

## **Sunday June 4, 2017**

### **4:00-7:00 pm CONFERENCE OPENING**

#### **4:00-6:15 Conference Welcome and Historical Foundations Lectures [Kon Tiki]**

##### **NASPSPA Conference Welcome**

Jennifer L. Etnier, University of North Carolina at Greensboro

##### **HISTORICAL FOUNDATIONS LECTURES**

**Presider/Moderator:** Penny McCullagh, California State University – East Bay

The Historical Foundations Lecture for the 50<sup>th</sup> anniversary of NASPSPA will include lectures from three eminent and longstanding NASPSPA members who will represent the three areas of Motor Learning and Control, Sport and Exercise Psychology and Motor Development. Each lecturer will present their “take” on the fascinating highlights of their area during the four decades from 1967 to 2006. Speakers will focus on paradigms, theories, methods, and trends and will highlight contributions from NASPSPA members within the overall context of scientific developments in their respective fields.

##### **Motor Control and Learning Research in NASPSPA: The First 40 Years**

**Presenter:** Bob Christina, Professor Emeritus, University of North Carolina at Greensboro

Before the late 1960s, motor control and learning (MCL) research used an S-R or product-oriented approach in which response outcomes of complex real-world and laboratory motor tasks were studied as a function of the manipulation of stimulus variables (e.g., practice, KR). By the late 1960s, NASPSPA MCL researchers shifted toward an information processing (IP) or process-oriented approach using simple movements to study the cognitive processes acting on the stimulus information that elicited the response. Much of the focus from the late 1960s into the 1980s was on understanding how movement information was processed and coded, stored, represented in memory. It also was on understanding MCL in terms of topics such as attentional processes, speed-accuracy, open- and closed-loop systems, time required to process feedback and amend movements, motor programs, response programming, Adams’ Closed-Loop Theory (1971), and Schmidt’s Schema Theory (1975). And from the 1980s into the 2000s we revisited how practice scheduling and augmented feedback could be organized to optimize ML. The early and mid-1970s also saw a growing interest in MC research that sought to understand what was being controlled, how the process was organized, and what purpose it served. A new constraints-based perspective emerged with a strong connection to physical biology and ethology that

combined Bernstein's (1967) ideas on degrees of freedom, context-conditioned sensitivity, and functional synergy (i.e., coordinative structure) with Gibson's (1966, 1977, 1979) ecological view. MCL research from the 1980s into the 2000s searched for principles and laws of "self-organization" of movement control, and answers to the degrees of freedom problem, that is, how a human motor system with so many independent parts could be controlled without the need for an executive decision-maker and brain mechanisms such as memory, motor programs, and schemas as proposed by the IP approach. The mid-2000s found us thinking about the extent to which the IP and constraints-based views of MCL were divergent or complimentary.

### **NASPSPA Sport and Exercise Psychology Research Across Four Decades: A Sketch**

**Presenter:** Lawrence R. Brawley, University of Saskatchewan

The trouble with history is that we often recollect what we "think" happened. The perspective I offer is just that – my recollection of trends characterizing research presented and discussed at NASPSPA over 40 years. Briefly, what do I remember?

1967-77 A beginning to "systematic" research and an era of drives, motives and testing "first principles". A time of pioneering efforts to make the science more empirical and based upon social psychological theory.

1978-87 An era of social-cognitive and social psychological research trends. The graduates of well known pioneers explored theories and processes describing phenomena in many levels of sport. The names of psychologists Bandura, Weiner, Harter and others appeared in multiple presentations. A proliferation of texts influenced what graduate students likely presented at conferences. A new society arose – AAASP – partly as a consequence of NASPSPA's decision to focus on research versus application. Psychophysiological research gained attention and continued into the decade that followed. Meta-analyses were offered.

1988-97 An era of "expansion" in the amount of sport psychology research and an influx of exercise and physical activity research focused on links between exercise and health. The graduates of pioneers and their trainees became more prolific in examining use of theory. Conceptual frameworks more specific to sport were offered and related measures developed. Examples were sport-related confidence, motivation and its orientations, leadership and cohesion.

1998-2006. An era of "diversification" and growth in a wide range of sport and exercise psychology topics. New models and lifespan views were introduced, feminist perspectives offered, differing research models proposed and qualitative methods championed and utilized.

In reflection, I offer thoughts about the way we have used some theories, methods we champion, and measures we create. Is this last decade one that reflects systematically developed knowledge? Does it reflect an eccentric and/or refreshing picture of the exercise and sport psychology to come?

### **Pentimento: A 21<sup>st</sup> Century Look at the Canvas of Motor Development**

**Presenter:** Jane E. Clark, University of Maryland, College Park

How we understand the emergence and development of motor behavior and skillfulness has itself developed over the last 50 years. In reflecting on the history of motor development, it is important

to recognize that these ‘reflections’ are much like the painter’s “pentimento.” That is, the ‘canvas’ we paint today of what our science was decades ago is actually a painting with many layers – each representing where our views have changed along the journey. I do not “repent” with these reflections, as suggested by the term, pentimento, but rather I seek to bring a developmental perspective to our scientific inquiries into motor development with an element of a revisionist’s approach. What were the key discoveries and the seminal papers that influenced our canvas of motor development that we view today? Almost three decades ago, we (Clark & Whittall, 1989) outlined an historical framework for the field of motor development. Today, we can look back at that framework and the ensuing science and consider where we have been and what we have learned and, ask: What does the pentimento of our motor development canvas reveal?

**6:15-7:00 pm NASPSA Jeopardy Game [Kon Tiki]**

**7:00 pm Opening Reception [Beach] [Dinner on your own]**

**Monday, June 5, 2017**

**9:30-11:00 am MOTOR LEARNING AND CONTROL JANUS SYMPOSIUM [Kon Tiki]**

**President:** Howard Zelaznik, Purdue University

**Moderator:** Tim Lee, McMaster University

**Looking through the rear view mirror while driving forward at speed: Some key recent developments and likely future directions in motor control and learning research**

**Presenters:** A.Mark Williams and B. Fawver, University of Utah

In this presentation, we review some of the most innovative and impactful developments in the field of motor control and learning over the past decade. We utilize citation reports from some of the most prominent journals in the field, as well as relying on subjective opinion from leading academic experts to identify notable contributions to knowledge generation and applied practice in this broad and dynamic field. We delimit the scope of this task by focusing our efforts on three specific areas of study, notably, visual control of action, perceptual-cognitive expertise, and skill learning. In looking back over the last decade through a rear view mirror, we attempt to provide some direction to help drive the field forward by highlighting potential areas for important theoretically driven work and applied research in the future. Our hope is that over the next few decades these fields of study will have even greater influence and translational impact on society across multiple domains of human activity.

**Catching the integration train: A look into the next ten years**

**Presenter:** Cheryl M. Glazebrook, University of Manitoba

The next decade will be a time for testing new theories, striving for integration and fostering communication. As we build on our strong theoretical roots, as well as the developments of today, we will continue to refine our understanding of human motor behaviour using novel technologies and analysis techniques that enable new insights into the underlying processes for motor control and learning. Advances in brain imaging, behavioural and statistical techniques will facilitate novel

perspectives through an integrated understanding of the contributions of sensory, cognitive and emotional processing with motor performance. The application of an integrated approach will be far reaching, including education, healthcare, and human-machine interfaces. In keeping current with technology we must be engaged with developers so that new techniques, laws, and plans are logically constructed, in other words with a solid theoretical framework. Similarly, as the healthcare and education sectors are pushed to do more with less, our fundamental understanding of human motor control and learning will provide crucial insights into how to work together and stay on track. With rapid change will come a need for rapid output, creating a need to shift our patterns of behaviour with respect to how to share our theoretical findings to the broadest audience both efficiently and ethically. As experts in motor control and learning it is our responsibility to forge new connections across our respective subdisciplines and the various sectors of our society.

#### **4:00-5:30 pm Beach Side Chats [Beach]**

1. Networking for Early Career Researchers (Katie Gunnell, Yu Kai Chang, Tony Carlsen, Ali Brian)
2. Routledge Publishing Chat (Mark Williams; Alejandra Leach-Nunez & Will Bailey [Routledge])
3. Work Life Balance (Miranda Kaye, Cheryl Glazebrook, Jody Jensen, Eva D'Hondt, Travis Dorsch)
4. Job Application Advice/Nonacademic Careers (Jeffrey Martin, Jeffrey Haddad, Diane Ste. Marie)
5. Funding your Research (Chris Janelle, Anastasia Kyvelidou, Matthieu Lenoir)
6. Maintaining Mid-Career Momentum (Paddy Ekkekakis, Richard Van Emmerick, Ting Liu, Lisa Barnett)

#### **Tuesday, June 6, 2017**

#### **9:45-11:15 am MOTOR DEVELOPMENT JANUS SYMPOSIUM [Kon Tiki]**

**Presider:** Jill Whitall, University of Maryland, School of Medicine

**Moderator:** Michael G. Wade, University of Minnesota

#### **Motor Development is Fundamental to Human Development**

**Presenter:** David I. Anderson, San Francisco State University

We are born to move but learn to move skillfully. The fascinating process by which the poorly coordinated newborn transforms into a willful child, a clumsy adolescent, a competent mover, potentially an elite performer, and an older adult capable of compensating for declines in multiple biological systems, continues to evoke interest in laypeople, researchers, and clinicians alike. The last 10 years of research in motor development have reaffirmed the centrality of movement in all human endeavors. Learning to act and move skillfully has consequences that extend well beyond the motor domain, though the motor domain continues to be undervalued in its own right. The last 10 years have also reminded us how much we still have to learn about development. Despite uncovering remarkable capacities in the newborn, discovering that early capacities predict later developing capacities in the same and different domains, revealing new linkages

among motor activity, perceptions of competence, fitness, health, and psychological functioning, expanding descriptions of how skills develop, highlighting the multimodal nature of perception and action, validating assessments, intervening to promote motor development in children with disease or disability, and translating research into practice, many aspects of motor development remain a mystery. Moreover, despite forging collaborations with researchers and clinicians in neuroscience, cognitive science, embryology, pediatrics, robotics, the learning sciences, and public health, motor development researchers are only beginning to understand the complex web of processes that underlie developmental change. Nevertheless, progress has been made! This section of the Janus talk will overview the themes and topics that have dominated research in motor development over the last 10 years and highlight some of the most important discoveries that have been made. These discoveries reaffirm that human beings are self-organizing, self-stimulating, complex systems that play a central role in their own development by virtue of being inherently active.

### **Motor Development is a Discipline with a Bright Future**

**Presenter:** Leah E. Robinson, University of Michigan, Ann Arbor

Movement is how we explore our environment. The discipline of motor development has made valuable contributions to science as it relates to the study of human movement and human development. This section of the Janus Symposium will highlight future directions for motor development research. It is imperative that researchers strive to make a conscience effort and continue to conduct translational research - the process of transforming scientific discoveries arising from laboratory or population studies into clinical or real-world applications to address issues that are plaguing our society. Researchers must remain committed to conduct interdisciplinary research and integrate motor development with various disciplines within and outside our field. This will allow for the development of new techniques, tools, perspectives, concepts, and theories that will advance our fundamental understanding or solve problems beyond the scope of our discipline. Based on the current state of the literature and science there are four areas of interest for future research considerations. a) Advances in medicines have contributed to individuals living longer which results in a need to focus more research on special populations that include the elderly and diseased. b) New non-invasive neuroimaging tools can answer critical questions related to the brain-behavior interaction. Neuroimaging can now enable researchers to understand “what the brain is doing while moving and the effect of a motor skill intervention on the brain”. c) Discoveries in the biomedical sciences can contribute knowledge to the gene-environment interaction through epigenetics and answer questions like “why motor delays or disease may occur?” d) There is a need to explore the relationship and effect of motor development on developmental and health outcomes on the population. Understanding these outcomes will support the public health and educational relevance of motor development as a discipline. As you can see, motor development research has a bright future -- bountiful with many questions that await to be answered.

**Wednesday, June 7, 2017**

**9:30-11:00 SPORT AND EXERCISE PSYCHOLOGY JANUS SYMPOSIUM [Kon Tiki]**

**President:** Maureen Weiss, University of Minnesota

**Moderator:** Glyn Roberts, Norwegian School of Sport Science

**Back to the Future: Sport and Exercise Psychology in the Past and Future Decades**

**Panel Participants:**

Mark Eys, Wilfrid Laurier University

Diane L. Gill, University of North Carolina at Greensboro

Kathleen Martin Ginis, The University of British Columbia

Alan L. Smith, Michigan State University

In the Janus Symposium for Sport and Exercise Psychology (SEP), a panel format will be used to obtain multiple and diverse perspectives from one senior and three mid-career scholars. Panel members Diane Gill, Mark Eys, Kathleen Martin Ginis, and Alan Smith will offer their insights about the most recent decade of research in the field (2007-2017) and then generate a vision for SEP research in the decades to come. A set of questions will be posed to the panel for their response, and audience members will be encouraged to follow up on ideas following each question. Some questions include: (1) In the last 10 years, what research has had an impact on your work and has it changed how you think about or conduct your research? (2) In today's contemporary research and funding environment of "translatable research," is the use of theory a realistic mandate for the future? Why or why not? (3) For decades, the "parent" discipline of psychology has provided direction to the research pursuits and practices of SEP. What will be the future of this influence on SEP and are there other disciplines that are of equal influence? (4) Is SEP taken seriously in the broader disciplines (e.g., psychology, medicine)? If not, what can we do about that? This question is based on the idea that researchers in other fields often do not cite SEP research in their articles or recommend physical activity as part of a broad-based mental health or clinical treatment program. (5) Given the current, and probably future, emphasis on securing funding for research, should beginning scholars be advised to focus their research efforts on topics that are most fundable rather than on topics they find most interesting or are most passionate about? (6) What research areas will wane in interest/import over the coming decades, which ones will take off, and what areas will exist that do not exist presently? Several other questions of a similar nature will be posed to panelists for their perspectives, and we envision the audience having ample opportunities to interact with panel members on these questions.

