, Province of New Brunswick
1966 Bachelors of Physical Education, University of New Brunswick

ACADEMIC APPOINTMENTS

1994 to present: Professor, Faculty of Kinesiology, University of Calgary
1987 to present: Founder & Director, Neuro-Motor Psychology Laboratory, Faculty of Kinesiology, University of Calgary
1994-2012: Instructor, National Coaching Institute, Calgary
1984-1991: Associate Professor, Faculty of Physical Education, University of Calgary
1980-1984: Lecturer (part-time), School of Human Kinetics, UBC
1975-1980: Instructor and Women's Athletic Director, University of Calgary
1973-1974: GTA, Faculty of Education, Communication 101, University of Calgary
1970-1973: Substitute Teacher (all subjects), Leduc and Wetaskiwin Schools, AB

1968-1970: High School Teacher (Social Studies and Physical Education), Queen Elizabeth High School, Calgary, AB.

1966-1968: Women's Athletic Director, Mount Allison University, Sackville, NB

PRIMARY AREA OF RESEARCH

My research program investigates the role of vision and cognition in the learning and control of complex sport, law enforcement, medical and child development skills. The major discoveries of my research program are the quiet eye and quiet eye training. The quiet eye (QE) is measured with a light mobile eye tracker that is coupled to an external motor camera or cameras. The QE is defined as the final fixation or tracking gaze that is located on a specific location or object in the motor task space within 3° of visual angle (or less) for a minimum of 100 ms. The onset of the quiet eye occurs prior to the initiation of a critical phase of the movement and the offset occurs when the gaze moves off the location by more than 3° of visual angle (or less) for a minimum of 100 ms. Theoretically, the QE represents the time needed to organize the neural networks underlying the control of movements. The QE of elite performers is typically earlier and longer than for non-elite, signalling the use of superior anticipation and focus prior to performing critical phases of the action. QE training studies have proven to be effective in significantly improving motor performance in golf, basketball, surgical knot tying, typical and DCD children's throw and catch, volleyball, soccer and other motor tasks.

KEYNOTES/HONORS

- 2016 Keynote Address, The Wingate Congress of Exercise and Sport Sciences, Netanya, Israel,
- June 03.
- 2016 Keynote Presentation, Swiss Society of Sport Science (SGS) Conference, Berne, Switzerland, Friday, February 19.
- 2015 Senior Lecture, Invited Presentation, North American Society For the Psychology of Sport and Physical Activity (NASPSPA), Portland, Oregon, June 05.
- 2015 Invited Speaker: Quiet Eye Training. Special Symposium. Presence in Performance: Strategies for Achieving Excellence in Sport, Dance and Everyday Life. Pomona College, Department of Dance and Theatre, Claremont, CA, January 23.
- 2014 Surgery Research Prize, Cumming School of Medicine, University of Calgary, January
- 2014-2017, Appointed Visiting Professor, Institute for Performance Research, Manchester Metropolitan University (MMU), Cheshire, Crewe, UK
- 2014 Invited Speaker: Quiet Eye Training; Current and Future Directions, Department of Sport and Exercise Science & Institute for Performance Research, Manchester Metropolitan University (MMU), Cheshire, Crewe, UK
- 2014-2015 Symposium Convener, The Quiet Eye As an Objective Measure of Situated Cognition, Scientific Committee of the 6th International Conference on Spatial Cognition (ICSC 2015), Rome, Italy, September 7-11.

- 2014 Keynote Speaker: Quiet Eye Training; Current and Future Directions. XX National Congress of Italian Association of Sport Psychology [Associazione Italiana di Psicologia dello Sport, AIPS], Rovereto (Trento), Italy, May 24.
- 2012 Tied First Prize Prize, 11th General Surgery Day Award, Best Research Study: Harvey, A.Snelgrove, R., Scott, M., Morrison, S. & Vickers, JN. Experience Differences In Fixation Duration During Identification and Dissection of the Recurrent Laryngeal Nerve. January 20, Hyatt Regency, Calgary.
- 2006-2012 Advisory Editor, Cognitive Processing, International Quarterly of Cognitive Science, Springer Publishing.
- 2012 Keynote Address: Vickers, JN (2012). Neuroscience of golf putting. World Congress of Science in Golf, Phoenix, AZ, March 12
- 2012 Keynote Address: Vickers, JN. The Quiet Eye. Academic Sports Vision Conference, Contact Lens Association of Ophthalmologists (CLAO), LasVegas, Nevada, February 29.
- 2009 Scientific Member, International Spatial Cognition Committee & Convener: International Symposium Gaze And Cognitive Control In Motor Performance, Rome, Italy, Sept.
- 2009 Keynote Speaker, Special Session, APA Division 21: Human Factors In Sport. Gaze And Cognitive Control Processes In Rapid Interceptive Timing Actions. American Psychological Association, August 6-9.
- 2008 Think Tank Member: The Centre for Interdisciplinary Research (ZIF) Mind and Motion: The Bi-Directional Link Between Thought and Action. May 29-31, 2008. Zentrum fir interdisziplinare Forchung. Universitat Bielefeld, Germany.
- 2008 Special Guest Speaker, The Influence Of Quiet Eye Duration And Decision Training On Sports Performance, Japanese Sport Psychology Association Conference, Nygoya, Japan, November 16.
- 2006 Keynote: Perceptual & Visual Decision Making In Sport: Decision & Quiet Eye Training For Coaches & Athletes, Spanish Olympic Coaches Conference, Madrid, November 10.
- 2006
- Keynote Address: The Vision-In-Action Paradigm: Evolution and Future Directions, Spanish Motor Learning and Control Conference, November 13, 2006
- 2004 Keynote Address: 10th Anniversary Korean Society of Sport and Physical Education (KSSPE), Cheong-Ju, Korea.
- 2000 Visiting Professor, Faculté des Sciences du Sport de Marseille, France
- 1998 Invited Academic of the Year, Department of Sport Science, Chinese University of Hong, Hong, Hong Kong

- 1996 Visiting Professor, Universidade Estadual Paulista, Insitiuto de Education, Rio Claro, Brazil.
- 1996 Chairman's Award: Excellence in Psychological Research in Sport Science, International Olympic Committee (IOC). Atlanta, Georgia.
- 1991 Elected Member: American Academy of Kinesiology
- 1985 Young Scientist of the Year, Canadian Society of Psychomotor Learning and Sport Psychology.

