

James W. G. Thompson Ph.D., BCIA-EEG

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EDUCATION

PENNSYLVANIA STATE UNIVERSITY
Faculty of Kinesiology (Psychophysiology)
Ph.D. Conferred May, 2007, M. S. Conferred May, 2004

State College, PA
Jan 2002 – May 2007
GPA 3.98

UNIVERSITY OF BRITISH COLUMBIA
Faculty of Human Kinetics (Major: Health and Fitness, Minor: Commerce)
B.H.K. (1st Class Standing)

Vancouver, BC
1996-1999

WORK EXPERIENCE

INTERNATIONAL BRAIN RESEARCH FOUNDATION
Director of Brain Injury Research Programs
Develop, implement and guide brain injury research projects
Form collaborations with clinical and research facilities to implement research projects.
Help secure funds for research and clinical undertakings.
Train staff in brain injury assessment and rehabilitation (focus on electroencephalography)

Edison, NJ
Sept. 2008 - Present

COMPREHENSIVE NEUROSCIENCE CENTER
Neurophysiology Program Director
Assessment and interpretation of neurophysiological assessments.
Training program development for clients.
Staff training and oversight for neurophysiology assessments and training programs.

Edison, NJ
Sept. 2008 - Present

ADD PERFORMANCE CENTER
Director of Peak Performance Programs & Brain Injury Rehabilitation
Identify and rehabilitate mild traumatic brain injuries
Responsible for development and implementation of peak performance training programs and brain injury assessments.
Expertise in the use of quantitative electroencephalography (QEEG), electromyography (EMG), heart rate and respiration measures.

New York, NY
Jan 2006 – April 2009

TORONTO REHABILITATION INSTITUTE
Concussion Program Research Coordinator/Co-investigator
Responsible for the baseline and post concussion testing of athletes.
Managed day-to-day running of the TRI concussion research facility – staff management, data management, statistical analysis and liaised with coaches and athletic training staff.
Developed injury assessment protocols using neuropsychological, postural and brain imaging tests.

Toronto, ON
Feb 2005 – Feb 2006

PENNSYLVANIA STATE UNIVERSITY
Penn State University Concussion Program Coordinator
Responsible for the development of the Pennsylvania State University Concussion Program.
Co-designed and implemented quantitative electroencephalographic

State College, PA
Jan 2002 – May 2007

brain imaging (QEEG), posture and neuropsychological measures to assess the severity of concussions in Pennsylvania State Division I athletes. Responsible for evaluating and discussing with team medical and training staff the severity of athletes mild brain injuries and assisting in return to play decisions.

HONSBERGER PHYSIOTHERAPY CLINIC

Head Athletic Trainer

Markham, ON
April 2000 - Dec 2001

Designed and implemented sport specific annual training programs for athletes.
Designed and implemented physical rehabilitation programs for injured athletes in multiple sports including hockey, rugby, skiing, soccer and running.
On-site athletic trainer for men's and women's inter-high school athletic competitions.
Developed and instructed education seminars for athletes participating in sports

PUBLICATIONS & PRESENTATIONS

DeFina, P., Fellus, J., **Thompson, J.**, Polito, M., Moser, R., DeLuca, J. (2009). *"The New Neuroscience Frontier: Promoting Neuroplasticity and Brain Repair in Traumatic Brain Injury"*. The Clinical Neuropsychologist, In Press.

Wilson, S., **Thompson, J.**, Thompson, M., Pepper, E. (2009). *"Using EEG for Enhancing Performance: Arousal, Attention, Self Talk and Imagery"*. Biofeedback & Neurofeedback in Sport, Eds. Linden, M., Strack, B. . Springer, In Press.

Thompson, M., Thompson, L., **Thompson, J.**, Reid, A. (2009). *"Biofeedback Interventions for Autistic Spectrum Disorders: An Overview"*. Neuroconnections. In Press.

