

Kathy L. Kern

University of Michigan School of Kinesiology
1402 Washington Heights,
Ann Arbor, Michigan 48109 USA

Education	
2012	University of Michigan School of Kinesiology – Master of Science ♦ Major: Movement Science – Concentration: Motor Control
2009	University of Michigan School of Kinesiology – Bachelor of Science ♦ Major: Movement Science
2006	Oakland Community College (OCC) – Associate - General Studies ♦ Major: Exercise Science; Honors Graduate, <i>Summa Cum Laude</i>
Academic Appointments	
2012 - Present	Lecturer III, School of Kinesiology , University of Michigan, Movement Science & Health & Fitness Departments.
2013 - Present	Academic Advisor, School of Kinesiology Advising Pre-Health & Health & Fitness Program
2014 - 2018	Resolution Officer for the School of Kinesiology , Office of Student Conflict Resolution, Appointed by the Dean.
Teaching	
<u>HF242</u> 2014 - Present	Essentials of Exercise Physiology – Upper level course in the physiological adaptations to exercise. Revised in 2014. University of Michigan School of Kinesiology
<u>HF331</u> 2013 - Present	Biomechanics of Sport – Upper-level course in applied biomechanics. Developed in 2013. University of Michigan School of Kinesiology
<u>MVS110</u> 2012 - Present	Biological and Behavioral Bases for Human Movement – Introductory course in the disciplines of Motor Control, Biomechanics and Exercise Physiology. Taught all components. Revised in 2012. University of Michigan School of Kinesiology
<u>MVS320 (Lab)</u> 2012 - Present	Motor Control – Upper-level hands-on research course examining neurological and behavioral aspects of movement. Revised in 2012. University of Michigan School of Kinesiology
Additional Experience	
<u>HF470</u>	Independent Study – Directed senior level study examining the physiology of exercise. University of Michigan School of Kinesiology
<u>KIN511</u> Guest Lecturer	Physical Activity Behavior: Social Factors – Upper level course examining the socioeconomic factors of physical activity. University of Michigan School of Kinesiology
<u>BIO109</u> Assistant Instructor	Physiology and Anatomy – Introductory lecture and lab course. Washtenaw Community College.
<u>KIN415</u>	Directed Teaching in Physical Education – Created an innovative rubric for students to complete teacher evaluations – University of Michigan School of Kinesiology.
Study Group Leader	Study Group Leader & Program Developer – As an undergrad I created the first sanctioned study group for the School of Kinesiology. Study Groups Led at Oakland Community College – Advanced Algebra, Trigonometry & Geology.

Advisor to Student Groups and Organizations	
2015 - Present	Figure Skating Club at the University of Michigan
University Committees	
2015-Present	Schoolcraft Community College - Advisory Committee for the Fitness Leadership programs
Administrative	
2014 - Present	Internship Coordinator Health & Fitness Program - University of Michigan School of Kinesiology.
2013 - Present	Health & Fitness program Coordinator
2016 - Present	Member, Health & Fitness Curriculum review committee
2016 - Present	Member, School Curriculum and Instruction Committee
Awards & Grants	
2014 - 2015	Teaching Excellence Award - University of Michigan School of Kinesiology
2012	Awarded Graduate Student Instructor Assistantship , School of Kinesiology, University of Michigan, Movement Science Department.
Certifications	
2016	American College of Sports Medicine: Certified Personal Trainer CPT
In progress	American College of Sports Medicine: ACSM/NCHPAD Certified Inclusive Fitness Trainer
Research	
2012 - Present	Research Associate, Motor Control Laboratory - University of Michigan School of Kinesiology. Examining innovative devices and techniques in upper extremity rehabilitation for individuals with central and peripheral neurological disorders. Additionally examining the effects of aging on hand and arm function.
2014	Research Asst II., Human Performance Innovation Laboratory - University of Michigan School of Kinesiology. Examining the biomechanical health risks of obesity
2010 - 2012	Masters-level research project ; Reviewed upper limb assessment techniques.
2007 - 2010	Undergraduate Research Assistant - Collected and analyzed data associated with an upper limb intervention for adults with cerebral palsy and children with brachial plexus palsy.
Publications & Presentations	
<i>Peer-Reviewed Publications</i>	<p>Brown, S. H., Wernimont, C.W., Phillips, L.J., Kern, K.L., Yang, L. J-S., Nelson, V.S (2016) Hand sensorimotor function in older children with neonatal brachial plexus palsy. <i>Pediatric Neurology</i> 56, 42-47.</p> <p>Langan, J., Kern, K.L., Hurvitz, E.A, Brown, S.H. (2014) Upper limb position sense deficits in adults with cerebral palsy. <i>American Journal of Physical Medicine & Rehabilitation</i> 93 (9), 774-781.</p> <p>Brown, S.H., Langan, J., Kern, K.L., Hurvitz, E.A. (2011). Remote monitoring and quantification of upper limb and hand function in chronic disability conditions, <i>International Journal of Disability and Human Development</i> 10 (4).</p>