**5:30-7:00 pm Beach Side Chats [Beach]**

1. Chat with Journal Editors (Daniela Corbetta [JMLD], Martyn Standage [JSEP], Nick Myers [MPEES], Nikos Ntoumanis & Bernd Strauss [PSE], Maria Kavussanu [SEPP])
2. Funding School- and Community-Based Interdisciplinary Research (Karl Erickson, Nadia Valentini, Tony Okely)
3. Human Kinetics Textbook Authors (Dan Gould, Jerry Thomas, Nancy Getchell, Kathy Haywood; Bridget Melton [Human Kinetics])

4. Promoting Diversity (Leps Malete, Jan Hondzinski, Mary Rudisill, Priscilla Caçola)
5. Tips for Tenure (Les Carlton, Penny McCullagh, Deb Feltz)
6. Establishing Research Collaboratives (Cathi Sabiston, Howie Zelaznik, David Stodden)
7. Moving into Administration (Kathy Williams [Associate Dean], Daniel J. Weeks [President and Vice-Chancellor]; Alan Smith [Chairperson])

Monday June 5

## 7 Sport and Exercise Psychology - Exercise and Mental Health (Kon Tiki)

Moderator: Alan L. Smith, Michigan State University, United States

8:00-8:15 am **Keep smiling with HIT: The effects high-intensity interval training on mental health outcomes and the acute inflammatory response**

Paolucci, Emily M.; Heisz, Jennifer J., McMaster University

8:15-8:30 am **Physical activity, sedentary behaviour, body mass index, and mental health indicators: An investigation using direct measures and nationally representative data**

Gunnell, Katie E., Children's Hospital of Eastern Ontario; Larouche, Richard, University of Prince Edward Island; Goldfield, Gary S.; Tremblay, Mark S., Children's Hospital of Eastern Ontario Research Institute

8:30-8:45 am **The Effects of Short-term Fitbit(c) wearing on Self-efficacy in Non-exercisers.**

Adams, Melanie M.; Freleng, Chelsea, Keene State College

8:45-9:00 am **Be active, rest well, and improve mental health: Physical activity, depression symptoms and the mediating role of sleep quality and quantity among breast cancer survivors**

Gentile, Anika R.; Sylvester, Benjamin D.; Sabiston, Catherine M., University of Toronto

9:00-9:15 am **Put on your running shoes for a better snooze: examining the optimal dose of exercise for efficient sleep in older adults**

Fenesi, Barbara; Kovacevic, Ana; Heisz, Jennifer J., McMaster University

## 8 Sport and Exercise Psychology - Self-Compassion and Mindfulness (Board Room)

Moderator: Catherine Sabiston, University of Toronto, Canada

8:00-8:15 am **Exploring the conceptualization and assessment of self-compassion within the context of body image**

Ullrich-French, Sarah C.; Cox, Anne E., Washington State University



8:15-8:30 am **Exploring Elite Female Athletes Lived Experiences of Mental Toughness and Self-Compassion**  
 Wilson, Dani C., University of British Columbia; Mosewich, Amber D., University of Alberta; Faulkner, Guy; Crocker, Peter R.E., University of British Columbia

8:30-8:45 am **Self-compassion protects against negative body-related emotions: A three-wave study of adolescent girls in sport**  
 Pila, Eva; Gilchrist, Jenna D.; Sabiston, Catherine M., University of Toronto

8:45-9:00 am **A Balancing Act: Understanding the role of mother guilt and self-compassion in health-promoting behaviours in mothers with young children**  
 Miller, Cindy; Strachan, Chaelyn, University of Manitoba

9:00-9:15 am **The Impact of Dispositional Mindfulness on the Competitive Performance and Psychological Readiness of Elite Swimmers**  
 Martin, Lisa A.; Hinz, Angela, University of the Sunshine Coast; Formosa, Danielle, Swimming Australia

**9 Motor Learning and Control - The contextual interference effect after 35 years: History, current research, future directions (Macaw)**

Organizer: Nancy Getchell, University of Delaware, United States

Discussant: Shailesh S. Kantak, Moss Rehabilitation Research Institute

Moderator: Nikki Hodges, University of British Columbia, Canada

8:00-8:10 am **Contextual Interference: A Historical Perspective**  
 Shea, John B., Indiana University

8:10-8:25 am **Pay now or pay later - assessments of cognitive load in virtual environments using optical imaging within contextual interference paradigms**  
 Shewokis, Patricia A., Drexel University; Shariff, Faiz U, Lehigh Valley Health Network; Ayaz, Hasan, Drexel University; Getchell, Nancy, University of Delaware; Izzetoglu, Meltem, Drexel University; Lind, D. Scott, University of Florida-Jacksonville

8:25-8:40 am **Challenge to promote change: The neural correlates of the contextual interference effect in young and older adults**  
 Pauwels, Lisa; Chalavi, Sima; Sunaert, Stefan; Maes, Celine; Swinnen, Stephan P., KU Leuven

8:40-8:55 am **What's under the hood? Examining prefrontal cortex activity using fNIRs within a contextual interference paradigm**

Getchell, Nancy, University of Delaware; Shewokis, Patricia A., Drexel University; Wunsch, Emily, University of Delaware; Schilder, Alex B., Emory University

**10 Motor Development - Exploration of perceived motor competence in investigating actual motor competence and physical activity (Toucan)**

Moderator: Kathy Haywood, University of Missouri-St. Louis, United States

8:00-8:15 am **Two worlds colliding: A motivational and motor development perspective on youngsters' engagement in physical activity and sports**

De Meester, An, Ghent University, Belgium; Pion, Johan, HAN University of Applied Sciences; Mostaert, Mireille, Ghent University, Belgium; Bardid, Farid, University of Strathclyde; Cardon, Greet; De Muynck, Gert-Jan; Lenoir, Matthieu; Haerens, Leen, Ghent University, Belgium

8:15-8:30 am **Gender differences in the association between motor competence and executive function: does perceived or actual competence matter?**

Pesce, Caterina; Marchetti, Rosalba; Masci, Iliara, Italian University Sport and Movement Foro Italico

8:30-8:45 am **What is the contribution of actual motor skill, fitness, and physical activity to children's self-perceptions of motor competence?**

Barnett, Lisa, Deakin University; Lubans, David R., University of Newcastle; Timperio, Anna, Deakin University Institute for Physical Activity and Nutrition (IPAN), School of Exercise and Nutrition Sciences; Salmon, Jo; Ridgers, Nicola D., Deakin University

8:45-9:00 am **The role of motor competence and mediating role of perceived motor competence in preschooler's physical activity levels on the playground**

Famelia, Ruri; Tsuda, Emi; Goodway, Jacqueline, The Ohio State University

9:00-9:15 am **Can we build profiles to understand how ability (fitness, motor skill) and engagement in physical activity relate to children's motor perceptions?**

Estevan, Isaac; Garcia-Masso, Xavier; Villarasa, Israel; Molina-Garcia, Javier, University of Valencia; Barnett, Lisa M., Deakin University

**13 Sport and Exercise Psychology - The imperative of bringing implicit processes to the spotlight: Exercise psychology in the postcognitivist era (Kon Tiki)**

Organizer: Zachary Zenko, Duke University, United States

Discussant: Panteleimon Ekkekakis, Iowa State University, United States

Moderator: Matthew Pointifex, Michigan State University, United States

11:15 am - 11:27 am **The imperative of bringing implicit processes to the spotlight: Exercise psychology in the postcognitivist era**  
Zenko, Zachary, Duke University

11:27 am - 11:39 am **Exercise psychology at 50: From wide-eyed radical cognitivist to nuanced dual-process theorist**  
Ekkekakis, Panteleimon, Iowa State University

11:39 am - 11:51 am **The role of automatic evaluations in exercise choices under ego-depletion. An experimental approach from a dual-process perspective on affective evaluation of exercise**  
Brand, Ralf, University of Potsdam; Utesch, Till, University of Muenster

11:51 am - 12:03 pm **Automatic evaluations and exercising: A qualitative literature review**  
Antoniewicz, Franziska; Schinkoeth, Michaela, University of Potsdam

12:03 pm - 12:15 pm **Measuring implicit exercise associations: Comparative validation**  
Zenko, Zachary, Duke University; Ekkekakis, Panteleimon, Iowa State University

**14 Sport and Exercise Psychology - Youth Development and Leadership (Board Room)**

Moderator: Tara Scanlan, UCLA, United States

11:15 am - 11:30 am **An Evaluation of a National Online Captain's Leadership Training Course**  
Walker, Lauren; Gould, Daniel R., Michigan State University

11:30 am - 11:45 am **Examining coach and athlete perceptions of challenge in youth sport: What leads to growth-enhancing vs. a growth-thwarting experience?**  
Disanti, Justin; Tucker, Sami; Santerre, Cassaundra; Kohler, Madison; Erickson, Karl, Michigan State University

11:45 am - 12:00 pm **Whose role is it? Examining youth athletes' perceptions of psychosocial development across recreational and competitive sport**  
 Bean, Corliss, University of Ottawa; Forneris, Tanya, University of British Columbia Okanagan

12:00 pm - 12:15 pm **Teacher-Coach Perceptions of Life Skills Transfer from High School Sport to the Classroom**  
 Pierce, Scott, Illinois State University

12:15 pm - 12:30 pm **Examining Factors that Influence Youth Sport Coaches' Transformational Leadership Behaviours.**  
 Rochon, Chantal; Turnnidge, Jennifer, Queen's University;  
 Cowburn, Ian H., Leeds Beckett University; O'Connor, Meaghan;  
 Côté, Jean, Queen's University

**15 Motor Learning and Control - Noninvasive brain stimulation to improve motor performance and learning: Help or hype? (Macaw)**

Organizer: Bradley R. King, KU Leuven, Belgium

Discussant: Genevieve Albouy, KU Leuven, Belgium

Moderator: Kelly Westlake, University of Maryland Baltimore, United States

11:15 am - 11:20 am **Introduction**  
 King, Bradley R., KU Leuven

11:20 am - 11:36 am **Minimizing deficits in motor memory consolidation in older adults via transcranial direct current stimulation: Behavioral and neuroimaging investigations**  
 King, Bradley R., KU Leuven

11:36 am - 11:53 am **Cerebellar tDCS enhances motor adaptation in healthy older adults**  
 Hardwick, Robert, Johns Hopkins University

11:53 am - 12:10 pm **The cerebellum: an elusive gatekeeper for cortical plasticity and motor learning**  
 Popa, Traian, National Institute of Neurological Disorders and Stroke

**16 Motor Development - Exploring Seefeldt's Proficiency Barrier (Toucan)**

Organizer: Danielle Nesbitt, University of South Carolina, United States

Discussant: Matthieu Lenoir, University of Ghent, Belgium

Moderator: Jill Whittall, University of Maryland Baltimore, United States

11:15 am - 11:20 am **Exploring Seefeldt's Proficiency Barrier**  
 Nesbitt, Danielle, University of South Carolina

11:20 am - 11:33 am **Revisiting Seefeldt's Proficiency Barrier concept in the 21st century: Implications for locomotion**  
 Getchell, Nancy, University of Delaware; Brian, Ali; Stodden, David, University of South Carolina

11:33 am - 11:46 am **Testing the motor proficiency barrier hypothesis for physical activity and weight status**  
 Lopes, Vitor P., School of Education of Polytechnic Institute of Braganca; Lopes, Luis, University of Porto; Santos, Rute, University of Wollongong; Stodden, David F., University of South Carolina; Rodrigues, Luis P., Instituto Politecnico de Viana do Castelo

11:46 am - 11:59 am **Identification of a motor competence proficiency barrier among children for meeting physical activity guidelines**  
 De Meester, An, Ghent University, Belgium; Stodden, David F., University of South Carolina; Goodway, Jacqueline, The Ohio State University; True, Larissa, State University of New York at Cortland; Brian, Ali, University of South Carolina; Ferkel, Rick, Central Michigan University; Haerens, Leen, Ghent University, Belgium

11:59 am - 12:12 pm **The effect of motor competence "proficiency barriers" on health-related fitness**  
 Nesbitt, Danielle, University of South Carolina; True, Larissa, State University of New York at Cortland; Stodden, David F., University of South Carolina

**18 Sport and Exercise Psychology - Psychophysiological insights into the association between health behaviors and cognition (Kon Tiki)**

Organizer: Matthew Pontifex, Michigan State University, United States

Discussant: Jennifer L. Etnier, University of North Carolina Greensboro, United States

Moderator: Panteleimon Ekkekakis, Iowa State University, United States

2:15-2:20 pm **Symposium description**  
 Pontifex, Matthew B., Michigan State University

2:20-2:35 pm **Chronic physical activity for the developing brain**  
 Drollette, Eric S., University of Illinois at Urbana-Champaign

2:35-2:50 pm **Exercise mode and working memory in late middle-aged adults: A functional MRI study**  
 Chang, Yu-Kai; Chen, Feng-Tzu, National Taiwan Sport University

2:50-3:05 pm **Exercise as a stand-alone or combination treatment for cognitive control deficits in major depression**  
 Alderman, Brandon L., Rutgers, The State University of New Jersey

3:05-3:20 pm **What if I don't want to exercise today: The association between bouts of physical activity and cognition**  
Pontifex, Matthew B., Michigan State University

**19 Sport and Exercise Psychology - Coach-Athlete Relationships (Board Room)**

Moderator: Bernd Strauss, University of Muenster, Germany

2:15-2:30 pm **Mechanisms explaining the effect of coach feedback on athletes' motivation, persistence, and performance: Two experimental studies**  
Muynck, Gert-Jan De, Ghent University, Belgium; Vansteenkiste, Maarten; Delrue, Jochen; Aelterman, Nathalie, Ghent University, Belgium; Vandebroek, Gert, KU Leuven; Soenens, Bart, Ghent University, Belgium

2:30-2:45 pm **Explaining the Relations of Athletes' Perceptions of Coach Doping Confrontation Efficacy with Intention to Dope and to Avoid Inadvertent Doping**  
Boardley, Ian D., University of Birmingham; Smith, Alan L., Michigan State University; Ntoumanis, Nikos, Curtin University

2:45-3:00 pm **Discrepancies and Agreement in Coach-Athlete Relationships and Implications for Athletes**  
Rocchi, Meredith, McGill University; Pelletier, Luc G., University of Ottawa

3:00-3:15 pm **The Role of Coaches in Preventing and Managing Alcohol Consumption of their Student-Athletes**  
Chow, Graig M.; Bird, Matthew D.; Soendergaard, Stinne, Florida State University

3:15-3:30 pm **Development and Evaluation of a Training Program on Need-Supportive Coaching: Findings on the Appreciation by Coaches and the Role of Experienced Psychological Need Satisfaction**  
Aelterman, Nathalie, Ghent University, Belgium; Vansteenkiste, Maarten; De Muynck, Gert-Jan; Delrue, Jochen, Ghent University, Belgium; Reynders, Bart; Vande Broek, Gert, University of Leuven; Haerens, Leen, Ghent University, Belgium

3:30-3:45 pm **Examining interpersonal style in the coach-athlete relationship**  
Surya, Mark, Wilfred Laurier University; Sadler, Pamela; Eys, Mark, Wilfrid Laurier University

**20 Motor Learning and Control - Types of Learning and Feedback (Macaw)**

Moderator: Dick Magill, Teachers College, Columbia University, United States

2:15-2:30 pm **Changing the Type of KR Affects the Learning of a Line-drawing Task**

Fisher, Kevin; Gregorski, Megan; Bundy, Michaela, Central Michigan University

2:30-2:45 pm **Self-controlled Feedback: When and Why Subjects Ask for Feedback**

Gonin, Madeleine; Hatfield, Brent, Indiana University; Shea, John B., Indiana University Bloomington

2:45-3:00 pm **Autonomy facilitates repeated maximum force productions**

Iwatsuki, Takehiro, University of Nevada, Las Vegas; Abdollahipour, Reza; Psotta, Rudolf, Palacky University, Olomouc; Lewthwaite, Rebecca, Rancho Los Amigos National Rehabilitation Center; Wulf, Gabriele, University of Nevada, Las Vegas

3:00-3:15 pm **Application of Representative Learning Design for assessment of common practice drills in tennis**

Krause, Lyndon M.; Farrow, Damian, Victoria University; Reid, Machar, University of Western Australia; Buszard, Tim, Victoria University; Pinder, Ross, Australian Paralympic Committee

3:15-3:30 pm **Motor performance and mental workload assessment during practice of reaching movements in a context of team dynamics**

Shuggi, Isabelle M., University of Maryland College Park; Shewokis, Patricia A., Drexel University; Herrmann, Jeffrey W.; Gentili, Rodolph J., University of Maryland

3:30-3:45 pm **Enhancing Performance Expectancies Through Visual Illusions Facilitates Motor Learning in Children**

Wulf, Gabriele, University of Nevada, Las Vegas; Bahmani, Moslem; Ghadiri, Farhad; Karimi, Saeed, Kharazmi University; Lewthwaite, Rebecca, Rancho Los Amigos National Rehabilitation Center and University of Southern California; Chua, Lee-Kuen, University of Nevada, Las Vegas

**21 Motor Development - Conceptual & Assessment Issues in Motor Competence (Toucan)**

Moderator: Michael G. Wade, University of Minnesota, United States

2:15-2:30 pm **Are movement skills fundamental or foundational? Conceptualizing movement skill development for participation in physical activity**

Hulteen, Ryan M.; Morgan, Philip J., University of Newcastle; Barnett, Lisa M., Deakin University; Stodden, David F., University of South Carolina; Lubans, David R., University of Newcastle

2:30-2:45 pm **Fundamental motor skills: A systematic review of terminology**  
 Logan, Sam W.; Ross, Samantha M.; Chee, Keanu, Oregon State University; Stodden, David F., University of South Carolina; Robinson, Leah E., University of Michigan

2:45-3:00 pm **The Athletic Skills Track: age- and gender-related normative values of a motor skills test for 40 to 12-year-old children**  
 Hoeboer, Joris; Krijger-Hombergen, Michiel; Ongena, Guido; Stolk, Erik, The Hague University of Applied Sciences; Savelsbergh, Geert, VU University Amsterdam; de Vries, Sanne I, The Hague University of Applied Sciences

3:00-3:15 pm **Associations of Product and Process Oriented Motor Competence with Energy Expenditure**  
 Sacko, Ryan S., University of South Carolina; Utesch, Till; Eggelbusch, Moritz, University of Muenster; Stodden, David F., University of South Carolina