PEER REVIEWED PUBLICATIONS Journal Articles, Books, Book Chapters

1. Wood, G., Miles, C., Coyles, G., Alizadehkhayat, O., Vine, S.J., Vickers, J.N., Wilson, M.R. (in press). A randomized controlled trial of a group-based gaze training intervention for children with Developmental Coordination Disorder. PLOS 1.
2. Vickers, J. N. (2016). The Quiet Eye: Reply to sixteen commentaries. *Current Issues in Sport Science*, 1:118. doi: 10.15203/CISS_2016.118
3. Vickers, J. N, Causer, J., Stuart, M., Little, E., Dukelow, S., LaVangie, M., Nigg, S., Arsenault, G., Morton, B., Scott, M. and Emery, C. (2016). Effect of the Look-Up Line on the Gaze and Head Orientation of Ice Hockey Players. *European Journal of Sport Science*, Epub ahead of print. 10.1080/17461391.2015.1075595
4. Vickers, J. N. (2016). The Quiet Eye: Origins, Controversies, and Future Directions. *Kinesiology Review*, 2016, 5, 119-128
5. Vickers, J. N. (2016). Origins and current issues in Quiet Eye research. *Current Issues in Sport Science*, 1:101. doi: 10.15203/CISS_2016.101
6. Panchuk, D., Vickers, J, N, & Hopkins, W. G. (2016): Quiet eye predicts goal-tender success in deflected ice hockey shots , *European Journal of Sport Science*, DOI: 10.1080/17461391.2016.1156160
7. Vickers, Joan (2016) The Quiet Eye: Origin, Controversies and What's Next? "Betnua" Movement: *Journal of Physical Education & Sport Sciences* (<https://www.jstor.org/journal/movement>).
8. Vickers J, Harvey, A, Snelgrove, R, Stewart, A, MacKenzie C, & Arsenault, G. (2015). Expert-novice differences in quiet eye duration during surgical knot tying. *International Journal of Sports Psychology*. 46: 528-541 doi: 10.7352/IJSP 2015.46.528
9. Miles, C. A. L., Wood, G., Vine, S. J., Vickers, J. N., & Wilson, M. R. (2015). Quiet eye training aids the long-term learning of throwing and catching in chil-

- dren: Preliminary evidence for a predictive control strategy. *European Journal of Sport Science*, Epub ahead of print. 10.1080/17461391.2015.1122093
10. Miles, C.A.L., Wood, G., Vine, S.J., Vickers, J.N. & Wilson, M.R. (2015). Quiet eye training facilitates catching performance in children with Developmental Coordination Disorder, *Research in Developmental Disabilities*. 40, 31-41.
 11. Panchuk, D, Vine, S, & Vickers J. (2015). Eye tracking methods in sport expertise. *Handbook of Sport Expertise*, Eds. Farrow, D. & Baker, J. London: Routledge/Taylor and Francis
 12. Wilson, M, Causer, J, & Vickers, J. (2015). Aiming for excellence: the quiet eye as a characteristic of expertise. *Handbook of Sport Expertise*, Eds. Baker, J, & Farrow, D. pp, 22-37. London: Routledge/Taylor and Francis
 13. Causer, J, Harvey, A, Snelgrove, R, Arsenault, G. & Vickers, JN (2014). Quiet eye training improves surgical knot tying more than traditional technical training: A randomized controlled study. *American Journal Surgery*. 208, 171-177.
 14. Causer, J, Vickers, JN, Snelgrove R, Arsenault, Harvey, A (2014). Performing under pressure: Quiet eye training improves surgical knot-tying performance. *Surgery*. 1089-1096.
 15. Miles, CAL, Vine, SJ, Wood , G, Vickers, JN, Wilson, MR (2014) Quiet eye training improves throw and catch performance in children. *Psychology of Sport & Exercise*. 15, 511-515.
 16. Vickers, JN (2014). Eye movements/gaze. In Eds. Abernethy, B. & Tennenbaum, G. *Encyclopedia of Sport and Exercise Psychology*. 280-282. London: Sage Publications.
 17. Wilson, MR, Miles, AL, Vine, SJ, & JN. Vickers (2013). Quiet eye distinguishes children of high and low motor coordination abilities. *Medicine & Science in Sport and Exercise*. Vol. 45, No. 6, 1144–1151.
 18. Panchuk, D, & Vickers, JN (2013). Expert visual perception: Why having a quiet eye matters in sport. In D Farrow, J Baker, C MacMahon (Eds.), *Developing Sport Expertise: Researchers and Coaches Put Theory Into Practice (2nd ed)*, pp 193-207. Routledge: London. <http://www.routledge.com/search/>
 19. Harvey A, Vickers JN, Snelgrove R, Scott MF, Morrison S. (2014). Expertise differences in performance and quiet eye duration during identification and dissection of the recurrent laryngeal nerve. *American Journal Surgery*, 207, 2, 187-193.
 20. Vickers, J. N. & Lewinski, W. (2012). Performing under pressure: Gaze, decision-making and shooting performance of elite and rookie police officers. *Human Movement Science*, 31, 101-117.
 21. Vickers, JN (2012). Neuroscience of the quiet eye in golf putting. *International Journal of Golf Science*, 1, 2-9.