<p><i>Works in Preparation</i></p>	<p>Kern K.L., Brown, S.H. Home Sensorimotor Training Improves Hand Function in Older Adults.</p> <p>Aaron, M., Bery, A., Kern K. L., Brown, S.H. Influence of menstrual cycle phase on upper limb position sense. (Exp. Brain Res).</p>
<p><i>Abstracts</i></p>	<p>Wernimont C.W., Phillips L., Yang L.J., Kern K.L., Brown S. H. Somatosensory Deficits in Children with Neonatal Brachial Plexus Palsy. Association of Academic Physiatrists. Annual Meeting 2012, Abstract ID: ESA-1707-09-10-2012.</p> <p>Langan, J., Kern, K., Hurvitz, E., Brown, SH. Improvement in proprioceptive function following upper limb sensorimotor training. Amer Congress Rehab Medicine 2010</p> <p>Brown, S.H., Langan, J., Kern, K.L., Hurvitz, E.A. Remote monitoring and quantification of upper limb and hand function in chronic disability conditions. 8th Int Conf Disability, Virtual Reality and Assoc Tech 2010</p> <p>Brown, SH., Doyle, ST, Kern, KL, Lewis, CA, Hurvitz, EA. Internet-based home training to improve upper limb coordination in adults with cerebral palsy. Soc. Neuroscience 2009</p>
<p><i>Conferences</i></p>	<p>Caminita, M., Hibino, H., Kern, K., Huang, M., Brown, SH. Effects of bilateral reach tasks on postural control in older adults. <u>Society for Neuroscience 2015</u></p> <p>Kern, K., Brown, S.H. Training-related improvements in hand force perception in older adults. <u>Society for Neuroscience 2014</u></p> <p>Aaron M.B., Bery A.B., Kern K.L., Brown S.B. Menstrual Cycle Phase Affects Upper Limb Position Sense in Young Women. <u>Society for Neuroscience 2013.</u></p> <p>Wernimont, C.W., Phillips, L.J., Kern, K.L., Yang, L. J-S., Nelson, V.S, Brown, S.H. Somatosensory deficits in children with neonatal brachial plexus palsy. <u>Amer Academy Physiatry March 2013</u></p> <p>Phillips L., Wernimont C., Nelson V., Yang L., Kern K., Brown S. Somatosensory Deficits in Children with Neonatal Brachial Plexus Palsy. <u>American Academy for Cerebral Palsy and Developmental Medicine 2013</u></p> <p>DeLave K. A., Langan J. M., Kern K. L., Brown S. H. The Effects of Task and Skill on Sequentially Produced Grasp Forces. <u>Society for Neuroscience 2012.</u></p> <p>Langan, J., Kern, K.L., Hurvitz, E., Brown, S.H. Improvement in proprioceptive function following upper limb sensorimotor training. <u>American Congress of Rehabilitation Medicine 2010.</u></p> <p>Brown, S.H., Langan, J., Kern, K.L., Hurvitz, E.A. Remote monitoring and quantification of upper limb and hand function in chronic disability conditions. <u>8th International Conference on Disability, Virtual Reality and Assoc Tech 2010.</u></p> <p>Langan, J., Kern, K.L., Hurvitz, E.A., Brown, S.H. Improved tactile and limb position sense in adults with cerebral palsy following upper limb sensorimotor training. <u>Society for Neuroscience 2010.</u></p>
<p>Professional Memberships</p>	
<p>2007 - Present 2011 - Present 2013 - Present</p>	<p>Society for Neuroscience Society of Clinical Research Associates American College of Sports Medicine</p>