Pollito, M., **Thompson, J.**, DeFina, P. (2009). *"A Review of the International Brain Research Foundation (IBRF) Novel Approach to Mild Traumatic Brain Injury presented at the International Conference on Behavioral Health and Traumatic Brain Injury"*. Journal of the American Academy of Nurse Practitioners. In Press.

Invited Speaker, "Biofeedback & EEG-Feedback; The Peak Performance Toolkit", Northeast Regional Biofeedback Society Annual Meeting, May 2, 2009, New York, NY.

Invited Speaker, "Mild Traumatic Brain Injuries: Cutting Edge Assessment & Rehabilitation Methods", Brain Injury Conference, October 15, 2008, John J. College, NY, NY.

Invited Speaker, *"Statistics & Research Design: Fundamentals and clinical applications"*,
Invited Speaker, *"Assessment, Management and Rehabilitation of Concussions in Sports"*,
Biofeedback Certification Institute of America (BCIA) Workshop, June 2-6, 2008. Toronto, Canada.

Invited Speaker, *"The Role of Electroencephalography in the Assessment and Rehabilitation of Concussions in Motorsports"*. International Council of Motorsport Sciences annual meeting, July 29-31, 2008, Indianapolis, In.

Invited Speaker, *"Peak Performance Training in Sport using Psychophysiological Measures"*,
"Assessment, Management and Rehabilitation of Concussions in Sports", Biofeedback Certification Institute of America (BCIA) Workshop, June 2-6, 2008. Toronto, Canada.

Symposium Presenter, *"Applications of Biofeedback and Neurofeedback in Sports Psychology"*. Association for Applied Psychophysiology & Biofeedback annual conference, May 13-18, 2008, Daytona Beach, Fl.

Invited Speaker, *"Cortico-Kinesiology: Concussion assessment & Functional Rehabilitation"*. Society for the Advancement of Brain Analysis (SABA) annual meeting, April 29-May 3, 2008,

Sarasota, FL.

Chairman, Peak Performance Division: *“Application of Electroencephalography to Peak Performance Training”*. Applied Integrative Neuroscience annual conference, 2008. April 3-6, 2008, Monterrey, Mexico.

Invited Presenter. *“Concussion in Sport: Comparison of Assessment Methods Using Neuropsychological, Postural & QEEG Measures.”* New York Academy of Traumatic Brain Injury annual conference, 2008. March 27-29, 2008, New York, NY.

Workshop Presenter. *“Mild Brain Injury in Sport & Your Practice: Mechanisms, Pathophysiology & New Thinking in Assessment and Rehabilitation”*. International Society for Neurofeedback and Research 15th annual conference. September 6-9, 2007. San Diego, Ca.

Invited Speaker. *“Concussions in Sport: Functional Deficits and Assessment Measures”*. International Society for Neurofeedback and Research 15th annual conference. September 6-9, 2007. San Diego, Ca.

Thompson, J.W.G. (2007). *“Concussions in Sport: Investigation of Assessment Measures, Neural Mechanisms and Functional Deficits”*. Pennsylvania State University Libraries, <http://etda.libraries.psu.edu/theses/approved/WorldWideIndex/ETD-1885/index.html>
In Press. ProQuest, Ann Arbor, MI.

Invited Speaker: *“Statistics and Research Design in Biofeedback” & “EEG utility in the Assessment of Brain Injuries”* Biofeedback Certification Institute of America (BCIA) - Neurofeedback Fundamentals Workshop. June, 2007, Ontario, Canada

Co-Presenter: *“Optimizing Performance & Health – Assessment Methods”*, Sue Wilson, PhD. Biofeedback Foundation of Europe (BFE) Annual Conference. February 2007, Berlin, Germany.

Thompson, J.W.G. (2006). *“EEG Changes and Balance Deficits following concussion: One Piece of the Puzzle”*. S. Slobounov, W. Sebastianelli. *Foundations of sport-related brain injuries*. Massachusetts, Springer.