22. Causer, J., Janelle, CM, Vickers, JN, Williams, AM (2012). Perceptual expertise. What can be trained? Eds. Hodges, N. & Williams, AM. *Skill Acquisition in Sport. Research, Theory and Practice*. pp. 306-324. London: Routledge
23. Vickers, J. N. (2011). Mind over muscle: The role of gaze control, spatial cognition and the quiet eye in motor expertise. *Cognitive Processing*, 12, 3, 219-222.
24. Piras, A. & Vickers, J. N. (2011). The effect of fixation transitions on quiet eye duration and performance in the soccer penalty kick. *Cognitive Processing*. 12, 3, 245-255.
25. Panchuk, D. & Vickers, J. N. (2011). Effects of narrowing the base of support on the gait, gaze and quiet eye of elite ballet dancers and controls. *Cognitive Processing*. 12, 3, 267-276.
26. Vickers, J. N. (2011). Skill acquisition: designing optimal learning environments, Chapter 14, pp. 191-206. (Eds) Collins, D., Button, A., Richards, H., *Performance Psychology: A Practitioners Guide*, London, UK: Churchill Livingstone Elsevier.
27. Vickers, J. N. (2011). A Commentary on *Discovering Golf's Innermost Truths: A New Approach to Teaching The Game*. *Annual Review of Golf Coaching 2010*. ISBN: 978 1907132 261.
28. Panchuk, D. & Vickers, J. N. (2009). Using spatial occlusion to explore the control strategies used in rapid interceptive actions: predictive or prospective control? *Journal of Sport Sciences*. 27(12): 1249–1260.
29. Vickers, J. N. (2009). Advances in coupling perception and action: The quiet eye as a bidirectional link between gaze, attention and action. Raab, M., Johnson, J. & Heekeren, H. (Eds). *Progress in Brain Research*. Elsevier, 174, 279-288.
30. Zentgraf, K., Green, N., Munzert, J., Schack, T., Tenenbaum, G., Vickers, J.N., Weigelt, M., Wolfensteller, U. & Heekeren, H. (2009). How are actions physically implemented? Raab, M., Johnson, J. & Heekeren, H. (Eds) *Progress in Brain Research*, 174, Elsevier, Amsterdam. 303-318.
31. Vickers, J. N. (2009). The quiet eye as a factor in athlete decision-making. (Eds) Duarte, A., Ripoll, H., & Raab, M. *Perspectives on cognition and action in sport*. New York: NOVA Publishers. 978-1-60692-390-0
32. Vickers, J. N. & Williams. A. M. (2007). Performing under pressure: The interactive effects of physiological arousal, cognitive anxiety and gaze control in elite biathlon shooters. *Journal of Motor Behavior*. 39, 5, 381-394.
33. Vickers, J. N. (2007). *Perception, cognition and decision training: The quiet eye in action*. Champaign, IL., Human Kinetics Publishers.
34. Vickers, J. N. (2006). Gaze of Olympic speed skaters while skating at full speed on a regulation Oval. *Perception-action coupling in a dynamic performance environment*. *Cognitive Processing*, 7, 1, 102-105.

35. Panchuk, D. and Vickers J. N. (2006). Gaze behaviours of goaltenders under spatial temporal constraints. *Human Movement Science*. 25, 6, 733-752.
36. Chambers, K. L. and Vickers, J. N. (2006). The effect of bandwidth feedback and questioning on competitive swim performance. *The Sport Psychologist*, 20, 2, 184-197.
37. McPherson, S. & Vickers, J. N. (2004). Cognitive control in motor expertise. *International Journal of Sport and Exercise Psychology*. 2, 274-300.
38. Vickers, J. N., Reeves, M. A., Chambers, K. L., & Martell, S. T. (2004). Decision training: cognitive strategies for enhancing performance. *Skill Acquisition in Sport: Research, Theory and Practice*. Chapter 6 (p. 103-120). (Ed) Williams, A. M., Hodges, N. J. London: Routledge.
39. Martell, S. & Vickers, J.N. (2004). Gaze characteristics of elite and near-elite ice hockey players. *Human Movement Science*. 22, 689-712.
40. Brown, L. & Vickers, J. N. (2004). Temporal judgments, hemispheric equivalence, and inter-hemispheric transfer in adolescents with attention deficit hyperactivity disorder. *Experimental Brain Research*. 154, 1, 76 – 84.
41. Patla, A. & Vickers, J. (2003). How far ahead do we look when required to step on specific locations in the travel path during locomotion? *Experimental Brain Research*, 148: 133-13
42. Vickers, J. N., (2003). Decision Training: An Innovative Approach To Coaching. *Canadian Journal for Women Coaches Online*, <http://www.coach.ca/WOMEN/e/journal/>
43. Rodrigues, S. T., Vickers, J. N. and Williams, A. M. (2002), Head, eye and arm co-ordination in table tennis: An exploratory study. *Journal of Sport Sciences*, 20, 3, 171-186.
44. Vickers, J. N., Rodrigues, S. T. and Brown, L. N. (2002). Gaze pursuit and arm control of adolescent males diagnosed with attention deficit hyperactivity disorder (ADHD) as compared to normal controls: Evidence of dissociation in processing short and long-duration visual information. *Journal of Sport Sciences*. 20, 3, 201-216.
45. Holland, M.A., Patla, A. E. & Vickers, J. N. (2002). “Look where you are going! Gaze behaviour associated with maintaining and changing direction. *Experimental Brain Research*, 143: 221-230.
46. Williams, A. M., Vickers J. N. & Rodrigues, S. T. (2002). The effects of anxiety on visual search, movement kinematics, and performance in table tennis: A test of Eysenck and Calvo's processing efficiency theory, *Journal of Sport and Exercise Psychology*, 24, 4, 438-456.
47. Harle, S. & Vickers, J. N. (2001). Training quiet eye (QE) improves accuracy in the basketball free throw. *The Sport Psychologist*, 15, 289-305.

48. Vickers, J. N., Rodrigues, S. T. & Edworthy, G. (2000). Quiet eye and accuracy in the dart throw. *International Journal of Sports Vision*, 6, 30-36.
49. Vickers, J. N., Livingston, L., Umeris S. & Holden, D. (1999). Decision Training: The effects of complex instruction, variable practice and reduced delayed feedback on the acquisition and transfer of a complex motor skill. *Journal of Sport Sciences*. 17, 357-367.
50. Ota, D. & J. N. Vickers, J. (1999). The effects of variable practice on the retention and transfer of two volleyball skills in male club-level athletes. *International Journal of Volleyball Research*. 1, 1, 18 – 24
51. Patla, A. & J. N. Vickers (1997). When and where do we look as we approach and step over an obstacle in the travel path. *NeuroReport*. Vol 8, No 17, 3661-3665.
52. Vickers, J. N. & Adolphe, R. A. (1997). Gaze behaviour during a ball tracking and aiming skill. *International Journal of Sports Vision*. 4, 1, 18-27.
53. Adolphe R., Vickers, J. N. & LaPlante, G. (1997). The effects of training visual attention on gaze behaviour and accuracy: A pilot study. *International Journal of Sports Vision*. 4, 1, 28-33.
54. Vickers, J. N. (1996a). Visual control when aiming at a far target. *Journal of Experimental Psychology: Human Perception and Performance*. 2, 22, 342-354
55. Vickers, J. N. (1996b). Control of visual attention during the basketball free throw. *American Journal of Sports Medicine*. November. Supplement. 3,1, 93-97.
56. Vickers, J. N. (1996c). Location of fixation, landing position of the ball and accuracy during the free throw. *International Journal of Sports Vision*, 3,1, 54-60.
57. Emes, C., Vickers, J. N. & Livingston, L. (1994). Gaze control of children with high versus low motor proficiency. *Adapted Physical Activity*. Tokyo: Springer-Verlag. 147-154.
58. Vickers, J. N. (1995). A methodology for coupling gaze in action. In B. Bardy, R. Bootsma & Y. Guaird (Eds). *Studies in Perception and Action III*. Hove & London: Lawrence Erlbaum, 367-370.
59. Vickers, J. N. (1995). Gaze control in basketball foul shooting. In J. Findlay, R. Kentridge & R. Walker (Ed). 528-541. *Eye Movements, Processes, Mechanisms and Applications*. Amsterdam: Elsevier Science.
60. Vickers, J. N. (1994). Psychological research in sports pedagogy: Exploring the reversal effect. *Sport Sciences Review Journal*. 3 (1), 28-40.
61. Vickers, J. N. (1995). The reversal effect. In A. Jewett, L. Bain & C. Ennis (Ed). *The Curriculum Process in Physical Education*, 2nd Ed. 348-353. Madison, Wisconsin: Brown & Benchmark.
62. Vickers, J. N. (1993). Toward defining the role of gaze control in complex targeting skills. In D. Brogan, A. Gale & K. Carr (Ed). *Visual Search* 2, 265-286. Bristol, Taylor & Francis.