3:15-3:30 pm **A Delphi poll investigation to establish the content of a teacher-oriented assessment of children's fundamental movement skills**  
 van Rossum, Tom, Sheffield Hallam University; Morley, David; Richardson, David; Fowweather, Lawrence, Liverpool John Moores University

3:30-3:45 pm **The Developmental Sequences for Forceful Kicking**  
 Sacko, Ryan S., University of South Carolina; Utesch, Till, University of Muenster; Cordovil, Rita, University of Lisbon; De Meester, An, Ghent University, Belgium; Eggelbusch, Moritz, University of Muenster; Bott, Tim, The Citadel; Stodden, David F., University of South Carolina

Tuesday June 6

**26 Sport and Exercise Psychology - Mental Health, Perfectionism, and Burnout (Kon Tiki)**

Moderator: Sarah Ullrich-French, Washington State University, United States

8:00-8:15 am **Body-Related Emotions and Psychological Stress in Physically Active Breast Cancer Survivors**  
 Vani, Madison F.; Sabiston, Catherine M., University of Toronto

8:15-8:30 am **A test of the diathesis-stress model of perfectionism following repeated interpersonal failure on a cycle ergometer task**  
 Curran, Thomas, University of Bath; Hill, Andrew P., York St John University



8:30-8:45 am **Perfectionism and Burnout in Athletes - A Meta-Analysis**  
 Busch, Lena; Buerkner, Paul-Christian; Schuecker, Linda; Holling, Heinz; Strauss, Bernd, University of Muenster

8:45-9:00 am **New Perspective of Burnout Syndrome: Body Movement of Burnout Patients. A Controlled Study**  
 Pfeffer, Manuela M.; Paletta, Andrea, University of Graz

9:00-9:15 am **Exploring Mental Health Among Ultra-Marathon Runners**  
 Watenmaker, Aaron; Wilson, Kathleen; Englar-Carlson, Matt, California State University Fullerton

9:15-9:30 am **Targeting Mental Health Stigma among Ultra-marathon Runners using a Brief Video Social Contact Intervention**  
 Watenmaker, Aaron; Wilson, Kathleen; Englar-Carlson, Matt, California State University Fullerton

**27 Sport and Exercise Psychology - Youth Sport - Behavior, Motivation and Measurement (Board Room)**

Moderator: Leapetswe Malete, Michigan State University, United States

8:00-8:15 am **The influence of parent and child gender on goals and verbal sideline behavior in organized youth sport**  
 Cook, Emily; Rose, Travis; Grimm, Marshall X.; Dorsch, Travis E., Utah State University

8:15-8:30 am **Parents' stressors and coping strategies during elite tennis junior Swiss tournaments**  
 Schmid, Olivier N.; Schmid, Juerg, University of Bern

8:30-8:45 am **The dynamic nature of self-determined motivation among elite youth soccer players: Comparisons across age and skill in a combined prospective and cross-sectional design**  
 Hendry, David T.; Crocker, Peter R.E., University of British Columbia; Williams, A. Mark, University of Utah; Hodges, Nicola J., University of British Columbia

8:45-9:00 am **Pride Better Predicts Intention to Return to Youth Sport than do Basic Psychological Needs**  
 Balish, Shea M.; Gilchrist, Jenna, University of Toronto; Rainham, Daniel; Blanchard, Chris, Dalhousie University; Sabiston, Catherine, University of Toronto

9:00-9:15 am **Invariance testing and factor analysis of the Group Conflict Questionnaire**  
 Paradis, Kyle F., University of Western Ontario; Martin, Luc J., Queens University; Harenberg, Sebastian, Ithaca College

9:15-9:30 am **Identifying response biases in sport data**

Strauss, Bernd; Utesch, Till, University of Muenster; Büsch, Dirk, College of Technique and Art, Germany; Meier, Henk E., University of Muenster

**28 Motor Learning and Control - Types of Practice and Transfer (Macaw)**

Moderator: Deanna Kennedy, Texas A&M University, United States

8:00-8:15 am **Does scaling sports equipment facilitate implicit motor learning?**

Buszard, Tim; Whiteside, David, Victoria University; Reid, Machar, Tennis Australia; Masters, Rich, University of Waikato; Farrow, Damian, Victoria University

8:15-8:30 am **The acquisition processes of adaptability among differentiated patterns at early stages of learning of fundamental skill in juggling.**

Yamamoto, Kota; Shinya, Masahiro; Kudo, Kazutoshi, The University of Tokyo

8:30-8:45 am **Expecting to teach enhances motor learning and information processing during practice**

Daou, Marcos; Lohse, Keith R.; Miller, Matthew W.; Rhoads, Jence, Auburn University

8:45-9:00 am **Perceptual-Motor Recalibration Provides a Window into Motor Skill Transfer**

Mayo, Anthony M.; Anderson, David I., San Francisco State University; Rieser, John J., Vanderbilt University; Kruse, Brenna; Pick Jr, Herb L., University of Minnesota

9:00-9:15 am **Training and transfer of visual anticipation in skilled cricket batsmen**

Brenton, John; Muller, Sean; Dempsey, Alasdair, Murdoch University

9:15-9:30 am **Experimentally impaired foveal vision improves peripheral performance**

Vater, Christian; Spoerri, Nicole; Hossner, Ernst-Joachim, University of Bern

**29 Motor Development - Investigating & Promoting Motor Competence in the Early Childhood Years (Toucan)**

Moderator: Kathleen Williams, University of North Carolina at Greensboro, United States

8:00-8:15 am **Examining the impact of SKIP training for teachers on children's motor development in the Foundation Phase.**  
Wainwright, Nalda N., University of Wales Trinity Saint David; Goodway, Jacqueline D., The Ohio State University; John, Amanda A.; Edwards, Kirsty A.; Piper, Kate A., University of Wales Trinity Saint David

8:15-8:30 am **The Impact of the Summer Success Program on Children's Motor Competence and Perceived Motor Competence**  
Tsuda, Emi; Famelia, Ruri; Goodway, Jacqueline D., The Ohio State University

8:30-8:45 am **Physical education versus free play in motor skill development of preschoolers**  
Howard-Shaughnessy, Candice, Troy University; Taunton, Sally; Brian, Ali, University of South Carolina; Sluder, Brandon, Troy University

8:45-9:00 am **Mastery Motivational Climate: Examining the Relationship Between Time Spent and Number of Visits at Skill Stations with Changes in Skill Scores**  
Ljohnson, Jerraco Leontae; Hastie, Peter; Rudisill, Mary E., Auburn University

9:00-9:15 am **Exploring the Physical Activity, Actual Motor Competence and Perceived Motor Competence of Urban and Rural Indonesian Preschoolers**  
Famelia, Ruri; Goodway, Jacqueline D., The Ohio State University; Bakhtiar, Syahrial, State University of Padang

9:15-9:30 am **The role of cognitive change in the relationship between actual and perceived motor competence in young children**  
Bardid, Farid, University of Strathclyde; Goodway, Jacqueline D., The Ohio State University; Lenoir, Matthieu, Ghent University, Belgium

**33 Sport and Exercise Psychology - Mo and Thelma, have we been listening? The application and utility of viewing youth sport through a developmental lens (Kon Tiki)**

Organizer: Travis Dorsch, Utah State University, United States

Discussant: Maureen Weiss, University of Minnesota, United States; Thelma Horn, Miami University, United States

Moderator: Gordon Bloom, McGill University, Canada

3:45-3:52 pm **Mo and Thelma, have we been listening? The application and utility of viewing youth sport through a developmental lens**  
Dorsch, Travis E., Utah State University

3:52-4:04 pm **It's not what you say, but how you say it: The impact of parents' goal profiles on vocal emotional arousal during organized youth sport competitions**

Grimm, Marshall X.; Dorsch, Travis E., Utah State University

4:04-4:16 pm **Sibling relationship profiles and sport perceptions in young athletes**

Blazo, Jordan A., Louisiana Tech University; Smith, Alan L., Michigan State University; Whiteman, Shawn D., Utah State University

4:16-4:28 pm **Positive youth development and observed interpersonal interactions in recreational sport**

Vierimaa, Matthew, Utah State University; Bruner, Mark, Nipissing University; Cote, Jean, Queens University

4:28-4:40 pm **Coaching for Youth Development**

Cote, Jean; Turnnidge, Jennifer, Queens University; Vierimaa, Matthew, Utah State University

### 34 Sport and Exercise Psychology - Exercise and Cognition (Board Room)

Moderator: Yu Kai Chang, National Taiwan Sport University

3:45-4:00 pm **Dose-response effects of acute exercise on inhibition in children with ADHD**

Hung, Tsung-Min; Tsai, Yu-Jung, National Taiwan Normal University; Huang, Chung-Ju, University of Taipei

4:00-4:15 pm **Social exclusion may undermine the fitness-executive function association in children at-risk for ADHD**

Delli Paoli, Anthony G., Michigan State University; Shoulberg, Erin K.; Schmidt, Andrew, University of Vermont; Oluyedun, Olufemi A., Michigan State University; Hoza, Betsy, University of Vermont; Smith, Alan L., Michigan State University

4:15-4:30 pm **Daily Physical Education for Academic Fitness**

Etnier, Jennifer L., University of North Carolina at Greensboro; Gaddy, John, Central Elementary School; Labban, Jeffrey D., University of North Carolina at Greensboro

4:30-4:45 pm **Exergaming intervention to foster executive functions in children with attention deficit hyperactivity disorder: preliminary results from a clinical trial**

Benzing, Valentin; Schmidt, Mirko, University of Bern

4:45-5:00 pm **Examining the effects of physical exercise and cognitive training on memory and neurotrophic factors**  
 Heisz, Jennifer J.; Clark, Ilana B.; Bonin, Katija; Paolucci, Emily M.; Michalski, Bernadeta; Becker, Suzanna; Fahnestock, Margaret, McMaster University

5:00-5:15 pm **Recent Physical Activity and Resting-State Brain Connectivity**  
 Slutsky, Alexis B.; Diekfuss, Jed A.; Schmitz, Randy J., University of North Carolina at Greensboro; Grooms, Dustin R., The Ohio State University; Raisbeck, Louisa D., University of North Carolina at Greensboro

**35 Motor Learning and Control - Attentional Focus (Macaw)**

Moderator: Gabriele Wulf, University of Nevada, Las Vegas, United States

3:45-4:00 pm **The effects of attentional focus in the preparation and execution of a standing long jump**  
 Becker, Kevin A., Texas Woman's University; Couvillion, Kaylee F.; Fairbrother, Jeffrey T., University of Tennessee Knoxville

4:00-4:15 pm **The Effects of attentional focus on limb loading in individuals following anterior cruciate ligament reconstruction**  
 Chan, Ming-sheng M.; Lin, Paige E.; Hernandez, Emily L.; Fisher, Beth E.; Sigward, Susan M., University of Southern California

4:15-4:30 pm **External focus of attention and autonomy support have additive benefits for motor performance in children**  
 Abdollahipour, Reza, Palacky University Olomouc; Nieto, Miriam Palomo, Universidad Politecnica de Madrid; Psotta, Rudolf, Palacky University Olomouc; Wulf, Gabriele, University of Nevada Las Vegas

4:30-4:45 pm **The Effect of Attentional Focus Training on Ladder Stability**  
 Wade, Eric R.; Hall, Latano; Fairbrother, Jeffrey, University of Tennessee Knoxville

4:45-5:00 pm **Optimizing motor learning: Matching individual differences in working memory capacity to different learning interventions**  
 Canal-Bruland, Rouwen, University of Jena; Kishna, Kevin; der Zande, Jesse van; der Kamp, John van, Vrije Universiteit Amsterdam

5:00-5:15 pm **Examining visual and attentional focus influences on golf putting performance**  
 Forbes, Michael A.; Ste-Marie, Diane M., University of Ottawa

**36 Motor Development - Motor Skills and Physical Activity in Young Children: Potential Factors that Influence Self-Regulation (Toucan)**

Organizer: Leah E. Robinson, University of Michigan, United States

Discussant: Sam Logan, Oregon State University, United States

Moderator: Lisa Barnett, Deakin University, Australia

3:47-3:59 pm **Motor Skills and Physical Activity in Young Children: Potential Factors that Influence Self-Regulation**

Robinson, Leah E., University of Michigan

3:59-4:11 pm **Educating the 'Whole' Child with Physical Activity Games: Self-regulation outcomes in the Classroom and Mediating Skills**

Pesce, Caterina; Marchetti, Rosalba, Italian University Sport and Movement; Schmidt, Mirko, University of Bern

4:11-4:23 pm **Relationship between Motor Skills and Self-Regulation in Preschoolers from Diverse Backgrounds.**

Palmer, Kara; Chinn, Katherine; Conroy, Colleen; Persad, Catherine C.; Bala, Cecilia; Brown, Matthew; Miller, Alison; Robinson, Leah E., University of Michigan

4:23-4:35 pm **Relationships between motor skill delay and executive functions in vulnerable children aged 3-5 years**

Okely, Anthony; Howard, Steven; de Rosnay, Marc; Mackie, Franca; C Veldman, Sanne L.; Melhuish, Ted, University of Wollongong

4:35-4:47 pm **Early Self-Regulation and Motor Challenges May Be Barriers to Participation in Physical Activity**

Lakes, Kimberley, University of California Irvine; Abdullah, Maryam, University of California, Irvine; Aizik, Shlomit, University of California Irvine

4:47-4:59 pm **Evaluation of a structured physical activity intervention for whole-child development in preschool: A randomized controlled trial**

Vazou, Spyridoula; Smiley-Oyen, Ann, Iowa State University

Wednesday June 7

**41 Sport and Exercise Psychology - Athletic Performance: Fatigue, Feedback, and Pressure (Kon Tiki)**

Moderator: Diane Gill, University of North Carolina at Greensboro, United States

8:00-8:15 am **Communicating the corrective feedback as legitimate, basic psychological needs and well-being of soccer players: A longitudinal analysis**

Tristan, Jose L.; Barbosa-Luna, Adrian E.; Gonzalez-Gallegos, Alejandra G., Universidad Autonoma de Nuevo Leon; Tomas, Ines, Universitat de Valencia; Lopez-Walle, Jeanette, Universidad Autonoma de Nuevo Leon

8:15-8:30 am **Enhancing adolescent's concentration and creativity: Feedback matters!**

Schmidt, Mirko; Benzing, Valentin, University of Bern

8:30-8:45 am **The Effects of Fatigue on Soccer Passing Performance and the Role of Motivation**

Barte, Jeroen C.M.; Nieuwenhuys, Arne, Radboud University; Geurts, Sabine A.E., Radboud University Nijmegen; Kompier, Michiel A.J., Radboud University

8:45-9:00 am **Perfectionists under pressure: Testing their performance under low and high pressure across different motor tasks**

Geukes, Katharina, Westfaelische Wilhelms-University Muenster; Mundelsee, Lukas; Wiese, Christine, Westfaelische Wilhelms Universitaet-Muenster; Mesagno, Christopher, Federation University Australia; Hanrahan, Stephanie J., University of Queensland; Kellmann, Michael, Ruhr-University Bochum; Back, Mitja D., Westfaelische Wilhelms-University Muenster

9:00-9:15 am **Expert-novice differences in visual behaviour during alpine slalom skiing**

Vansteenkiste, Pieter, Ghent University, Belgium; Decroix, Marjolein; Norjali Wazir, Mohd Rozilee; Zeuwts, Linus; Deconinck, Frederik; Lenoir, Matthieu, Ghent University, Belgium

## 42 Sport and Exercise Psychology - Exercise Performance (Board Room)

Moderator: Christopher Janelle, University of Florida, United States

8:00-8:15 am **Effects of Cognitive Control Exertion and Motor Coordination on Task Self-Efficacy and Muscular Endurance Performance in Children**

Graham, Jeffrey D.; Li, Yao-Chuen; Bray, Steven R., McMaster University; Cairney, John, University of Toronto

8:15-8:30 am **Negative effects of cognitive control exertion on physical endurance performance and muscle activation are attenuated by monetary incentive**

Brown, Denver M.Y.; Bray, Steven R., McMaster University

8:30-8:45 am **Diversity in Group Exercise Contexts: Further Tests of the Kohler Effect**  
 Moss, Omotayo; Mac Intosh, Andrew; Kerr, Norb; Feltz, Deborah, Michigan State University