Invited Speaker: *“Statistics and Research Design in Biofeedback” & “EEG utility in the Assessment of Brain Injuries”* Biofeedback Certification Institute of America (BCIA) - Neurofeedback Fundamentals Workshop. September, 2006, Ontario, Canada

Invited Speaker: *“Statistics and Research Design in Biofeedback”*
Biofeedback Certification Institute of America (BCIA) - Neurofeedback Fundamentals Workshop. June 10-15, 2006, Burleigh Falls, Ontario, Canada

Thompson, J., Sebastianelli, W., Slobounov, S. (2005). *“EEG and Postural Correlates of Mild Traumatic Brain Injury in Athletes”*. *Neuroscience Letters*, 377, 158-163.

Poster Presentation: *“EEG Correlates of Traumatic Brain Injury in Athletes”*
North American Society for the Psychology of Sport and Physical Activity (NASPSPA)
2004 Annual Meeting: Vancouver, British Columbia, Canada

Invited Speaker: *“Optimal Performance Training for Executives Using Neurofeedback Training”*. International Society for Neuronal Regulation (ISNR) 2002 Annual Meeting: Scottsdale, Arizona, U.S.A.

Thompson, J.W.G. (2001). *“A Healthy ACL Throughout the Ski Season”*. Ski Press, 28-29.

MEDIA

GQ (Gentleman's Quarterly) – “ <i>Train Your Brain</i> ” by Kevin Conley Feature article, Expert consultation	October 2008
Live at Wayne Gretzkey's – “ <i>The Concussion Epidemic in Sports</i> ” Live radio guest appearance, expert opinion	October 2007
Hockey This Morning – “ <i>Awareness of Concussions in Hockey</i> ” Live radio guest appearance, expert opinion	October 2007
Men's Vogue – “ <i>Wired for Victory</i> ” by D.T. Max Feature article, Expert consultation	Jan/Feb 2007
Wall Street Journal – “ <i>Getting Your Head in the Game</i> ” by Russell Adams Feature section article, Expert consultation	July 2006
WHDH-TV (Boston), WB Channel 11 News (New York), WVEC (Virginia) - “ <i>Sports Performance & Neurofeedback</i> ” Live television appearance, expert opinion.	June 2006

RESEARCH AWARDS

The Physicians' Services Incorporated Foundation (PSI). “ <i>Empirically Validated Return-to-Play Guidelines for Sport-Related Concussions</i> ” \$155,000 (CDN)	2005 - 2007
The Pennsylvania State University. “ <i>Concussion Assessments: Sources to Symptoms</i> ”, \$5,000 (USD)	January, 2006
Pennsylvania State University Full scholarship for Master's and PhD course of study. Approx. \$150,000 (USD) over 5 years	January 2002 – May 2007

CERTIFICATIONS & AFFILIATIONS

International Society for Neurofeedback & Research	2005 - Present
North Eastern Regional Biofeedback Society	2006 - Present
Biofeedback Certification Institute of America (BCIA) EEG (electroencephalography) Associate Fellow	2002 - Present
Association for Applied Psychophysiology & Biofeedback (AAPB)	2002 – Present
Ontario Kinesiology Association (OKA) Certified Member	2000 - 2003
University of British Columbia Golden Key National Honors Society (top 10% of U.B.C. students academically)	1997-1999
SKIING	
Level 3 Coach (CSCF)	2000
Level 2 Instructor (CSIA)	1993
SAILING	
Level 4 Instructor (Black/National Level Instructor Evaluator) - re-certification	1999

GENERAL

CFC (Cdn Fitness Consultant / Cdn Physical Activity Fitness & Lifestyle Consultant)	1998
Canadian Red Cross First Aid: Adult and Child (re-certification)	1998
Sports First Aid Level II of II (Sport Medicine Council of British Columbia)	1997
Sports Injury Taping Level II of II (Sport Medicine Council of British Columbia)	1997