63. Vickers, J. N. (1993). While Rome Burns: Meeting the challenge of the new reform movement in education. In Ed. J. Rink. *Critical Crossroads*. National Association for Sport and Physical Education, Reston, VA. 47-59.
64. Vickers, J. N. (1992). Gaze control in putting. *Perception*, 21, 117-132.
65. Livingston, L., Sandals, L. & J. N. Vickers. (1992). Monitoring the effect of color on performance in an instructional gaming environment via the analysis of eye movement behavior. *Journal of Research on Computing in Education*. 25, 27-45.
66. Vickers, J. (1992). While Rome burns. Meeting the challenge of the reform movement in education. *Journal of Physical Education, Recreation and Dance*. September, 80-87
67. Vickers, J. (1990). *Instructional Design for Teaching Physical Activity: A Knowledge Structures Approach*. Champaign, IL: Human Kinetics Publishers.
68. Vickers, J. (1988). Knowledge structures of elite-novice gymnasts. *Human Movement Science*. 7, 47-72. North Holland: Elsevier Science.
69. Lashuk, M. & Vickers, J. (1988). The role of objectives in planning physical education programs. *International Journal of Physical Education*. March-April, 8-11
70. Gaines, B. & Vickers, J. (1988). Design considerations for hypermedia systems. *Microcomputers for Information Management* 5 (1): 1-27.
71. Gaines, B. & Vickers, J. (1988). Hypermedia design. *Proceedings of RIAO'88 Conference on User-oriented Content-based Text and Image Handling*, 14-23, Boston.
72. Vickers, J. & Gaines, B. (1988). A comparison of books and hypermedia for knowledge-based sports coaching. *Microcomputers for Information Management* 5 (1): 29-44.
73. Vickers, J. (1987). The role of subject matter in teacher preparation programs in physical education, *Quest*, 39, 174-178.
74. Vickers, J. (1986). The re-sequencing task: Determining expert-novice differences in the organization of a movement sequence. *Research Quarterly for Exercise and Sport*, 57, 3, 260-264.
75. Branda, A. & J. Vickers (1984). The implementation of the Canadian gymnastics development program by direct and indirect teaching methodologies. *CAHPER*, May-June, 50, 5, 21-25.
76. Vickers, J. (1983). The role of expert knowledge structures in an instructional design model for physical education. *Journal of Teaching in Physical Education*, 2, (3), 17-32.
77. Vickers, J. & G. Sinclair (1984) The physical education teaching laboratory: An on-campus theory to practice interface. *Journal of Physical Education, Recreation and Dance*, October, 16-18.
78. Vickers, J. (1980). Amenorrhea, *Coaching Review*, 3, No. 16, 32-36.

79. Vickers, J., M. Lashuk & T. Taerum (1980). Differences in attitude toward the concepts male, female, male athlete, female athlete. *Research Quarterly for Exercise and Sport*, 15, 2, 407-416.

Refereed Abstracts and Posters

1. Miles, C.A.L. (2014, April). Online prediction of children with and without DCD. Paper presented at the British Psychological Society, Expertise and Skill Acquisition Network Annual Meeting, Sheffield Institute of Sport, Sheffield.
2. Miles, C.A.L., Vine, S.J., Wood, G. Vickers, J.N., & Wilson, M.R. (2013, April). Improving catching in children using quiet eye training. British Psychological Society, Expertise and Skill Acquisition Network Annual Meeting, Bisham Abby, England.
3. Miles, C.A.L., Vine, S.J., Vickers, J.N., & Wilson, M.R. (2012, July). Quiet eye distinguishes between children of high and low motor coordination abilities. Paper presented at ICSEMIS British Association of Sport and Exercise Science Conference, Glasgow, Scotland.
4. Miles, C.A.L., Vine, S.J., Vickers, J.N., Wilson, M.R. (2012, December). Quiet eye training of children in catching: A pilot study. Poster presented at Sport and Health Science Postgraduate Conference, University of Exeter, England.
5. Harvey A, Vickers JN, Snelgrove R, Scott MF, Morrison S. (2014). Expertise differences in performance and quiet eye duration during identification and dissection of the recurrent laryngeal nerve. Association of Surgical Education, Orlando, Florida, April 24, 2013
6. Harvey, A., Snelgrove, R., Scott, M, Morrison, S.M. & Vickers, J. N. (2012). Critical Eye Fixations during Identification and Dissection of the Recurrent Laryngeal Nerve. Poster Presentaton, AAES 2012 Annual Meeting, April 29 - May 1, 2012 - Iowa City, IA.
7. Harvey, A., Snelgrove, R., Scott, M, Morrison, S.M. & Vickers, J. N. (2012). Expertise differences in surgical movements, quiet eye duration and performance during identification and dissection of the recurrent laryngeal nerve. North American Society Sport and Physical Activity Conference, June 8-10, 2012 - Honolulu, Hawaii.
8. Vickers, J.N. & Lewinski, W. (2010). Weapon focus of elite and rookie police officers. Abstract, American Psychology-Law Society Conference, March 18-20, 2010, Vancouver.
9. Vickers, J.N. & Lewinski, W. (2009). Police officer's gaze behaviours and shooting performance during a live force on force encounter. Abstract in Proceedings, 4th International Conference of Spatial Cognition. September, Rome, Italy.
10. Panchuk D, & Vickers, J.N. (2009). Quiet eye control strategies in interceptive timing actions (Invited Symposium). International Conference on Spatial Cognition, Rome, Italy. Proceedings in Cognitive Processing, 10(S2), S146.