8:45-9:00 am **Mental fatigue affects perceived exertion in whole-body cardiovascular exercise.**  
 Langvee, Jason; Harris, Sheereen; Brown, Denver; Bray, Steven, McMaster University

9:00-9:15 am **Well-Being Self-Efficacy and Complier Average Causal Effect Estimation: A Substantive-Methodological Synergy**  
 Myers, Nicholas D., Michigan State University; Prilleltensky, Isaac, University of Miami; Hill, Christopher R.; Feltz, Deborah L., Michigan State University

**43 Motor Learning and Control - Exercise Interventions and Motor Control (Macaw)**

Moderator: Karl Newell, University of Georgia, United States

8:00-8:15 am **Exercise intensity may affect variability and complexity of stride time differently.**  
 Wittstein, Matthew; Hadgis, Nicholas; Moisand, Megan, Elon University

8:15-8:30 am **Changes in functional exercise capacity mediate the relationship between assisted cycling cadence and gross motor adaptive behaviors in adolescents with Down syndrome**  
 Holzapfel, Simon D.; Ringenbach, Shannon D.; Cook, Megan R.; Pandya, Sachin, Arizona State University

8:30-8:45 am **Gait Decline in Healthy Aging: Does Accounting for Physical Activity Level the Playing Field?**  
 Ducharme, Scott W.; van Emmerik, Richard E.A., University of Massachusetts, Amherst

8:45-9:00 am **Local stability of center of mass improves from a 10-minute trip-training session**  
 Cone, Brian L.; Kuznetsov, Nikita A., University of North Carolina at Greensboro; Lockhart, Thurmon E., Arizona State University; Rhea, Christopher K., University of North Carolina at Greensboro

9:00-9:15 am **Dynamical Degrees of Freedom in Abdominal Surface Electromyography**  
 King, Adam, Texas Christian University



**44 Motor Development - Gross and Fine Motor Competence and Correlates in Children (Toucan)**

Moderator: Matthieu Lenoir, University of Ghent, Belgium

8:00-8:15 am **Developmental changes in drop-land and drop-land-run decisions in typically developing children**  
 Angulo-Barroso, Rosa M., California State University; Rosales, Marcelo, California State University Northridge; Busquets, Albert, INEFC, University of Barcelona; Romack, Jennifer, California State University Northridge

8:15-8:30 am **A longitudinal analysis of fine motor skill proficiency in Primary School Children**  
 Issartel, Johann; Gaul, David, Dublin City University

8:30-8:45 am **Establishing the Microsoft Kinect as a fundamental movement skill observation tool**  
 Ward, Brodie J.; Rosenberg, Michael; Thornton, Ashleigh L.; Lay, Brendan S., University of Western Australia

8:45-9:00 am **The importance of accuracy in overweight and underweight children's perceived motor competence for future physical activity**  
 Utesch, Till; Dreiskaemper, Dennis; Naul, Roland; Geukes, Katharina, University of Muenster

9:00-9:15 am **Multiple roads lead to San Diego: Effects of a motor skill vs. fitness intervention on motor skill development and executive function in kindergarten children**  
 Schott, Nadja; Schuhmacher, Benjamin; Holfelder, Benjamin, University of Stuttgart

**45 Motor Learning and Control - Prediction and Anticipation (Cockatoo)**

Moderator: Digby Elliot, McMaster University, Canada

8:00-8:15 am **Effect of concurrent hand movement on prediction motion**  
 Zheng, Ran; Maraj, Brian, University of Alberta

8:15-8:30 am **Identifying the critical relative motion information to recognize patterns in dynamic displays consisting of multiple objects**  
 North, Jamie S., St Mary's University, Twickenham, London; Hope, Ed, Liverpool John Moores University; Williams, A. Mark, University of Utah

8:30-8:45 am **Anticipatory awareness of action in adults diagnosed with Developmental Coordination Disorder**  
 Deconinck, Frederik J.A., Ghent University, Belgium; Verhaeghe, Aron; Degroote, Laurent, Ghent University, Belgium

8:45-9:00 am **Effector transfer effects in motor simulation during action prediction**  
 Mulligan, Desmond; Chan, Brennan; Kuehne, Mareike; Hodges, Nicola J., University of British Columbia

9:00-9:15 am **Contextual Information in Anticipation Performance: A Novel Test of Cognitive Load Theory**  
 Runswick, Oliver R.; Roca, Andre, St Mary's University, Twickenham, London; Williams, A. Mark, University of Utah; McRobert, Alistair P., Liverpool John Moores University; Bezodis, Neil E., Swansea University; North, Jamie S., St Mary's University, Twickenham

**48 Sport and Exercise Psychology - Coach-Athlete Relationships: Global and Effective Coaching Practices (Kon Tiki)**

Organizer: Gordon Bloom, McGill University, Canada

Discussant: Wade Gilbert, California State University, Fresno, United States

Moderator: Travis Dorsch, Utah State University, United States

11:15 am -11:17 am **Introduction**  
 Bloom, Gordon A.

11:18 am -11:33 am **Coach-athlete relationship quality as a gauge of coaching effectiveness**  
 Jowett, Sophia, Loughborough University

11:34 am -11:49 am **High performance coaches' perspectives on managing difficult athletes**  
 Bloom, Gordon A.; Heelis, Liam; Caron, Jeffrey G., McGill University

11:50 am -12:05 pm **Emotional intelligence as a predictor of conflict responses and coach-athlete relationship quality**  
 Wachsmuth, Svenja; Jowett, Sophia; Harwood, Chris, Loughborough University

12:05 pm -12:20 pm **Coach support and the injured athlete: Are athletes' getting what they need?**  
 Podlog, Leslie, University of Utah

**49 Sport and Exercise Psychology - Exercise Promotion (Board Room)**

Moderator: Deborah Feltz, Michigan State University, United States

11:15 am -11:30 pm **How Pokemon Makes People GO: Incentive Apps and Physical Activity**  
 Utesch, Till; Mentzel, Stijn V.; Dreiskaemper, Dennis; Tietjens, Maike, University of Muenster; Hinkley, Trina; Barnett, Lisa M., Deakin University

11:30 am -11:45 am **Will you go farther with Pokemon Go?: Walking for Leisure Versus During the Game**  
 Locke, Sean, University of British Columbia; Gierc, Madelaine S.H.; Brawley, Lawrence R., University of Saskatchewan

11:45 am -12:00 pm **The Effects of A Charitable Cause on Physical Activity Motivation**  
 Gurleyik, Duygu; Feltz, Deborah L., Michigan State University

12:00 pm -12:15 pm **Compensation following HIIT training in women: A tale of two interventions.**  
 Wadsworth, Danielle D.; Rodriquez, Mynor G.; Foote, Shelby J., Auburn University

12:15 pm -12:30 pm **Physical Activity Promotion in the Spinal Cord Injury Population: Potential Impact of Pain and Mode of Mobility** Todd, Kendra R.; Shaw, Robert B.; Martin Ginis, Kathleen A.; University of British Columbia

50 **Motor Learning and Control - Sleeping on the Motor Engram: The Multifaceted Nature of Sleep-Related Motor Memory Consolidation (Macaw)**

Organizer: Genevieve Albouy, KU Leuven, Belgium

Discussant: Bradley R. King, KU Leuven, Belgium

Moderator: Bob Christina, University of North Carolina at Greensboro, United States

11:15 am -11:30 am **Enhancing performance across the healthy adult lifespan: Behavioral and neural correlates of sleep-facilitated motor sequence memory consolidation**  
 Albouy, Genevieve; King, Brad, KU Leuven

11:30 am -11:45 am **Neuroplasticity and sleep-related consolidation: Insights from motor imagery practice**  
 Debarnot, Ursula, University Claude Bernard Lyon; Schwartz, Sophie, University of Geneva; Guillot, Aymeric, University Claude Bernard Lyon

11:45 am -12:00 pm **Specificity of sleep spindles in motor memory consolidation**  
 Boutin, Arnaud, University of Montreal

12:00 pm -12:15 pm **The impact of sleep on gross motor learning / adaptation**  
 Hoedlmoser, Kerstin, University of Salzburg

**51 Motor Development - Parental and Socio-cultural Influences on Actual & Perceived Motor competence (Toucan)**

Moderator: Jody Jensen, The University of Texas at Austin, United States

11:15 am -11:30 am **Motor competence in children from an Asian-Australian background compared to children from an English-speaking (European) background**

Rudd, James, Liverpool John Moores; Strugnell, Claudia A., Deakin University; Telford, Rohan M.; Telford, Richard D., University of Canberra; Olive, Lisa S.; Barnett, Lisa M., Deakin University

11:30 am -11:45 am **Cross-cultural assessment and comparison of motor competence in 5- and 6-year-old children from Belgium and Greece using the BOT-2 SF: A critical look at potential country and gender differences.**

D'Hondt, Eva, Vrije Universiteit Brussel; Venetsanou, Fotini, National and Kapodistrian University of Athens; Kambas, Antonis, Democritus University of Thrace; Lenoir, Matthieu, Ghent University, Belgium

11:45 am -12:00 pm **Parents and the Pygmalion Effect: Exploring relations between parent efficacy beliefs and children's fundamental movement skills**

Clancy, Carolyn; Jackson, Ben; Dimmock, James A.; Thornton, Ashleigh L., The University of Western Australia

12:00 pm -12:15 pm **Parents as Early Teachers of Motor Skill**

Haywood, Kathleen M.; Salman, Ibtihal D., University of Missouri-St. Louis

12:15 pm -12:30 pm **Who can best report on children's actual motor skill competence: children, parents or teachers?**

Estevan, Isaac; Molina-García, Javier; Álvarez, Octavio, University of Valencia; Barnett, Lisa M., Deakin University

**52 Motor Learning and Control - Lower Limb Motor Control (Cockatoo)**

Moderator: Jeffrey Haddad, Purdue University, United States

11:15 am -11:30 am **Convergent validity of metrics provided by a portable gait assessment protocol**

Kuznetsov, Nikita A., University of North Carolina at Greensboro; Robins, Becca K., Temple University; Jakiela, Jason; Lojacono, Chanel; Ross, Scott, University of North Carolina at Greensboro; MacPherson, Ryan, Cincinnati Children's Hospital; Long, Ben, ReverbNation; Haran, Jay, Naval Submarine Medical Research Laboratory; Wright, William G., Temple University; Rhea, Christopher K., University of North Carolina, Greensboro

11:30 am -11:45 am **Alteration of gait characteristics during music listening: The role of emotion and rhythm**  
 Park, Kyoung Shin; Lee, Hyokeun, University of Florida; Fawver, Bradley, University of Utah; Hass, Chris J.; Janelle, Christopher M., University of Florida

11:45 am -12:00 pm **Peripheral Component of Reaction Time on the Lower Extremity Related to Fall Risk in the Female Elderly**  
 Li, Zongtao, Qufu Normal University; Lai, Qin, Wayne State University

12:00 pm -12:15 pm **Can young healthy adults walk randomly?**  
 Russell, Daniel M., Old Dominion University; Thomas, Kathleen S., Norfolk State University; Morrison, Steven, Old Dominion University

12:15 pm -12:30 pm **Motor control and balance bikes**  
 Kavanagh, Jennifer; Issartel, Johann; Moran, Kieran, Dublin City University

**54 Sport and Exercise Psychology - Nonverbal behavior and person perception in sports (Kon Tiki)**

Organizer: Philip Furley, German Sport University, Cologne & Mirko Wegner, University of Bern, Switzerland

Discussant: Philip Furley, German Sport University, Cologne

Moderator: Sophia Jowett, Loughborough University, United Kingdom

2:00-2:05 pm **Symposium Overview**  
 Furley, Philip A., German Sport University Cologne; Wegner, Mirko, University of Bern

2:06-2:18 pm **Nonverbal behavior in sport: An evolutionary perspective**  
 Furley, Philip A., German Sport University Cologne; Schweizer, Geoffrey, University of Heidelberg

2:18-2:30 pm **The implicit power motive helps identifying nonverbal sport behavior**  
 Wegner, Mirko, University of Bern; Furley, Philip, German Sport University Cologne; Schweizer, Geoffrey, University of Heidelberg

2:30-2:42 pm **On top of the rock? Effects of penalty takers' body language on impression formation, gaze behavior and goalkeepers' anticipation performance in soccer**  
 Bijlstra, Gijs, Radboud University; Smeekens, Marjam; Nieuwenhuys, Arne, Radboud University Nijmegen

2:42-2:54 pm **Reputation bias in football players' and coaches' judgments of refereeing competence**  
 Oldfield, Luke; Manley, Andrew J., Leeds Beckett University;  
 Thelwell, Richard, University of Portsmouth

**55 Sport and Exercise Psychology - Physical Activity Predictors (Boardroom)**

Moderator: Katie Gunell, Children's Hospital of Eastern Ontario Research Institute, Canada

2:00-2:15 pm **Metacognition and physical activity in older adults: a discriminant analysis**  
 Andre, Nathalie, University of Poitiers; Ferrand, Claude, University of Tours; Albinet, Cedric, Institut National Universitaire Champollion; Audiffren, Michel, University of Poitiers

2:15-2:30 pm **Employing the Reflective-Impulsive Model to predict a spontaneous physical activity behavior**  
 Daou, Marcos; Sassi, Julia Montagner; Lohse, Keith R.; Miller, Matthew W., Auburn University

2:30-2:45 pm **Identifying Predictors of Intentions to Implement Inclusive Physical Education**  
 Tristani, Lauren; Bassett-Gunter, Rebecca, York University;  
 Tomasone, Jennifer, Queens University

2:45-3:00 pm **Are Physical Education Experiences Associated with Physical Activity Attitudes and Intentions in Adulthood?**  
 Ladwig, Matthew A.; Ekkekakis, Panteleimon, Iowa State University

3:00-3:15 pm **#Motivation: Examining motivational aspects of, and physical activity associations with, fitness-related social media activity**  
 Tapia, Oddessy A.; Cesena, Michael Ryan; Ely, Frank O.; Mouat IV, James C.; Ylanan, Ryan S.; O, Jenny, California State University East Bay

**56 Motor Learning and Control - Motor Control in Special Populations (Macaw)**

Moderator: Quincy Almeida, Wilfrid Laurier University, Canada

2:00-2:15 pm **Lower extremity motor function improved after cycling in stroke survivors**  
 Holzapfel, Simon D.; Szeto, Monica; Ringenbach, Shannon D.; Lopez, Corinna, Arizona State University

2:15-2:30 pm **Does complex skill practice transfer to simpler skills for the weaker arm after stroke?**  
 Kantak, Shailesh, Moss Rehabilitation Research Institute

2:30-2:45 pm **Motor-cognitive interference in dual task mobility: allocation of resources in PD patients**  
 Schott, Nadja; Klotzbier, Thomas; Pley, Christina; Uhl, Anna-Lena; Sanftmann, Beate, University of Stuttgart; Almeida, Quincy J., Movement Disorders Research & Rehabilitation Centre, Wilfrid Laurier University, Waterloo

2:45-3:00 pm **Comparing the Influence of Cognitive, Sensorimotor, and Limbic Triggers of Freezing of Gait in Parkinson's Disease**  
 Chow, Rebecca, Wilfrid Laurier University; Tripp, Bryan, University of Waterloo; Almeida, Quincy J., Wilfrid Laurier University

3:00-3:15 pm **Attentional focus effects in children with visual impairments**  
 McNamara, Scott W.T.; Becker, Kevin A.; Silliman-French, Lisa, Texas Woman's University

**57 Motor Development - Research on Typically and Atypically Developing Infants (Toucan)**

Moderator: Beverly Ulrich, University of Michigan, United States

2:00-2:15 pm **Infants at high-risk for ASD exhibit longer fixation durations than infants at low-risk**  
 Averhoff, Alyssa; Motz, Zach; Wickstrom, Jordan; Kyvelidou, Anastasia, University of Nebraska at Omaha

2:15-2:30 pm **Influence of reaching on 7-month-old infants' visual attention**  
 Wiener, Rebecca F.; Corbetta, Daniela, University of Tennessee Knoxville

2:30-2:45 pm **Sitting Postural Sway of 12-Month-Old Infants at Low and High Risk of Autism Spectrum Disorder**  
 Arnold, Amanda J.; Harris, Rachel C.; Liddy, Joshua J.; Schwichtenberg, A.J.; Claxton, Laura J., Purdue University

