

\$QWLF LSDWLRQ DQG DGDSWDWLRQ 7KHRU\ DQG LPSOLF DWLRQ RI

During the past decade, many schools of thoughts regarding human movement have blossomed and shaped various clinical practices and fitness training systems. Now we are getting into an exciting era in which these schools of thoughts are combined to serve the unified goal of helping people truly enjoy and control the variability of human systems. In the center of this trend, there exists a huge advancement of sensorimotor neuroscience unlocking the mechanisms underlying plasticity of human nervous system. In this presentation, Internal Model, a dominating theory of human motor adaptation, will be discussed as well as the ways we can translate this knowledge into practice.

Biography

'DHKDQ .LP KDV EHHQ VHUYLQJ KLV UROH DV D &OLQLFDO .LQHVLORRJJLVW LQ &DQDGD IRU \HDUV KHOS activity goals. His areas of expertise include biomechanical assessment, exercise-based treatment to enhance motor learning and coordinating interdisciplinary teams for complex cases. He is passionate about bridging the gap between rehabilitation training and strength conditioning by applying evolving knowledge of .LQHVLORRJJ\ DQG 3DLQ 6FLHQFHV +H HDUQH G KLV 0DVWHU¶V 'HJUHH LQ .LQHVLORRJJ\ IURP 8QLYHUVLV YHUVLV\ ZLWK KLV %DFKHORU¶V GHJUHH LQ .LQHVLORRJJ\ LQ +H KDV SXEOLVKHG SHHU UHYLHZHG +H SUHVHQWHG KLV ZRUN LQ YDULRXV VFLHQWL¿F DQG ¿WQHVV FRQIHUHQFHV LQFOXGLQJ \$PHULFDQ & DQG &DQDGLDQ 6RFLHW\ IRU %LRPHFKDQLFV +H LV FXUUHQWO\ D UHVHDUFK FROODERUDWRU DW 6LPRQ Reality games on improving persistent pain. Prior to this, he also worked as a research collaborator at SFU Sensorimotor Neuroscience Lab and Oregon Research institute investigating supra-spinal mechanism of human motor learning and effect of exercise on symptoms of Parkinson's Disease. Being a clinical product consultant for E-treat Medical Diagnostics, Inc., he helps developing mobile-based self-management tools for people with chronic conditions.

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