11. Vickers, JN, Ronsky .J, Ramage B., Panchuk D., Morton B., Gotch, M., Ferber, R., & Robu I. (2006) Gaze Control and COP During Quiet Stance and Lunge Of Ballet Dancers, Normal Controls & ACL-deficient. *Cognitive Processing*, 7, 1, 176.
12. Ramage, B., Gotch, M., Ronsky. J., Vickers, J., Morton, B., Panchuk, D., & Robu, I. (2006). Ankle joint power during lunge in elite ballet dancers, controls, and ACL-deficient subjects. (Proceedings), Canadian Society of Biomechanics.
13. Panchuk, D. and Vickers J. N. (2005). Gaze behaviours of goaltenders under spatial temporal constraints, [Abstract] *Journal of Sport and Exercise Psychology*, 27, p.119.
14. Gotch, M., Ronsky .J, Ramage B., Vickers J., Panchuk D., Morton B. & Robu I. (2005) Lower extremity biomechanics in elite ballet dancers, normals, and ACL deficient subjects while lunging. Abstract, Alberta Biomedical Engineering Conference Proceedings.
15. Vickers J. N., Ronsky J. L., Ramage, B., Morton T.B. & Park S. (2004). Gaze stabilization of balance with and without an ankle foot orthosis: a pilot study. Abstract. Transactions Canadian Society Biomechanics, Halifax.
16. Vickers, J. N., Rodrigues, S. T. & Edworthy, G. (1999). Quiet eye and accuracy in the dart throw. [Abstract]. Abstracts of the International Society of Biomechanics. X011, 819
17. Vickers J, Patla AE (1999). Object and travel gaze fixation during successful and unsuccessful stepping stone task. *Gait & Posture* 9(1): S3.
18. Hatfield, B. D., Hillman, C. H. & Apparies, R. & Vickers J. (1999). Expert performance states: psychophysiological perspectives in efficiency. [Abstract]. *Journal of Exercise and Sport Psychology*, 21, 55
19. Vickers, J, Williams, A. M. Rodrigues, S. T. Hillis, F. and Coyne, G. (1999) Eye movements of elite biathlon shooters during rested and fatigued states. [Abstract]. *Journal of Exercise and Sport Psychology*, 21, 116
20. Rodrigues, S. T., Vickers, J. N. & Williams, A. M. (1999). Two visual systems under temporal pressure in 3-d table tennis. *Journal of Exercise and Sport Psychology*, 21, 91
21. Vickers, J. N. (1998). A Hidden World Revealed: Direct measurement of the visual control of elite motor performers. [Abstract]. *Journal of Exercise and Sport Psychology: Supplement*. p. 49
22. Vickers, J. N. (1998). Vision-in-action (VIA): Direct measurement of eye movements, motor behaviour and ocular function of the moving subject [Abstract]. *Journal of Exercise and Sport Psychology: Supplement*. p. 29
23. Vickers, Joan (1998). Decision training: A new approach to motor skills training that incorporates complex initial instruction, random variable practice and reduced delayed feedback. [Abstract]. *Journal of Exercise and Sport Psychology: Supplement*. p. 86

24. Rodrigues, S.T., Vickers, J. N. (1998). Eye-Hand Coordination in Table Tennis: Preliminary results. University of Calgary. [Abstract]. *Journal of Exercise and Sport Psychology: Supplement* p. 91
25. Morey, R. S. & Vickers, J.N. (1998). The use of the internet to enhance motor skill instruction. [Abstract]. *Journal of Exercise and Sport Psychology: Supplement*. p. 91
26. Ota, D. & Vickers, J. (1998). The effects of variable practice on the retention and transfer of two volleyball skills in male club-level athletes. [Abstract]. *Journal of Exercise and Sport Psychology: Supplement*. p. 132
27. Vickers, J. N. & Adolphe, R. A. (1998) Ball tracking gaze behaviour of elite volleyball players during the serve reception and pass. [Abstract]. *Journal of Exercise and Sport Psychology: Supplement*. p. 119

Non-Refereed Publications and Technical Reports

1. Vickers, JN (2012). Quiet eye characteristics that can save an officer's life. *RCMP Gazette*, Volume 74, 4, 20-22. Ottawa, A Royal Canadian Mounted Police Publication.
2. Vickers, J. N. (2009). Gaze Control and Shooting Performance of Elite and Rookie Police Officers During A Force On Force Encounter. Technical Report to the Force Sciences Institute.
3. Vickers, Joan N. (2008). Quiet Eye Testing and Training of Male and Female Paralympic Athletes in the Basketball Free Throw. Technical Report, Canadian Paralympic Team, Simpson Gymnasium, University of Calgary.
4. Vickers, J. N. (2008). The Influence of Quiet Eye Duration and Decision Training on Sports Performance. Abstract In Proceedings of the Japanese Sport Psychology Association Conference, Nygoya, Japan, November 16.
5. Vickers, Joan N. (2007). Quiet Eye Testing and Training In Biathlon Shooting, Technical Report, Canadian Junior National Team, National Nordic Training Centre, Canmore, AB.
6. Vickers, J. N. (2005). Decision Training Course 1 Certification Workbook: Practice Design, Quiet Eye Solutions, Calgary, AB.
7. Vickers, J. N. (2005). Decision Training Course 2 Certification Workbook: Feedback, Quiet Eye Solutions, Calgary, AB.
8. Vickers, J.N. (2004). The quiet eye: it's the difference between a good putter and a poor one, here's proof. *GolfDigest*, January, 96-101.
9. Vickers, J. N. (2004). Decision training: A new research based approach for improving decision making in sport and physical activity. Proceedings International Physical Education Conference, 10th Anniversary, Cheong-Ju, Korea. 35-82.
10. Vickers, J. N. (2000). Decision Training: A New Approach in Coaching, Vancouver: Coaching Association of British Columbia.