2:45-3:00 pm **Capturing Infant Naturalistic Use of Postures Using Network Analysis: A Longitudinal Study**  
 Thurman, Sabrina L.; Corbetta, Daniela, University of Tennessee Knoxville

**58 Motor Development - Motor Development in Adolecence & Young Adulthood (Cockatoo)**

Moderator: Nancy Getchell, University of Delaware, United States

2:00-2:15 pm **Does competency in lifelong physical activity skills predict physical activity and health-related fitness in Australian adolescents?**

Hulteen, Ryan M., University of Newcastle; Barnett, Lisa M, Deakin University; Morgan, Philip J., University of Newcastle; Robinson, Leah E., University of Michigan; Wrotniak, Brian H., D'Youville College; Lubans, David R., University of Newcastle

2:15-2:30 pm **Engaging Teachers, Motivating Students: A Pilot Cluster Randomised Controlled Trial to Improve Fundamental Movement Skill Proficiency in Pre-Adolescent Girls**

Lander, Natalie, Deakin University; Morgan, Philip, Newcastle University; Salmon, Jo; Barnett, Lisa, Deakin University

2:30-2:45 pm **Age-related differences in generalizing motor sequence learning depend on the sequence structure**

Du, Yue; Clark, Jane E., University of Maryland, College Park

2:45-3:00 pm **Longitudinal growth rates and gross motor proficiency in Canadian middle school boys and girls**

Sheehan, Dwayne; Lienhard, Karin, Mount Royal University

3:00-3:15 pm **The relationship between Supine-to-Stand and health-related fitness in young adults**

Nesbitt, Danielle R., University of South Carolina; Molina, Sergio L., Missouri Western State University; Robinson, Leah E., University of Michigan; Brian, Ali; Stodden, David F., University of South Carolina

## 59 Sport and Exercise Psychology - Athletic Performance (Kon Tiki)

Moderator: Joan Duda, University of Birmingham, United Kingdom

3:30-3:45 pm **Concussed athletes' psychological readiness to return to sport**

Caron, Jeffrey G.; Bloom, Gordon A., McGill University; Podlog, Leslie, University of Utah

3:45-4:00 pm **The relationships between trait self-control and health, academic and athletic behaviors among college athletes: A prospective study**

Stapleton, Jessie N., Missouri Baptist University; Josephs, Molly V., Southern Illinois University Edwardsville



4:00-4:15 pm **Challenge and Threat Appraisals as Mediators of the Link Between Autonomous versus Controlling Reasons Underlying Mastery-approach Goal Pursuit and Athletic Performance**

Delrue, Jochen, Ghent University, Belgium; Mouratidis, Athanasios, Hacettepe University, Ankara; Haerens, Leen; Gevaert, Kimberly, Ghent University, Belgium; Broek, Gert Vande, KU Leuven; Vansteenkiste, Maarten, Ghent University, Belgium

4:15-4:30 pm **Ironic or Overcompensating Error in Golf Putting: The Importance of Attention Imbalance**

Liu, Sicong; Meir, Gily; Boiangin, Nataniel; Cologgi, Kimberly; Lebeau, Jean-Charles; Basevitch, Itay; Tenenbaum, Gershon, Florida State University

4:30-4:45 pm **Peripheral perception as discriminant factor of tactical behavior efficiency of youth soccer players**

Andrade, Marcelo, Universidade Federal de Vicosa; Teoldo, Israel, Universidade Federal de Vicosa

## 60 Sport and Exercise Psychology - Exercise Motivation (Boardroom)

Moderator: Kathleen Martin-Ginis, University of British Columbia, Canada

3:30-3:45 pm **Success Dynamics in Physical Education: Application of Basic Psychological Needs Theory**

Garn, Alex C., Louisiana State University; Centeio, Erin E.; McCaughtry, Nate, Wayne State University

3:45-4:00 pm **Self-Determination Theory's Triple-Process Model to Explain Adaptive and Maladaptive Functioning**

Reeve, Johnmarshall, Korea University; Cheon, Sung Hyeon, Kangwon University

4:00-4:15 pm **A healthy choice: Autonomy support within an exercise session influences post-exercise food consumption**

Beer, Natalya; Guelfi, Kym J.; Dimmock, James A.; Jackson, Ben, The University of Western Australia

4:15-4:30 pm **Predicting exercise motivation and exercise behavior: A conditional process model testing the interaction between perceived variety and basic psychological needs satisfaction in exercise.**

Sylvester, Benjamin, The University of Toronto; Curran, Thomas, Bath; Standage, Martyn, Bath University; Sabiston, Catherine, University of Toronto; Beauchamp, Mark, University of British Columbia

4:30-4:45 pm **Training Group Exercise Class Instructors to Adopt a Motivationally-Adaptive Communication Style: A feasibility/pilot study**

Ntoumanis, Nikos; Thogersen-Ntoumani, Cecilie; Quested, Eleanor, Curtin University; Hancox, Jennie, University of Nottingham

**61 Motor Learning and Control - Neuroscience Perspective (Macaw)**

Moderator: Stephan Panzer, Saarland University

3:30-3:45 pm **The role of primary motor cortex on consolidation during motor sequence learning**

Chen, Jing; McCulloch, Austin; Park, Inchon; Buchanan, John J.; Kim, Taewon; Wright, David L., Texas A & M University

3:45-4:00 pm **Prefrontal cortex activation during sequence learning under high and low levels of contextual interference: A two-channel near-infrared spectroscopy study**

Immink, Maarten A., University of South Australia; Marino, Frank; Pointon, Monique, Charles Sturt University; Wright, David L., Texas A & M University

4:00-4:15 pm **Examining the role of interhemispheric inhibition of primary motor cortex on subsequent consolidation of sequence learning**

Chen, Jing; Kim, Hakjoo; Johnson, Brandon; Wright, David L., Texas A&M University

4:30-4:45 pm **Analogy instructions promote neural efficiency during performance of a push pass in field hockey**

van Duijn, Tina, University of Waikato; Hoskens, Merel, Vrije Universiteit Amsterdam; W. Masters, Rich S., University of Waikato

4:15-4:30 pm **The effects of an external focus of attention on brain activation during acquisition and retention**

Diekfuss, Jed A.; Slutsky, Alexis B., University of North Carolina at Greensboro; Grooms, Dustin R., The Ohio State University; Schmitz, Randy J.; Raisbeck, Louisa D., The University of North Carolina at Greensboro

**62 Motor Development - Motor Development in Obese Children & Children with Special Needs (Toucan)**

Moderator: Dale Ulrich, University of Michigan, United States

3:30-3:45 pm **Influence of High and Low Autonomy-Supportive Climates on Physical Activity in Children with and without Developmental Disability**

Johnson, Jerraco Leontae; Miedema, Benjamin; Pangelinan, Melissa G.; Converse, Brooke; Bridges, Claire; Irwin, Jacqueline M.; Buchanan, Alice; Rudisill, Mary E., Auburn University

3:45-4:00 pm **Triaxial physical activity in young children with and without motor coordination difficulties**

King-Dowling, Sara; Wellman, Sarah; Le, Tuyen; Rodriguez, Christine; Timmons, Brian W., McMaster University; Cairney, John, University of Toronto

4:00-4:15 pm **Motivations for participation in physical activity and movement interventions for children and adolescents with cerebral palsy: A systematic review**

Bridges, Claire E.; Pangelinan, Mary E.; Pangelinan, Melissa E., Auburn University

4:15-4:30 pm **Are morphological brain differences associated with motor difficulties in obese children?**

Augustijn, Mireille J.C.M., Ghent University, Belgium; Deconinck, Frederik J.A., Ghent University, Belgium; D'Hondt, Eva, Vrije Universiteit Brussel; Lenoir, Matthieu, Ghent University, Belgium; Caeyenberghs, Karen, Australian Catholic University

4:30-4:45 pm **Executive function and motor function in obese children**

Augustijn, Mireille J.C.M., Ghent University, Belgium; D'Hondt, Eva, Vrije Universiteit Brussel; Lenoir, Matthieu, Ghent University, Belgium; Caeyenberghs, Karen, Australian Catholic University; Deconinck, Frederik J.A., Ghent University, Belgium

### 63 Motor Learning and Control - Upper Limb Motor Control (Cockatoo)

Moderator: Howard Zelaznik, Purdue University, United States

3:30-3:45 pm **Movement-related cortical potentials of the bilateral deficit in dominant left- and right-handers**

Panzer, Stephan; Leinen, Peter, Saarland University; Shea, Charles H., Texas A & M University

3:45-4:00 pm **Unilateral and bilateral arm-hemisphere specializations and task specific modulation of the motor system**

Woytowicz, Elizabeth J.; Whitall, Jill; Westlake, Kelly P., University of Maryland School of Medicine

- 4:00-4:15 pm **Between and Within-Conditions Trade-Off in a Movement Speed-Accuracy Task**  
Pacheco, Matheus Maia, The University of Georgia; Hsieh, Tsung-Yu, National Taiwan Normal University; Newell, Karl M., The University of Georgia
- 4:15-4:30 pm **Experience with event timing does not alter emergent timing: further evidence for the robustness of event and emergent timing**  
Studenka, Breanna E.; Pope, Megan; Cummins, Daisha, Utah State University
- 4:30-4:45 pm **Increasing the Precision Demands of a Finger Force Production Task Leads to Reductions in Task-Relevant Motor Variability**  
Liddy, Joshua J.; Haddad, Jeffrey M.; Ambike, Satya, Purdue University

June 5, 2017

22 Poster Session #1

Topic **Motor Development**

Moderator Jackie Goodway, Ohio State University, United States; Mary Rudisill, Auburn University, United States

1 **Motor, but not cognitive ability, is associated to movement imagery capacity in children**

*Fuchs, Chadwick; Hudson, Susan; Young, Jessica; Cacola, Priscila, University of Texas at Arlington*

2 **Gross Motor Skills in Toddlers: Prevalence and sex differences**

*Veldman, Sanne L.C.; Sousa-Sa, Eduarda; Jones, Rachel A.; Santos, Rute; Okely, Anthony D., University of Wollongong*

3 **Parental perception of potential Developmental Coordination Disorder and children's actual motor ability**

*Luciana, Ferreira; Vieira, Jose LL; Silva, Pamela N.; Rocha, Francielli F.; Cheuczuk, Francielle, Maringa State University; Cacola, Priscila M., University of Texas at Arlington*

4 **The relationship between fundamental motor skills and levels of physical activity is mediated by children perceived competence?**

*Zanella, Larissa W.; Bandeira, Paulo F.; de Souza, Mariele Santayana; Nobre, Glauber C., Universidade Federal do Rio Grande do Sul; Sartori, Rodrigo, Universidade Federal do Rio Grande do Sul and Pontificia Universidade Católica do Rio Grande do Sul; Valentini, Nadia C., Universidade Federal do Rio Grande do Sul*

5 **Look and reach behaviors in 9-month-old infants: Comparing between eye-trackers**

*Connell, John P., University of Tennessee, Knoxville; DiMercurio, Abigail; Romano, Alexandra C., University of Tennessee Knoxville; Reynolds, Greg, University of Tennessee, Knoxville; Corbetta, Daniela, University of Tennessee Knoxville*

6 **Measuring School-Day Physical Activity using Ankle Accelerometry in Preschoolers: A Pilot Study**

*Palmer, Kara K.; Colabianchi, Natalie; Chinn, Katherine M.; Robinson, Leah E., University of Michigan*

7 **Relationship between Cognitive Level and Sitting Posture in Infants at low and high risk for ASD**

*Wehrle, Lauren; Wickstrom, Jordan; Motz, Zachary; Kyvelidou, Anastasia, University of Nebraska at Omaha*

## NASPSPA Posters

- 8 **Preschool teachers' readiness for promoting gross motor competence and physical activity in young children: An observational study**  
*Pennell, Adam; Brian, Ali; Schenkelberg, Michaela; Sacko, Ryan, University of South Carolina*
- 9 **6-8-Year-Old Children's Posture is Similar While Viewing Social and Non-Social Stimuli**  
*Wickstrom, Jordan; Averhoff, Alyssa; Wehrle, Lauren; Kyvelidou, Anastasia, University of Nebraska at Omaha*
- 10 **The effect of physical activity on perceived competence: A meta-analysis**  
*Salazar, Pamela; Jimenez, Judith, University of Costa Rica; Morera, Maria, National University*
- 11 **Investigating Expert vs. Rater Consensus Agreement, Inter and Intra-Rater Reliability of Two Fundamental Movement Skills for the Locomotor Subscale of the FG-COMPASS**  
*Perez, Lino; Ovande, Jr., Ovande, California State University Northridge*
- 12 **Impact of a psychomotor program intervention on children presenting writing disabilities**  
*Melo, Filipe, University of Lisbon; Sieres, Rita, CERCISA*
- 13 **The moderating effects of physical activity and global self-worth on the relationship between Developmental Coordination Disorder and internalizing problems**  
*Li, Yao-Chuen; Graham, Jeffery D., McMaster University; Cairney, John, University of Toronto*
- 14 **The influence of manual dexterity ability in visual motor integration and handwriting skills of 5-year-olds**  
*Cacola, Priscila M.; Butler, Christi, University of Texas at Arlington*
- 15 **Acquisition of the Anti-Phase Pattern in Bimanual Coordination: Role of Frequency of Oscillation**  
*Pacheco, Matheus Maia, The University of Georgia; Brakke, Karen, Spelman College*
- 16 **Pupil dilation, motor imagery and cognitive load**  
*Cordova, Alberto; Camargo, Elena; Land, William; Yao, Wan Xiang, University of Texas - San Antonio*
- 17 **Investigating the construct of motor competence in middle childhood**  
*Bardid, Farid, University of Strathclyde; Utesch, Till, University of Muenster; Lenoir, Matthieu, Ghent University, Belgium*
- 18 **Can children do what they think they can? The influence of performance level on the accuracy of perceived motor competence in childhood**  
*Cordovil, Rita, Universidade de Lisboa; Almeida, Gabriela, Universidade de Evora; Luz, Carlos, Instituto Politécnico de Lisboa; Rodrigues, Luis Paolo, Instituto Politécnico de Viana do Castelo*

- 19 **The relationship between physical activity and motor development in infants with and without Down syndrome**

*Ulrich, Dale A.; Pitchford, Edward A.; Ketcheson, Leah R., University of Michigan*

- 20 **Enhanced Object Manipulative Skills Physical Education Programming for Third Grade Girls in a Canadian Elementary School**

*Sheehan, Dwayne, Mount Royal University; Sheehan, Sonia, Foundations for the Future Charter Academy; Johnson, Emily, Mount Royal University*

- 21 **Developing New Protocols To Test Fundamental Movement Skills - A Necessity?**

*Issartel, Johann; McGrane, Bronagh; Belton, Sarahjane, Dublin City University*

- 22 **The Perceived Motor Competence Questionnaire in Childhood (PMC-C)**

*Dreiskaemper, Dennis; Utesch, Till; Tietjens, Maike, University of Muenster*

- 23 **Auditory and visual cues in sequence learning: comparing typically developing children and adults**

*Duna, Kayla V.; Glazebrook, Cheryl M.; Passmore, Steven; Wittmeier, Kristy, University of Manitoba*

- 24 **Family Day Care Providers' Proxy Report of Pre-schoolers' Motor Skill Competence**

*Figueroa, Roger; Wiley, Angela, University of Illinois at Urbana-Champaign*

Topic **Motor Learning and Control**

Moderator Louisa Raisbeck, University of North Carolina-Greensboro, United States

- 31 **Offline process during initial acquisition of motor sequences is not an artifact of fatigue**

*Du, Yue; Clark, Jane E., University of Maryland, College Park*

- 32 **Ataxia-related challenges in control of compensatory stepping during balance perturbation in patients with cerebellar disease**

*Park, Jin-hoon; Lim, Changha, Korea University*

- 33 **Thinking outside the block: External focus shortens reaction times in collegiate sprinters.**

*Kovacs, Attila J.; Miles, Garrett F.; Ross, Kimberly; Reineke, Rebekka, University of Wisconsin - La Crosse; Baweja, Harsimran S., San Diego State University*