11. Vickers, J. N. (2000). Motor behaviour, control and learning. *Vade Mecum*. 97-104, International Council of Sport Science and Physical Education, Berlin.
12. Vickers, J. N. (2000). Quiet eye in sport. *Dragon Fly: A Magazine For Young Investigators*. Arlington, VA: National Science Teachers Association, 2, 6 – 8
13. Vickers, J. N. (1999). Decision training: A new coaching tool. *Insight: The FA Coaches Association Journal*. 4, 2, 18-20. Hertfordshire, UK: The Football Association.
14. Vickers, J. N. (1996). Eye movements of accurate and inaccurate basketball free throwers. *Sports Vision*. 12, 1, 12-14.
15. Vickers, J. N., Bales, J., Allison, T., Jensen, M., Cluff, M. & Bowman L. (1996) *Decision Training In Free Style Skiing*. National Coaching Institute: Calgary.
16. Vickers, J. N., Bales, J., Davidson, M., Curry, J., Johnson, M. & Rennie T. (1996). *Decision Training In Ice Hockey*, National Coaching Institute: Calgary.
17. Vickers, J. (1991). Look and Launch. *GOLF Magazine*. October.
18. Vickers, J. N., Bales, J., Pike, R., Dolan, C., Lemieux, C. & Ryan G. (1996). *Decision Training In Volleyball*. National Coaching Institute: Calgary.

GRADUATE EDUCATION

1. Supervisory Committee, Charlotte A.L. Miles, PhD (2014), University of Exeter, UK. Title: Improving children's catching using quiet eye training.
2. Supervisory Committee, Charlotte A.L. Miles, MSc (2012). University of Exeter, UK Title: Differences in visuomotor skill in children with high and low movement ability,
3. Supervisory Committee, Member, MSc. 2011, Christie Schmidt. Title: Sensorimotor Integration in Healthy Elderly During Multi-digit Grasping
4. Research Supervisor, PhD, 2010. Alessandro Piras, U of Bologna, Italy. Title: Visual scanning in sports actions: comparison between soccer goalkeepers and judo fighters
5. Supervisor, Steve Martell, PhD, 2010. Faculty of Kinesiology. Title: The optimal quiet eye period and the regulation of visual information in complex-aiming.
6. Supervisory Committee Member. Paulson, Stephanie, MSc 2010. Title: The influence of body-part preprogramming on visual search strategy.
7. Supervisor, Derek Panchuk, PhD, 2008
8. Supervisor, Joshua Nugent, MSc, 2008
9. Visiting Masters Student, Natalia Siqueira, Brazil (2008)
10. Committee Member, MSc. Dana Wheatley, Department of Psychology, U of C
11. External Examiner, Rita Oliviera, PhD, Vrije University, Amsterdam,,
12. Supervisor, Derek Panchuk, MSc, 2004
13. Supervisor, Dan Pittman, MSc, 2004
14. Supervisor, Tania Marshall. Masters Applied Psychology, 2003
15. Supervisor, Kristine Chambers, M.Sc, 2001

16. Supervisor, Ruth Morey, PhD, 2001
17. Supervisor, Sergio Rodrigues, PhD, 2000
18. Committee Member Shawnee Harle, M.Ed, 2000

SERVICE: COMMITTEE MEMBER/EDITOR/REVIEWER/REFEREE

1. 2012 External Referee, Tenure Review. Dr. Paul Ward, Michigan Technological University, USA
2. 2010, Faculty Council, Environmental Design
3. 2006-2011, Member University of Calgary Senate
4. 2011 Tenure Review. Dr. Derek Panchuk, Victoria University, Melbourne, AU
5. 2009, Selection Committee, Endocrine Surgeon, Department of Surgery, Faculty of Medicine, University of Calgary
6. 2008, Review for Promotion to Full Professor, Dr. Richard Van Emmerik, University of Massachusetts.
7. 2009, Scientific Committee Member, 4th International Symposium Spatial Cognition and Action, Rome, September 14-18
8. 2008, Editorial Board, International Journal of Coaching Science
9. Reviewer - Recent
 - Acta Psychologica
 - Attention, Perception and Psychophysics
 - Medicine & Science in Sports & Exercise
 - Consciousness and Cognition
 - Cognitive Processing
 - Emotion
 - Human Movement Science
 - Frontiers of Psychology
 - Journal of Experimental Psychology: Human Perception and Performance
 - Motor Control
 - Hong Kong Competitive Earmarked Research Grant Application Form (CERG1)
 - Journal of Sport and Exercise Psychology.
 - Journal of Motor Behavior
 - Journal of Sports Sciences.
 - International journal of Sports Psychology
 - Psychology of Sport & Exercise.
 - Research Quarterly Exercise and Sport
 - Experimental Brain Research
 - Ergonomics
 - Perceptual Motor Skills.
 - Vision Science

Biomedical Engineering
SSHRC
NSERC
CIHR

CONFERENCE PRESENTATIONS

1. Harvey A., Vickers JN, Snelgrove R, Scott MF, Morrison S. (2013). Expertise differences in performance, quiet eye duration and slowing down during identification and dissection of the recurrent laryngeal nerve. Association of Surgical Education, Orlando, Florida, April 24, 2013. Association of Surgical Education Orlando, Florida, April 24.
2. Vickers, J. N. (2012). Quiet eye and vestibular ocular contributions to speed in elite speedskating. NASPSPA Conference, June 6-9, Honolulu, Hawaii.
3. Harvey, A., Snelgrove, R., Scott, M, Morrison, S, & Vickers, J. N. (2012). Experience Differences In Fixation Durations during Identification and Dissection of the Recurrent Laryngeal Nerve. American Association of Endocrine Surgeons, April 29-May 01, Iowa City, Iowa.
4. Harvey, A, Snelgrove, R., Scott, M., Morrison, S. & Vickers, JN (2012). Experience Differences In Fixation Duration During Identification and Dissection of the Recurrent Laryngeal Nerve. NASPSPA Conference, June 6-9, Honolulu, Hawaii.
5. Harvey, A, Snelgrove, R., Scott, M., Morrison, S. & Vickers, JN (2012). Experience Differences In Fixation Duration During Identification and Dissection of the Recurrent Laryngeal Nerve. 11th General Surgery Day, January 20, 2012, Hyatt, Calgary.
6. Miles, C.A.L., Vine, S.J., Wilson, M.R. & Vickers, J.N. (2011) Differences in Visuomotor Skill in Children with High and Low Movement Ability. British Association of Sport Exercise Sciences. June 10.
7. Piras, A., Scott, M. & Vickers, J. N. (2010). Visuomotor control of soccer goal-tenders in a penalty kick situation, 2nd World Conference on Science and Soccer, Nelson Mandela Metropolitan University, June 8-9, 2010.
9. Vickers, J.N. & Lewinski, B. (2010). Police officer's gaze behaviours and shooting performance during a force on force encounter. Sept. 14-18 4th International Conference on Space and Cognition: Spatial Cognition and Action. Rome, Italy.
10. Vickers, J.N. (2009). Gaze And cognitive control processes in rapid interceptive timing actions, Human Factors in Sport. Special Symposium, APA Division. American Psychological Convention, Toronto, August 09.
11. Panchuk D, & Vickers, JN (2009). Quiet eye control strategies in interceptive timing actions (Invited Symposium). International Conference on Spatial Cognition, Rome, Italy. Proceedings in Cognitive Processing, 10(S2), S146.

12. Vickers, J. N. (2009). Invited Presentation: Quiet Eye Characteristics That Can Save An Officer's Life, Force Science Institute, San Jose, California, June 1.
13. Vickers, J. N. (2008). Invited Presentation: Quiet Eye Characteristics That Can Save An Officer's Life, Force Science Institute, San Jose, California, October 27.
14. Vickers, J. N. (2008) Thank You SCAPPS For Recognizing Gaze Research Long Before It Became Popular. SCAPPS Conference, Canmore, AB, November.
15. Vickers, J. N. (2008). Special Invited Speaker, The Influence Of Quiet Eye Duration And Decision Training On Sports Performance, Japanese Sport Psychology Association Conference, Nygoya, Japan, November 16.
16. Vickers, J. N. (2008). Think Tank Member: The Bi-Directional Link Between Mind And Motion. ZIFF Centre, Beilefeld, Germany, May 27-31.
17. Vickers, J. N. (2007). The Quiet Eye As A Factor In Athlete Decision Making, 12th European Congress of Sports Psychology, FEPSAC 2007, September 4-9, Haldiki, Greece.
18. Vickers, J. N. (2007). The Quiet Eye As A Factor In Athlete Decision-Making. SPIN Summit, Vancouver, BC, September 26, 2007.
19. Vickers, J. N. (2007). The Quiet Eye As A Factor In Athlete Decision-Making. FEP-SAC (European Sport Psychology Conference). Invited Symposium - Judgment & Decision Making in Sport, Greece, September, 2007.
20. Vickers, J. N. (2007). Invited Lecture. Quiet Eye Testing & Training: We Can Help Athletes Make Better Decisions. Research Institute MOVE, Faculty of Human Movement Sciences, Vrije University, Amsterdam, October 30.
21. Vickers, J. N. (2007). The quiet eye as a factor in athlete decision-making. NASPSPA, San Diego, CA, June 7-9, 2007.
22. Vickers, J. N. (2007). Decision training in ice hockey. Andrews Hockey Growth Programs, Charlottetown, PEI.
23. Vickers, J. N. (2007). The quiet eye in ice hockey goaltending and tactics. Andrews Hockey Growth Programs, Charlottetown, PEI.
24. Vickers, J. N. (2007). The quiet eye as a factor in athlete decision-making. NASPSPA, San Diego.
25. Vickers, J. N. (2007). Quiet eye in golf, Alberta Professional Golf Association, Calgary, AB
26. Vickers j. N. (2007). Decision training in golf, Alberta Professional Golf Association, Calgary, AB
27. Vickers J. N. (2006) Keynote Address. Perceptual & visual decision making in sport: decision & quiet eye training for coaches & athletes. Spanish Olympic Coaches Conference, Madrid, November 10, 2006
28. Keynote Address (2006). The Vision-In-Action Paradigm: Evolution and Future Directions, Spanish Motor Learning and Control Conference, November 13, 2006

29. Vickers, J. N. (2006). Gaze control and COP during quiet stance and lunge of ballet dancers, normal controls & ACL-adaptors. International Conference on Spatial Cognition, Sept 12-15, Rome, Italy.
30. Vickers, J. N. (2006). Gaze of Olympic speedskaters skating at full speed on a regulation oval. International Conference on Spatial Cognition, Sept 12-15, Rome, Italy.
31. Vickers, J. N. (2005). The quiet eye: recent research developments. North American Society Of The Psychology Of Sport And Physical Activity (NASPSPA). Clearwater, Florida.
32. Panchuk, D. and Vickers, J. N. (2005). Gaze behaviours of elite goaltenders under spatial temporal constraints (Poster presentation). North American Society Of The Psychology Of Sport And Physical Activity (NASPSPA). Clearwater Beach, FL
33. Vickers, J. N. (2004). Decision training: A new research based approach for improving decision making in sport and physical activity. Keynote Address, 10th Anniversary Korean Society of Sport and Physical Education (KSSPE), Cheong-Ju, Korea.
34. Vickers, J. N. (2004). Eye movements and gaze behaviour research in sport: The importance of a quiet eye. Chou National University, Cheju Island, Korea.
35. Vickers, J. N. (2004). New developments in applied motor learning and eye movements/ gaze behaviour research provide direction on how decision-making can be enhanced in the teaching and coaching environment. Ewha Women's University, Seoul, Korea.
36. Vickers, J. N. & Martell, S. (2004). How elite ice hockey players read tactical plays and defend against opponents. Motor Behaviour Symposium: Visual Information Pick-up During Learning and Performance. AAHPERD 2004. New Orleans.
37. Vickers, J. N. & Crews, D. (2002). Short-term memory characteristics of golfers: Findings from concurrent measurement of gaze and EEG research. Invited Presentation, World Congress in Sport Science in Golf, St Andrews, Scotland. July, 2002.
38. Vickers, J. N. (2002). Quiet eye in golf putting. Invited presentation to the World Congress in Sport Science in Golf, St Andrews, Scotland.
39. Vickers, J. N. (2002). Invited Speaker. Decision Training: A New Approach In Coaching, University of the Victoria, BC, International Coaching School. August 2001
40. McPherson, S. L. & Vickers, J. N. (2002). Problem representations of Olympic volleyball players during serve reception and set situations. 2002 AAHPERD National Convention and Exposition. San Diego, CA (April 9-13, 2002)
41. Vickers, J. N. (2001). Invited Speaker. Future of Golf Conference, University of Arizona.
42. Vickers, J. N. (2001). Invited Speaker. Decision Training: A New Approach In Coaching, University of the Victoria, BC, International Coaching School.