- 34 **Examining a motor learning paradigm: To teach or not to teach**

*Rhoads, Jence A.; Daou, Marcos; Dyke, Ford B.; Lohse, Keith R.; Miller, Matthew W., Auburn University*

- 35 **The observation of three different model types show the same levels of consolidation in the learning of a novel motor skill**

*Moore, Clara; Ste-Marie, Diane M., University of Ottawa*

- 36 **Is the ability to learn encoded in the resting brain?**

*Hooyman, Andrew; Kutch, Jason; Babikian, Sarine; Winstein, Carolee, University of Southern California*

- 37 **Error estimation enhances skill acquisition when learners do not control their feedback schedule**

*Barros, Joao A.; Nestor, Jacob; Mendoza, Robert; Torres, Lesley; Dillon, Natalie; Venegas, Mark, California State University Fullerton*

- 38 **Examining Student Engagement and Learning in a Mobile Technology Enhanced Motor Behavior Class**

*Petranek, Laura J., Boise State University*

- 39 **Increased autonomy facilitates learning in a self-control protocol**

*Deel, Nicole M.; Geddes, Helen M.; Aiken, Christopher A., Alma College*

- 40 **Preparation of timing structure involves two distinct sub-processes**

*Maslovat, Dana; Chua, Romeo, University of British Columbia; Klapp, Stuart T., California State University East Bay; Forgaard, Christopher J.; Franks, Ian M., University of British Columbia*

- 41 **Off-line consolidation in learning a novel bimanual coordination skill**

*Park, Inchon; McCulloch, Austin; Buchanan, John J., Texas A&M University*

- 42 **Tactic knowledge in Handball**

*Schack, Thomas, Bielefeld University; Lex, Heiko, Rostock University; Froebel, Tobias; Vogel, Ludwig, Bielefeld University*

- 43 **Effect of Foreperiod Regularity on Fractionated Reaction Time**

*Benedict, Ronald J.; Lai, Qin, Wayne State University*

- 44 **Allocentric perception of model image during right-and-left spatial discrimination tasks**

*Ishikura, Tadao, Doshisha University*

- 45 **Does the Part Sequence Cuing Effect Exist in Recalling a Serial Motor Skill?**

*Chen, David D.; Polic, Nicola; Lam, Kevin; Togia, Brelani, California State University Fullerton*



- 46 **Adaptive changes in running kinematics as a function of head stability demands and their effect on shock transmission**  
*Lim, Jongil; Busa, Michael A.; A. van Emmerik, Richard E.; Hamill, Joseph, University of Massachusetts at Amherst*
- 47 **Insufficient reporting of control therapies in stroke rehabilitation trials: A systematic-review and meta-analysis.**  
*Lohse, Keith; Pathania, Anupriya; Wegman, Rebecca, Auburn University; Boyd, Lara A., University of British Columbia; Lang, Catherine E., Washington University School of Medicine in St. Louis*
- 48 **Does the dimension (2D or 3D) of a visual presentation influence RT and MT in an imitation task?**  
*Buchanan, John; McCulloch, Austin; Muthukumaraswamy, Sivakumar; Banerjee, Amarnath, Texas A&M University; Robson, Nina, California State University Fullerton*
- 49 **Dyslexic children can modulate body sway in reading conditions**  
*Razuk, Milena; Barela, Jose Angelo, Cruzeiro do Sul*
- 50 **Neuromotor ability metrics exhibit similar occurrence of significant correlations within and between testing domains**  
*Wittstein, Matthew; Anzola-Riegel, Carolina; Waller, Rachel, Elon University*
- 51 **Clarinetist's choice: Should instrument selection be based on player size?**  
*Winges, Sara A.; Young, Kathryn E., Louisiana State University*
- 52 **The effects of self-control on the learning of a graphical aiming task**  
*Luzar, Ben W.; Cameron, Laura G.; Aiken, Christopher A., Alma College*
- 53 **Diving Deeper Into Essential Oils**  
*Avans, Diana E; Dacquay, Cedric; Carter, Keri, Vanguard University*
- 54 **Effects of task and contextual constraints on place kicking performance at the 2015 Rugby World Cup**  
*Pocock, Chris, St Mary's University, Twickenham, London; Bezodis, Neil E., Swansea University; Davids, Keith, Sheffield Hallam University; North, Jamie S., St. Mary's University, Twickenham, London*
- 55 **The effect of practice on muscle activity in recumbent stepping**  
*Siekirk, Nicholas; Galen, Sujay; Pardo, Victoria; Lai, Qin, Wayne State University*

56 **Physiological stress differentially impacts target detection of men and women**  
*Duarte, Antonio F.A., Brazilian Army Physical Training Center; Fawver, Bradley, University of Utah; Wright, Allison; Beatty, Garrett F.; Janelle, Christopher M., University of Florida*

57 **Infants' attraction for water: A dangerous play**  
*Burnay, Carolina, Edith Cowan University; Cordovil, Rita, University of Lisbon; Button, Chris, University of Otago; Croft, James, Edith Cowan University*

58 **Postural control adaptations in people who participate in boarding sports**  
*Sansom, Jennifer K.; Lomond, Karen V., Central Michigan University*

59 **The relationship between movement variability and movement proficiency in fundamental movement skills**  
*Ward, Brodie J.; Rosenberg, Michael; Thornton, Ashleigh L.; Lay, Brendan S., University of Western Australia*

60 **Exoskeleton augmentation does not compromise user safety during performance of common industrial tasks**  
*Hondzinski, Jan M.; Ikuma, Laura; Queiroz, Marcio de; Wang, Chao, Louisiana State University*

61 **Gaze direction and foot sensation influence foot placement during goal-directed stepping**  
*Celestine, Shyrece D.; Donze, Victoria G.; Bellingham, Nicholas J.; Buie, Keenan J.; Hondzinski, Jan M., Louisiana State University*

62 **Trajectory analysis of pointing movements: how many trials are needed for reliable data?**  
*Blinch, Jarrod, Texas Tech University; Chua, Romeo, University of British Columbia; Kim, Youngdeok, Texas Tech University*

Topic **Sport and Exercise Psychology**

Moderator Ben Jackson, University of Western Australia, Australia

71 **Within-person influence of self-efficacy on performance across trials based on task objective and task type**  
*Hepler, Teri J., University of Wisconsin - La Crosse; Hill, Christopher R., Michigan State University; Ritchie, Jason, Florida State University; Cole, Alex; Conard, Corissa; Starkey, Kately De; Eisberner, Megan; O'Connor, Emily; Stadler, Amanda; Willger, Megan, University of Wisconsin - La Crosse*

72 **Examining the Complex Relationship between Feedback, Self-Efficacy and Performance**  
*Ouellette, Gene; McPhee, Kathryn, Mount Allison University*

- 73 **The relationship between barrier self-efficacy and physical activity in adolescents: A meta-analytic review**  
*Hill, Christopher R.; Feltz, Deborah L., Michigan State University; Samendinger, Stephen, Drexel University*
- 74 **Hit me with your best shot: Trust in self and automation in golf**  
*Dithurbide, Lori; Neyedli, Heather, Dalhousie University*
- 75 **Investigating the association between burnout and quality of life: Does physical activity moderate the association?**  
*Phillips, Emily Wolfe; Gaudreau, Patrick; Brunet, Jennifer, University of Ottawa*
- 76 **Self-control strength and mindfulness in sport**  
*Stocker, Eva, Institute of Sport Science; Englert, Chris; Seiler, Roland, University of Bern*
- 77 **Positive Illusory Bias in the Physical Domain and Cognitive Functioning among Children with ADHD Symptoms**  
*Oluyedun, Olufemi A.; Smith, Alan L.; Pontifex, Matthew B.; McAlister, Anna; Hauck, Janet L., Michigan State University*
- 78 **Exercise Motivation among College Students using the Self-Determination Theory Approach**  
*Sng, Eveleen; Loprinzi, Paul, University of Mississippi*
- 79 **A Meta-Analytic Review of the Relationship between Social Constructs and Athlete Burnout**  
*Pacewicz, Christine E.; Mellano, Kathleen T.; Smith, Alan L., Michigan State University*
- 80 **The Predictive Power of Mindfulness, Stress Management, and Smart Phone Addiction for Mental Stress In College-Aged Students**  
*Chen, David D., California State University Fullerton; Nguyen, Donald, Columbia University; Fisher, Koren, California State University Fullerton*
- 81 **Changes in mental workload and motor performance during the learning of a novel cognitive-motor task over multiple practice sessions**  
*Jaquess, Kyle J.; Lo, Li-Chuan; Oh, Hyuk; Lu, Calvin; Ginsberg, Andrew, University of Maryland College Park; Tan, Ying Ying, Defense Science and Technology Agency; Hatfield, Bradley D.; Gentili, Rodolphe J., University of Maryland College Park*
- 82 **Replication Study of the Strength & Conditioning Sport Psychology Questionnaire with NCAA Strength & Conditioning Coaches**  
*Moore, E. Whitney G., Wayne State University; Quartirol, Alessandro, University of Wisconsin, Lacrosse; Zakrajsek, Rebecca A., University of Tennessee Knoxville*

- 83 **Investigating the Impact of Mindfulness as a Unique Form of Associative Attention on Affective Responses to Treadmill Walking**  
*Cox, Anne E.; Cates, Hailey L.; Roberts, Madeline A.; McMahon, Amanda, Washington State University*
- 84 **The influence of training on expertise: Do sport-related performance factors tell us something different?**  
*Dehghansai, Nima, York University; Hopwood, Melissa, Paralympic New Zealand; Baker, Joe, York University*
- 85 **Mental Health Predictors of Sport Enjoyment among Adolescent Female Athletes**  
*Ashdown-Franks, Garcia L.; Sabiston, Catherine M.; Pila, Eva, University of Toronto*
- 86 **The development of a tool to examine parents' goals for their children's participation in organized youth sport: A pilot study**  
*Grimm, Marshall X.; Dorsch, Travis E., Utah State University*
- 87 **An Intervention to Help PE Teachers Offer Intrinsic Teaching Goals in Autonomy-Supportive Ways: Benefits to Students**  
*Cheon, Sung Hyeon, Kangwon National University; Reeve, Johnmarshall, Korea University; Song, YongGwan; Kim, Bo Ram, Kangwon National University*
- 88 **Perceived Preference for and Toleration of Exercise with a Graded Exercise Test**  
*Wittstein, Matthew, Elon University; Barczak, Nikki, University of North Carolina at Chapel Hill; Moisand, Megan; Hadgis, Nicholas, Elon University*
- 89 **Elite athletes in interactive and technique-oriented sports differ regarding their implicit achievement motive**  
*Wegner, Mirko; Hofstetter, Denise; Endtner, Pia; Suter, Rebecca, University of Bern; Schueler, Julia, University of Konstanz*
- 90 **A Preliminary Exploration of Young Athletes' Use of Observation in Aesthetic Sports**  
*Richards, Devyn; Mady, Caleb; Law, Barbi, Nipissing University*
- 91 **Evidence for Differential Effects of Sports-Related Concussion on Subtypes of Cognitive Flexibility**  
*McGowan, Amanda L.; Bretzin, Abigail C.; Savage, Jennifer L.; LaFavor, Meghan E.; Petit, Kyle M., Michigan State University; Beidler, Erica, Duquesne University; Covassin, Tracey M.; Pontifex, Matthew B., Michigan State University*

- 92 **Influence of active transportation to school on daily physical activity: An investigation of children in Northeastern Ontario elementary schools**

*Scharoun, Sara M.; Bruner, Brenda G.; Confesor, Valaine E.; Hay, Dean C.; Karvinen, Kristina H., Nipissing University; Levesque, Lucie, Queen's University; Mantha, Shannon; Mayer, Alex, North Bay Parry Sound District Health Unit; Raymer, Graydon H.; Rickwood, Greg D., Nipissing University*

- 93 **"Walkabouts" integrated physical activities improve inattention, hyperactivity and engagement in the preK-2nd Grade classroom**

*Vazou, Spyridoula; Wille, Madeline; Long, Katharine, Iowa State University; Lakes, Kimberley, University of California Irvine; Whalen, Nicci, Simpson College*

- 94 **The moderating role of the coach-created task-involving motivational climate in the relationships between athletes' perfectionistic striving, perfectionistic concerns and positive reactions to imperfection**

*Appleton, Paul; Duda, Joan, University of Birmingham*

- 95 **The Effects of Acute Exercise Timing and Duration on Long-Term Memory**

*McHone, Ashley; Slutsky, Alexis B.; Kurtz, Kevin; Arunachalam, Sudharani; Labban, Jeffrey D.; Etnier, Jennifer L., University of North Carolina at Greensboro*

- 96 **The Effects of a Fitness Social Media Account on Exercise Motivation**

*Avans, Diana E.; Tabron, Hanna; Handel, Cassie, Vanguard University*

- 97 **The Great Recess Framework: Evidence for an observational tool to measure the quality of recess**

*Massey, William V., Concordia University Wisconsin; Stellino, Megan B., University of Northern Colorado; Mullen, Sean P., University of Illinois; Wilkison, Megan, Concordia University Wisconsin; Claassen, Jennette, Playworks*

- 98 **Group dynamics within cooperative youth environments: A scoping review**

*Petersen, Brennan; Watson, Kody; Eys, Mark, Wilfrid Laurier University; Evans, Blair, Pennsylvania State University*

- 99 **Exerciser Self-Schema Status Moderates Perceived Attractiveness of Exercisers**

*Kendzierski, Deborah A.; Colleluori, Kaitlyn; Dallavecchia, Alessandra, Villanova University*

- 100 **Relationships Among Team communication, Team Efficacy, Coach-Athlete Relationship, and Aggression in Collegiate Athletes**

*Kim, Young-Sook, Korea Institute of Sport Science; Cho, Seongkwan, Texas A&M International University; Choi, Hun-Hyuk, Dankook University; Yoon, Yong-Jin, Yonsei University*

## NASPSPA Posters

- 101 **"It's okay - Not everyone can be good at sports": Implicit ability beliefs and intended coaching interactions with low-skilled youth.**  
*Saville, Paul D., Azusa Pacific University; Fram, Eric A., McMaster University; Gonzalez, Alexis C.; Gonzalez, Ivy R., Azusa Pacific University; Bray, Steve R., McMaster University*
- 102 **Athlete Intimidation: A Reversal Theory Approach**  
*Culpepper, Dean, Texas A&M University-Commerce; Killion, Lorraine, Texas A&M University-Kingsville*
- 103 **Body Image in Division I Male Athletes: Why is Baseball High and Outside?**  
*Killion, Lorraine, Texas A&M University-Kingsville; Culpepper, Dean, Texas A&M University-Commerce*
- 104 **High School Sport Participation and Current College Student Psychosocial Health**  
*Barczak, Nikki; DeFreese, J.D., University of North Carolina at Chapel Hill*
- 105 **Student Athletes' Emotional Experiences Across a High School Basketball Season**  
*Martin, Eric M., Boise State University; Walker, Lauren F.; Gould, Daniel R., Michigan State University*
- 106 **Moderating effects of gender and age within the mechanisms of the self-determination theory process model - Examining exercise motivation in a digital context.**  
*Weman Josefsson, Karin A.; Johnson, Urban, Halmstad University; Lindwall, Magnus ., University of Gothenburg*
- 107 **Does Years of Professional Experience Determine Nutrition and Weight Cutting Behaviors in Professional Mixed Martial Artists?**  
*Henry, Makenna I.; Najera, Stephen; Ede, Allison; Allencar, Michelle; Madrigal, Leilani, California State University Long Beach*
- 108 **Is the development of trust in coach affected by the digital context of communication?**  
*Querfurth, Sydney; Schuecker, Linda; Strauss, Bernd, Westfaelische Wilhelms-University Muenster*
- 109 **Effect of a Five-Week Mindfulness Meditation Training Program on the Level of Anxiety, Cognitive Interference and General Mindfulness in a Division I Women's Volleyball Team**  
*Rodriguez, Chelsea; Chen, David D.; Becker, Andrea; Wiersma, Lenny; Hubbard, Brianna, California State University Fullerton*
- 110 **Do children like what they do? Association between preference and performance on a motor task.**  
*Wazir Norjali Wazir, Mohd Rozilee, Ghent University, Belgium; Pion, Johan, HAN University of Applied Sciences; Deconinck, Frederik; Mostaert, Mireille; De Meester, Ann; Lenoir, Matthieu, Ghent University, Belgium*