43. Vickers, J. N. & Rodrigues, S. T. (2000). Visual Behaviour And “Quiet Eye” Duration In Near and Far Aiming Skills. British Olympic Association/National Coaching Foundation High Performance Workshop on Vision, John Moores University, Liverpool.
44. Vickers, J. N. & Patla, A. (1999). Object and travel gaze fixation during successful and unsuccessful stepping. 14th Symposium of the International Society for Posture Gait Research. University of Waterloo.
45. Vickers, J (1999). Eye movements of elite biathlon shooters during rested and fatigued states. North American Society Of The Psychology Of Sport And Physical Activity (NASPSPA). Clearwater, Florida

MEDIA REPORTS and VIDEOS

1. 2014 Calgary Herald, Keeping an eye on success, by Jamie Komarnicki, <http://www2.canada.com/calgaryherald/news/city/story.html?id=fd4fe5bc-d084-4406-8f27-5c5010378463>, March 27
2. 2014 Quiet eye, GLOBAL Calgary, <http://globalnews.ca/video/1233486/quiet-eye>, by Mia Sosiak, March 26
3. 2014 Calgary SUN, Calgary researchers find 'Quiet Eye' technique that helps elite athletes could be useful tool for surgeons, by Bill Kaufman. March 27.
4. 2014 Global NEWS, How ‘quiet eye’ may help train surgeons by [Mia Sosiak](#) and [Tamara Elliott](#), March 26.
5. 2014 660 NEWS, Surgeons’ eyes behave the same as athletes study, by Lisa Grant, March 26.
6. 2014 University of Calgary, Quiet eye moves into the operating room, by Don McSwiney and Gregory Harris, <http://www.ucalgary.ca/utoday/issue/2014-03-26/quiet-eye-training-moves-operating-room>, March 26.
7. 2014 Alberta Health Services, Elite athletes’ ‘Quiet Eye’ may enhance surgical education, by Gregory Harris, Alberta Health Services, March 26
8. 2012 Calgary SUN, Calgary Police Taking Aim With Quiet Eye, <http://www.calgarysun.com/2012/02/07/calgary-police-taking-aim-with-quiet-eye>.
9. 2012 Discovery Channel “Quarterback Eyes” - <http://watch.discoverychannel.ca/clip810362#clip810362>.
10. 2012 Calgary Herald, Quiet Eye Helps Train Police, <http://www.youtube.com/watch?v=sWiGfIJNFWk>
11. 2009, January 16, The Wall Street Journal. The Most Exciting Receiver In the NFL. Reed Albergotti.
12. 2008, December 22, The Kansas City Star, Quiet eye is key for hockey goalies, Pete Grathoff.

13. 2006, November, Daily Planet, The Discovery Network. The Quiet Eye In Ice Hockey Goaltending.
14. 2005, CNN March 24. "Spark": 'Quiet Eye' Helps Elite Athletes” by Julie Clothier for CNN, CNN Technology Section.
<http://edition.cnn.com/2005/TECH/03/21/spark.quiet.eye/index.html>
15. The Quiet Eye, Impressive Impressions, Video/DVD, June 2005, U of C Senate.
16. On the Ball, A Quiet Eye. Television Broadcast, PBS Scientific American Frontiers, Host: Alan Alda, <http://www.pbs.org/saf/>, March 19, 2002.
17. The Quiet Eye was featured on the cover of Golf Digest, in January 2004. A major article was also included Vickers, J.N. (2004). The quiet eye: it's the difference between a good putter and a poor one, here's proof. Golf Digest, January 96-101.
golfdigest.com/.../quieteye.html
18. Forbidden Places, 2000. Television Renaissance Special. Toronto.
19. Future Tense, Renaissance TV, 1999
20. Decouverte, CBC Francias, 1997
21. The Cutting Edge, Mechanics of Motion, 1988

RESEARCH SUPPORT

2014 - 2017 - 75,000	Department of Surgery Research Prize, with Dr. Adrian Harvey, Cummings School of Medicine
2014 – 2016 - 47,200	USA Hockey The Look-Up Line Project, with Emery, C. Sport Injury Prevention Centre, Faculty of Kinesiology
2013 - 6,000	B2TEN - Quiet eye testing and training of Olympic speed skaters in preparation for Sochi (2014)
2012 - 6,000	PURE Grant, Supervisor (Andrew Stewart). Title: Expertise and quiet eye differences in surgical knot tying
2012-2014 - 49,000	Harvey, A. & Vickers, JN. Research Project: Quiet eye of surgeons during identification and dissection of the recurrent laryngeal nerve: training new surgeons. Royal College of Physician and Surgeons, Canada.
2011-2014 - 39,000	Wilson M. & Vickers J.N. Research Project: Visuomotor processes underlying developmental coordination disorder in children. University of Exeter, UK.
2010-2012 - 11,960	Harvey, A. & Vickers, JN. Research Project Title: Critical eye fixations during identification and dissection of the recurrent laryngeal nerve. Faculty of Medicine, Department of Surgery, University of Calgary.

2010 - 20,000	Lewinski W. & Vickers, JN. Research project: Quiet eye of elite and rookie police officers, Mankato State University & Force Science Research Institute,
2009 - 8,000	Marco Polo Scholarship(PhD Grant Alessandro Piras). Quiet eye duration and performance in the soccer penalty kick. University of Bologna, Department of Human and General Physiology, Italy
2003-2008 - 882,000	Canadian Institute of Health Research (CIHR) Movement in the Mind's Eye (MIME): 5 Year Team Grant. A multidisciplinary study of body motion
2007-2008 - 30,000	PhD Graduate Scholarship (Derek Panchuk)
2007 - 11,562	Oval Research Fund
2005 - 80,000	Own the Podium-Sport Canada

TEACHING UNIVERSITY COURSES

KNES 251: Introduction To Motor Control And Learning

KNES 351: Neuroscience, Cognition In Human Movements/Effects of Concussion

KNES 353: Neural Control of Human Movement

KNES 451: Quiet Eye Pilot Research Project

KNES 503.xxx: Directed Study

KNES 593.xxx: Practicum in Neuro-Motor Psychology

KNES 653: Special Topics In Neuro-Motor Psychology