- 111 **The fatiguing effect of domain-specific physical exercise on perceptual-cognitive performance**  
*Klotzbier, Thomas; Schott, Nadja; University of Stuttgart*
- 112 **Challenge-oriented acts of followership as a double-edged sword in the leadership process**  
*Benson, Alex J., Nipissing University; Eys, Mark A., Wilfrid Laurier University; Hardy, James T., Bangor University*
- 113 **Sweat so you don't forget: How exercise intensity can moderate the benefit of exercise breaks on learning**  
*Ogrodnik, Michelle; Fenesi, Barbara; Lucibello, Kristen; Kim, Joseph A.; Heisz, Jennifer, McMaster University*
- 114 **Do relative age effects influence exercise participation among high school students**  
*Hendryx, Heidi; Strong, Kyrsten; Hancock, David J.; Indiana University Kokomo*
- 115 **A qualitative assessment of physical activity motivation, barriers, and participation among middle-age Filipino women living in the Greater Philadelphia Area**  
*Bhimla, Aisha; Sachs, Michael; Ma, Grace X.; Salvatore, Gabrielle M.; Trout, Julia, Temple University*
- 116 **The central representation of motor sequences**  
*Chitale, Aditi V.; Shea, John B., Indiana University Bloomington*

June 6, 2017

37 Poster Session #2

Topic **Motor Development**

Moderator Ting Liu, Texas State University, United States

- 1 **Cortical activity patterns in infants with Down Syndrome during performance of functional motor skills**  
*Harris, Micah; Baur, Katherine, University of Michigan; Nishiyori, Ryota, National Institutes of Health; Meehan, Sean K., University of Michigan*
- 2 **Examining the Relationship between Changes in Motor Competence and Physical Activity Levels after a 3-month Fundamental Motor Skill SKIP Program**  
*Tsuda, Emi; Goodway, Jacqueline D.; Centelles, Aina Cid I.; Woodson, Rebecca R., The Ohio State University; Valdez, Yadira H.; Famelia, Ruri, The Ohio State University*
- 3 **The Influence of Teacher's Knowledge of Instructional Strategies on Throwing Performance of Elementary-aged Children**  
*Chang, Seung Ho, San Jose State University; Goodway, Jacqueline; Ward, Phillip, The Ohio State University; Lee, Jihyun, San Francisco State University; Tsuda, Emi, The Ohio State University*
- 4 **The Role of Growth and Maturity Status on Head Impact Biomechanics among Youth Football Players**  
*Monsma, Eva V.; Yeargin, Susan, University of South Carolina; Kingsley, Payton, Ochner Sports Medicine; Mihalik, Jason, University of North Carolina; Mensch, Jim, University of South Carolina*
- 5 **Comparing Functional Movement Skills between Children with and without Autism Spectrum Disorder**  
*Wu, Sz-Yan; Powell, Christie; Jensen, Jody L., University of Texas at Austin*
- 6 **Association of Functional Movement with Perceived and Actual Motor Skill Competence in Young Adolescents**  
*Coker, Cheryl A.; Collins, Sean M., Plymouth State University*
- 7 **English to Portuguese reverse translation and initial evidence of rater-expert agreement for the FG-COMPASS**  
*Furtado, Ovande, California State University Northridge; Mazzardo, Oldemar, Universidade Estadual do Oeste do Parana; Watanabe, Priscila I.; De Campos, Wagner, Universidade Federal do Parana; Gallagher, Jere D., University of Pittsburgh*



8 **Physical activity levels and body mass index of children and adolescents with asthma diagnosis**

*Zacaron, Daniel, Centro Universitário da Serra Gaúcha - FSG; Dias, Caroline Pieta, Universidade Federal do Rio Grande do Sul - UFRGS; Roncada, Cristian, Centro Universitário da Serra Gaúcha - FSG*

9 **Keep driving! The preliminary results of modified ride-on car (ROC) training and motivation in toddlers with disabilities**

*Huang, Hsiang-han, Chang Gung University, Guishan, Taoyuan, Taiwan; Huang, Hsuan-Wen, Saint Mary's Hospital Luodong, Yilan, Taiwan; Chen, Yi-Mei, Taoyuan Chang Gung Memorial Hospital, Taoyuan, Taiwan; Chen, Chia-Ling, Linkou Chang Gung Memorial Hospital, Taoyuan, Taiwan*

10 **The Effect of Motor Interventions on Motor Competence: A Systematic Review with Meta-Analysis**

*Chaves, Karla; Jimenez, Judith; Salazar, Walter, University of Costa Rica*

11 **Characteristics of temperament and motor performance in Brazilian boys**

*Martins, Aline O.; Copetti, Fernando, Universidade Federal de Santa Maria; Valentini, Nadia C., Universidade Federal do Rio Grande do Sul*

12 **Predictive Validity of the Test of Gross Motor Development -3 for children with visual impairments**

*Haibach-Beach, Pamela S., SUNY Brockport; Brian, Ali; Taunton, Sally, University of South Carolina; Lieberman, Lauren, SUNY Brockport*

13 **The Relationship of Motor Proficiency, Nutrition Knowledge and BMI in Children with Autism Spectrum Disorder**

*Liu, Ting, Texas State University*

14 **Application of Exploratory Structural Equation Modeling to Motor Evaluation: Improving the Construct Validity of the Test of Gross Motor Development - 2nd Edition**

*Garn, Alex C.; Webster, E. Kipling, Louisiana State University*

15 **Clinician perception of actual and recommended dosage of tummy time: a comparison to the literature**

*Adkins, Chelsea M.; Hauck, Janet L., Michigan State University; Wentz, Erin, Upstate Medical University*

16 **Postural Control Differs between Normal Weight and Overweight Infants**

*Dinkel, Danae; Snyder, Kailey, University of Nebraska at Omaha; Molfese, Victoria, University of Nebraska at Lincoln; Kyvelidou, Anastasia, University of Nebraska at Omaha*

- 17 **Postural sway is repetitive in 6 month old infants at high-risk for ASD.**  
*Kyvelidou, Anastasia; Motz, Zachary; Wickstrom, Jordan, University of Nebraska at Omaha*

- 18 **Differences in Early Cognitive and Motor Neurodevelopment by Risk Factors and Underlying Outcomes of Intervention in Brazilian Infants**  
*Valentini, Nadia C.; Saccani, Raquel C.; Pereira, Keila Ruttnig, Universidade Federal do Rio Grande do sul*

Topic **Motor Learning and Control**

Moderator: Breanna Studenka, Utah State University, United States

- 31 **Balance practice with an internal focus increases resting-state connectivity in brain regions associated with balance.**  
*Raisbeck, Louisa D.; Diekfuss, Jed A.; Slutsky, Alexis B., University of North Carolina at Greensboro; Grooms, Dustin R., The Ohio State University; Schmitz, Randy J., University of North Carolina at Greensboro*

- 32 **The Influence of Integrated Feedback on Interpersonal and Intrapersonal Coordination**  
*Kennedy, Deanna; Shea, Charles H., Texas A & M University*

- 33 **A single session of external focus balance training changes resting-state brain connectivity.**  
*Raisbeck, Louisa D.; Diekfuss, Jed A.; Slutsky, Alexis B., University of North Carolina at Greensboro; Grooms, Dustin R., The Ohio State University; Schmitz, Randy J., University of North Carolina at Greensboro*

- 34 **Combined assessment of cognitive workload under various levels of challenge during dual-task walking**  
*Shaw, Emma, University of Maryland; Rietschel, Jeremy C., Veteran's Health Administration; Hendershot, Brad D.; Pruziner, Alison L., Walter Reed National Military Medical Center; Miller, Matthew W., Auburn University; Hatfield, Bradley D.; Gentili, Rodolphe J., University of Maryland*

- 35 **Transferability vs. specificity of decision-making skill in sport**  
*Roca, Andre, St Mary's University, Twickenham, London; Williams, A. Mark, University of Utah*

- 36 **Self-reported attentional focus strategies of collegiate baseball and softball players**  
*Lane Hartmann, April V.; Becker, Kevin A.; Mann, Mark D.; Nichols, David L., Texas Woman's University*

- 37 **Errorless learning and analogy instruction: Comparing implicit learning methods**  
*North, Jamie S.; Warren, Sam; Runswick, Oliver R., St Mary's University, Twickenham, London*

- 38 **Evaluating how a partner's practice schedule impacts one's own practice behaviours and motor learning outcomes**  
*Karlinsky, April; Hodges, Nicola J., University of British Columbia*
- 39 **Symmetry of intra-limb variability response differs between internal and external foci**  
*Fietzer, Abigail L., University of Southern California; Koyama, Yumiko, Kyoto University; Kulig, Kornelia, University of Southern California*
- 40 **The effects of high and low contextual interference on the learning of three variations of a golf chipping task**  
*Genter, Alec M.; Aiken, Christopher A., Alma College*
- 41 **Enhancing Dancing: Examining the Potency of Action Observation**  
*Kolar, Melissa B.; Newman-Norlund, Roger D., University of South Carolina*
- 42 **Comparison of Visual Fixation Patterns of Collegiate Female Volleyball Players in Serve Reception Passing**  
*Murray, Nicholas, East Carolina University; Simpson, Jaclyn E., George Mason University; Whittier, Tyler; Raedeke, Thomas D., East Carolina University*
- 43 **Utilizing a Proprioceptive Priming Technique to Enhance Start Mechanics in Sprinting**  
*Balendran, Rumesh, California State University, Long Beach; Gill, Gabriel, California State University Long Beach; Becker, James, Montana State University; Vargas, Tiffanye; Nakajima, Mimi; Wu, Will, California State University Long Beach*
- 44 **Effects of External and Internal Focus of Attention on Dart Throwing**  
*Sarhan, Aiman; Lai, Qin, Wayne State University*
- 45 **Focus of attention in trained distance runners**  
*Diekfuss, Jed A.; Luther, Morgan B.; Yamada, Masahiro; Raisbeck, Louisa D., University of North Carolina at Greensboro*
- 46 **The role of vision and attentional focus in performing a balancing task**  
*McNamara, Scott W.T.; Becker, Kevin A., Texas Woman's University*
- 47 **Development of a computational method to assess high-level motor planning during the performance of complex actions**  
*Hauge, Theresa C.; Katz, Garrett; Huang, Di-Wei; Reggia, James; Gentili, Rodolphe, University of Maryland College Park*

- 48 **The use of a dynamic orthosis in a child with unilateral spastic Cerebral Palsy: effects on gait kinematics**

*Martins, Elisabete; Cordovil, Rita; Oliveira, Raul, Universidade de Lisboa; Pinho, Joana, Escola Superior de Saúde do Alcoitão; Vaz, Joao, Universidade de Lisboa*

- 49 **Inter-team coordination tendencies of goal-scoring possessions in open play: an exploratory analysis of the 2014 FIFA World Cup winner team**

*Santos, Rodrigo, Universidade Federal de Vicosa; Duarte, Ricardo, University of Lisbon; Teoldo, Israel, Universidade Federal de Vicosa*

- 50 **Changes in mental workload and motor performance during practice of reaching movements performed under different levels of challenge**

*Shuggi, Isabelle M.; Oh, Hyuk, University of Maryland, College Park; Shewokis, Patricia A., Drexel University; Gentili, Rodolphe J., University of Maryland, College Park*

- 51 **Preseason postural control as a function of sport type, age and sex**

*Schleich, Kristen; Duffy, Donna M.; Ross, Scott E, University of North Carolina at Greensboro; Goble, Daniel, San Diego State University; Rhea, Chris K., University of North Carolina at Greensboro*

- 52 **The effect of open and closed kinetic chain exercise on hip strength and onset timing of hip musculature during activity in women**

*Wood, Kelsi J.; Berg, William P.; Salcedo, Nick; Walsh, Mark S.; Biller, Kelsey L., Miami University*

- 53 **Stabilization and structural variability in a throwing task**

*Profeta, Vitor; Carello, Claudia, University of Connecticut*

- 54 **Variation of motor practice involves greater cognitive effort than repetition: an EEG study**

*Lelis-Torres, Natalia; Ugrinowitsch, Herbert; Apolinario-Souza, Tercio; Benda, Rodolfo; Lage, Guilherme M., Universidade Federal de Minas Gerais*

- 55 **Recurrence Quantification Analysis of Gait Coordination in Children: With and Without Footwear.**

*Applequist, Bryon C.; Motz, Zachary; Kyvelidou, Anastasia, University of Nebraska at Omaha*

- 56 **Recalling a fearful experience impacts movement initiation based on the spatial congruency of imagined threat stimuli**

*Fawver, Bradley, University of Utah; Hass, Chris J.; Coombes, Stephen A.; Janelle, Christopher M., University of Florida*

- 57 **Dynamics of Interception in defender versus attacker**

*Tsutsui, Kazushi; Shinya, Masahiro; Kudo, Kazutoshi, The University of Tokyo*

58 *Poster Withdrawn*

59 **Investigating the mechanisms underlying the effects of an incidental choice on motor learning**

*Grand, Kirk F.; Daou, Marcos; Lohse, Keith R.; Miller, Matthew W., Auburn University*

60 **Athletics and expertise; how movement influences memory**

*Peach, Sidney B.; Winkers, Chelsea A., Edgewood College*

61 **Fixation in sequence learning occurs with previous practice involving random and complex but not simple sequence structures**

*Immink, Maarten A.; Chan, Russell W.; Greaves, Danielle, University of South Australia; Shcherbakova, Olga, Saint Petersburg State University*

62 **Effects of the combinations of constant-variable practices in the learning of the volleyball serve**

*Matos, Cintia O.; Benda, Rodolfo N.; Cruz, Madson P.; Costa, Cicero L.A.; Ferreira, Arthur M.; Lage, Guilherme M.; Ugrinowitsch, Herbert, Universidade Federal de Minas Gerais*

63 **Assessment of postural sway during different attention focus states in post-surgery ACL tears**

*Ferguson, Natalie L., Utah State University; Cone, Brian L.; Rhea, Christopher K., University of North Carolina Greensboro; Studenka, Breanna E., Utah State University*

Topic **Sport and Exercise Psychology**

Moderator Miranda Kaye, Pennsylvania State University, United States

71 **Understanding the impact of physical activity on quality of life in adults diagnosed with cancer: Results from a meta-synthesis of qualitative studies**

*Brunet, Jennifer; Wurz, Amanda, University of Ottawa; Bradshaw, Andrew, University of Leeds; Saunders, Stephanie, University of Ottawa; West, Malcolm, University Hospital Southampton; Burke, Shaunna, University of Leeds*

72 **Linking Positive Psychology and the Transtheoretical Model: How Character Strengths and Processes of Change Relate to Physical Activity**

*Stuntz, Cheryl P., St. Lawrence University*

73 **The Association of Scholarship Status with Sport- and School-Oriented Motivational Outcomes in Collegiate Student-Athletes**

*Barczak, Nikki, University of North Carolina at Chapel Hill; Barker, Analise, Springfield College; DeFreese, J.D., University of North Carolina at Chapel Hill; Dorsch, Travis E.; Lyons, Logan K., Utah State University*

74 **Relationships Between Health Action Process Approach Model Constructs and Physical Activity in People with Spinal Cord Injury**

*Ma, Jasmin K.; McCracken, Laura A.; West, Christopher R.; Martin Ginis, Kathleen A., University of British Columbia*

75 **Imagery Ability and Physical Activity and their Relation to Active Play Imagery**

*Guerrero, Michelle D.; Munroe-Chandler, Krista J., University of Windsor*

76 **Effects of soccer ball heading frequency and intensity on nasal inspiratory and expiratory function as measured by rhinological patency**

*Raudenbush, Bryan; Custer, Kristen; Robinson, Emily; Schlegel, Killeen; Moore, Sierra, Wheeling Jesuit University*

77 **Effects of Video Game Player Avatar Size on Body Image Satisfaction/Dissatisfaction and Subsequent Food/Nutritional Choices in a Cafeteria Setting**

*Raudenbush, Bryan; Dwyer, Patrick, Wheeling Jesuit University*

78 **Motivational Differences Between Indoor and Sand Volleyball**

*Rhoads, Michael C., Metropolitan State University of Denver; Williamson, Scott, University of Denver; Antillon, Christopher; Whalum, Gerard, Metropolitan State University of Denver*

79 **Predictors of Children's Physical Activity Attraction During Later Childhood: A Longitudinal Examination**

*Brustad, Robert J.; Bumgardner, Brenda K., University of Northern Colorado*

80 **The Influence of Task Complexity and Social Engagement During Physical Activity on Executive Functioning in Older Adults**

*Koon, Lyndsie M.; Brustad, Robert J.; Stellino, Megan L., University of Northern Colorado*

81 **The association of health risk behaviors, anxiety, and depression among middle and high school students in the South of Brazil**

*Mazzardo, Oldemar, Universidade Estadual do Oeste do Parana; Furtado, Jr., Ovande, California State University Northridge; Sampaio, Adelar A.; Chapla, Alan L.; Szczuk, Luis; Jacob, Bryan S.; Gomes, Sabrina R. W., Universidade Estadual do Oeste do Parana*

82 **Variety of exercise in relation to physical self-perceptions, autonomous motivation and sensation-seeking**

*Boyd, Michael; Long, Danae; Davis, Catherine; Duran, Linda, San Francisco State University*

83 **Prediction of performance level 8 years later in a selected group of young volleyball players**

*Lenoir, Matthieu E., Ghent University, Belgium; Mostaert, Mireille X.; Deconinck, Frederik X.; Norjali Wazir, Mohd X.; Robertson, Kamasha X.; Pion, Johan X., Ghent University, Belgium*

## NASPSPA Posters

- 84 **The Relationship among Coaching Efficacy, Leadership Styles and Team Outcomes in a Premier League Soccer Season in Botswana**

*Keatholetswe, Lesika, University of Botswana; Malete, Leapetswe, Michigan State University*

- 85 **Sitting time, motivation, and weight-impacted quality of life after bariatric surgery: A preliminary examination**

*Chemtob, Keryn; R. Reid, Ryan E.; Andersen, Ross E.; Duncan, Lindsay R.; Sweet, Shane N., McGill University*

- 86 **Parents' perceptions of parent involvement in young adults' intercollegiate athletic careers: Policy, education, and desired-student-athlete outcomes**

*Lyons, Logan K.; Dorsch, Travis E., Utah State University; Lowe, Katie, Clark University; Kaye, Miranda P., Pennsylvania State University; Arnett, Jeffrey J., Clark University*

- 87 **Understanding the impact of parents socioemotional and competitive goals on their verbal sideline behavior in organized youth sport**

*Campbell, Brandon C.; Grondel, Bryson T.; Grimm, Marshall X.; Dorsch, Travis E., Utah State University*

- 88 **The Pictorial Scale of Physical Self-Concept for Young Children (P-PSC-C): A Feasibility-Study**

*Tietjens, Maïke; Dreiskaemper, Dennis; Utesch, Till, University of Muenster; Schott, Nadja, University of Stuttgart; Barnett, Lisa; Hinkley, Trina, Deakin University*

- 89 **Legitimacy of anti-doping policies - athletes as researchers**

*Kolb, Meike, Westfaelische Wilhelms-University Muenster; Dreiskaemper, Dennis, Westfaelische Wilhelms Universitaet-Muenster; Petroczi, Andrea, Kingston University; Holzgreve, Pia, Westfaelische Wilhelms Universitaet-Muenster; Brueckner, Sebastian, Olympiastuetzpunkt Rheinland Pfalz / Saarland; Strauss, Bernd, Westfaelische Wilhelms Universitaet-Muenster*

- 90 **Testing the Expanded Sport Officials Decision-Making Model**

*Ritchie, Jason; Tenenbaum, Gershon, Florida State University*

- 91 **Interaction between BDNF polymorphism and physical activity on cognitive performance in the elderly**

*Audiffren, Michel F.; Canivet, Anne; Andre, Nathalie; Albinet, Cedric T., University of Poitiers*

- 92 **Social, Psychological, and Physical Predictors of Well-Being among Female Adolescents in Aesthetic Sports**

*Kipp, Lindsay E., Texas State University; Bolter, Nicole D., San Francisco State University; Phillips, Alison C., University of Iowa*

- 93 **Exercise Autonomy and Physical Activity Behaviors amongst College Students**  
*Ferkel, Rick C.; Rollenhagen, Ben R.; Fisher, Kevin M., Central Michigan University*
- 94 **Breathing patterns are associated with changes in emotional responses and heart rate while viewing neutral stimuli**  
*Buchanan, Taylor, University of Florida; Fawver, Bradley, University of Utah; Beatty, Garrett F.; Janelle, Christopher M., University of Florida*
- 95 **Characterizing treatment response to 8-weeks of aerobic exercise training in major depressive disorder**  
*Brush, Christopher J.; Ehmann, Peter J., Rutgers, The State University of New Jersey; Olson, Ryan L., University of North Texas; Bocchine, Anthony J.; Alderman, Brandon L., Rutgers, The State University of New Jersey*
- 96 **Does early specialization influence long-term involvement in sport and physical activity in former competitive figure skaters?**  
*Lemez, Srdjan, California State University Los Angeles; Wong, Harmonie, York University; Dogra, Shilpa, University of Ontario Institute of Technology; Baker, Joseph, York University*
- 97 **Predicting physical activity attitudes, perceived behavioral control, and intentions from aspects of the ParticipACTION brand**  
*Lithopoulos, Alexander, Queen's University; Berry, Tanya R., University of Alberta; Faulkner, Guy, University of British Columbia; LeBlanc, Allana, ParticipACTION; O'Reilly, Norman, The Ohio State University; Rhodes, Ryan E, University of Victoria; Spence, John C., University of Alberta; Tremblay, Mark S., University of Ottawa; Latimer-Cheung, Amy E., Queen's University*
- 98 **Body Satisfaction and Self-Efficacy of Active, Middle-Aged Women**  
*Avans, Diana E.; Kerr, Casey; Boots, Crystal, Vanguard University*
- 99 **The associations between heart rate variability and executive function in late middle-aged and older adults**  
*Chu, I-Hua; Yu, Tzu-Cheng; Chiang, Che-Hsien, Kaohsiung Medical University*
- 100 **An examination of athlete preferences of coach behaviors with junior high school athletes**  
*Sullivan, Philip; Ragogna, Matthew, Brock University*
- 101 **Acute effects of resistance exercise in men with and without symptoms of muscle dysmorphia**  
*SantaBarbara, Nicholas J.; Whitworth, James W.; Nosrat, Sanaz; LaBrec, Jordan E.; Louie, Mark E.; Ciccolo, Joseph T., Teachers College Columbia University*



- 102 **Examining the Influence of Program Quality on Athlete-Reported Outcomes**  
*Harlow, Meghan, York University; Bean, Corliss, University of Ottawa; Mosher, Alexandra; Fraser-Thomas, Jessica, York University*
- 103 **The influence of colors on speed perception**  
*Mentzel, Stijn; Schuecker, Linda, University of Muenster; Hagemann, Norbert, University of Kassel; Strauss, Bernd, University of Muenster*
- 104 **Active gaming and self-paced exercise: A self-determination perspective**  
*Wadsworth, Danielle D.; Daly, Colleen M.; Foote, Shelby J., Auburn University*
- 105 **Positive social bonds with staff build developmental assets and reduce risk behaviors among youth in a physical activity-based youth development program**  
*McDavid, Lindley, Purdue University; Snyder, Frank, Central Michigan University; McDonough, Meghan H., University of Calgary; Ruiz, Yumary, Purdue University*
- 106 **Identifying the differences of anthropometric, physical, motor coordination and cycling specific characteristics of young cyclists from five different cycling disciplines (BMX, road cycling, track cycling, MTB and cyclo-cross)**  
*Mostaert, Mireille, Ghent University, Belgium; Deconinck, Frederik; Wazir Norjali Wazir, Mohd Rozilee; Robertson, Kamasha, Ghent University, Belgium; Pion, Johan, HAN University of Applied Sciences; Lenoir, Matthieu, Ghent University, Belgium*
- 107 **The big five personality factors and occupancy of various informal roles by Canadian intercollegiate athletes**  
*Kim, Jeemin; Eys, Mark, Wilfrid Laurier University*
- 108 **Factors affecting physical activity in breast cancer survivors: the health care provider experience**  
*Fong, Angela J.; Sabiston, Catherine M., University of Toronto*
- 109 **Sweating the small stuff: How aerobic exercise training reduces state anxiety in university students**  
*Lucibello, Kristen; Paolucci, Emily; Heisz, Jennifer J., McMaster University*
- 110 **Parents' Perceptions about Preschoolers' Energetic Play Predict Intentions but not MVPA**  
*Harris, Sheereen; Proudfoot, Nicole A.; King-Dowling, Sara; Di Cristofaro, Natascja; Brown, Denver; Langvee, Jason; Bray, Steve; Timmons, Brian W., McMaster University*
- 111 **The Effects of Acute and Chronic Resistance Exercise on Sleep Outcomes: A Systematic Review of Randomized Controlled Trials**  
*Kovacevic, Ana, McMaster University; Mavros, Yorgi, The University of Sydney; Heisz, Jennifer J., McMaster University; Fiatarone Singh, Maria A., The University of Sydney*

NASPSPA Posters

- 112 **The relationship between religious commitment and burnout in NAIA athletes.**  
*Josephs, Molly V., Southern Illinois University Edwardsville; Stapleton, Jessie N., Missouri Baptist University*
- 113 **The duration of the effect of behavioral synchrony in different sized groups**  
*Sullivan, Philip; Lewis, Zachary, Brock University*
- 114 **Development of the Sport Mental Health Continuum - Short Form (Sport MHC-SF)**  
*Foster, Brian; Chow, Graig M, Florida State University*
- 115 **Acute Physical Activity Modulations of Attentional Processes and Error-Monitoring in High- and Low-Anxious Females**  
*Parks, Andrew C.; Delli Paoli, Anthony G.; Schroder, Hans S.; Moser, Jason S.; Pontifex, Matthew B., Michigan State University*
- 116 **Developing a Physical Literacy Tool for the Early Years: PPLAY**  
*Clark, Heather, McMaster University; Krellaars, Dean, University of Manitoba; Dudley, Dean, Macquarie University; Mitchell, Drew, Sport for Life; James, Maeghan; Podgorski, Margaret, McMaster University; Cairney, John, University of Toronto*
- 117 **Parents value competence more than warmth in competitive youth hockey coaches: Evidence based on the innuendo effect**  
*Sutcliffe, Jordan, Nipissing University; Benson, Alex; Bruner, Mark; Nipissing University*
- 118 **Taking a Walk Down Memory Lane: The Relation between Affective Memory and Affective Forecast**  
*Calder, Amanda; Cotter, James D.; Hargreaves, Elaine A., Otago University*

June 7, 2017

64 Poster Session #3

Topic **Motor Development**

Moderators: Eva D'Hondt, University of Brussels; Ali Brian, University of South Carolina, United States

- 1 **A Mastery Climate Cognitive-Motor Skills Intervention: Impact on academic and motor performance, perceptions of competence, and BMI of children living in social vulnerability**

*Nobre, Galuber C.; Valentini, Nadia C., Universidade Federal do Rio Grande do Sul; Rudisill, Mary E., Auburn University*

- 2 **Exploring Predictors of Children's Motor Competence within the Context of the Canadian Assessment of Physical Literacy (CAPL)**

*Law, Barbi; Confesor, Valaine; Richards, Devyn; Bruner, Brenda, Nipissing University*

- 3 **Effectiveness of motor skill interventions across different socio-economic environments**

*Taunton, Sally A.; Brian, Ali S., University of South Carolina; Howard-Shaughnessy, Candice H, Troy University*

- 4 **An analysis of prospective reaching in 9-months-old infants using eye-tracking**

*McMahon, Emalie G., University of Tennessee, Knoxville; Wiener, Rebecca F.; Dimercurio, Abigail, University of Tennessee Knoxville; Connell, John P., University of Tennessee, Knoxville; Corbetta, Daniela M., University of Tennessee Knoxville*

- 5 **Changes in motor performance of young children: A three-year longitudinal study**

*Luciana, Ferreira, UEM; Santos, Viviane A.P.; Vieira, Jose LL, Maringa State University; Cacola, Priscila M., University of Texas at Arlington*

- 6 **Healthy young children can intentionally couple postural sway with stimuli of differing complexity**

*Motz, Zachary, University of Nebraska at Omaha; Hatzitaki, Vassilia, Aristotle University of Thessaloniki; Mukherjee, Mukul, University of Nebraska at Omaha; Siu, Ka-Chun, University of Nebraska Medical Center; Kyvelidou, Anastasia, University of Nebraska at Omaha*

- 7 **Executive Function, Motor Skills, and School Readiness in Low SES Hispanic Pre-kindergarteners**

*Hamilton, Michelle L.; Liu, Ting; Matula, Kathleen; Plotts, Cindy, Texas State University*

- 8 **Age-related offline and online learning processes underlie age-independent fast motor sequence learning**

*Du, Yue; Clark, Jane E., University of Maryland, College Park*

9 **Relations between anthropometrics and step-time parameters in infants' first year of walking**

*Lee, Do Kyeong, California State University Fullerton; Cole, Whitney, Max Planck Institute for Human Development; Adolph, Karen, New York University*

10 **Movement Strategies used by Children and Adults to Retrieve an Object from the Ground**

*Anderson, David I.; Motiwala, Arwa; Hamel, Kate A., San Francisco State University*

11 **Validity and Reliability of the Test of Gross Motor Development -3 for children with visual impairments**

*Brian, Ali; Taunton, Sally A., University of South Carolina; Haibach-Beach, Pamela; Lieberman, Lauren J., State University of New York's College at Brockport*

12 **Relationship between Body Mass Index and Functional Movement, Perceived Physical Competence and Motor Skill Proficiency in Middle School Students**

*Coker, Cheryl A.; Collins, Sean M., Plymouth State University*

13 **Relationship between motor proficiency and executive functioning in children**

*Sartori, Rodrigo C., Universidade Federal do Rio Grande do Sul and Pontifícia Universidade Católica do Rio Grande do Sul; Valentini, Nadia C., Universidade Federal do Rio Grande do Sul; Fonseca, Rochele, Pontifícia Universidade Católica do Rio Grande do Sul*

14 **Effect of table tennis practice on timing control in 10-12 year old children**

*Zheng, Lixin, Shandong University of Technology*

15 **A comparative study of gross motor development of American and Chinese school preschoolers: A pilot study**

*Downing, Kaitlyn; Gregg, Daniel, University of Memphis; Wang, Kun, Shandong Sport University; Dowling, Collin; Taylor, Satomi; Li, Yuhua, University of Memphis*

16 **Postural control in the elderly of different age groups**

*Nogueira Lahr, Silvana L.; Martins, Cristiane A.; Benda, Rodolfo N., Federal University of Minas Gerais*

17 **Parent report of their child's fundamental movement skill competency. A paediatric occupational perspective**

*Maher, Stevie J.; Barnett, Lisa M., Deakin University*

18 **SEMG analysis during landing in children with autism spectrum disorder: A case study**

*Rosales, Marcelo R.; Romack, Jennifer L.; Angulo-Barroso, Rosa M., California State University Northridge*

19 **The influence of gender in motor skills of children aged 1 month to 3 years**

*Felzer-Kim, Isabella; Zott, Gabriella; Hauck, Janet L., Michigan State University*

20 **Adolescent girls can report on their object control skill not their locomotor skill**

*Rogers, Vaimanino; Barnett, Lisa M.; Lander, Natalie J., Deakin University*

21 **Spontaneous movements during caregiver contact as an early window into ASD**

*Patel, Priya P.; Padmanabhan, Malavika; Hajiaghajani, Faezeh; Biswas, Subir; Lee, Mei-Hua, Michigan State University*

22 **Influence of body composition on actual and perceived motor competence in children**

*Webster, Elizabeth K.; Huck, Lydia L.; Molina, Lila V.; Tso, Katie, Louisiana State University*

Topic **Motor Learning and Control**

Moderator **Rajiv Ranganathan, Michigan State University, United States**

31 **Cortical motor gamma oscillations reflect coordination task demands.**

*Ferrandino, Josie; Jensen, Jody, University of Texas at Austin; Fuchs, Armin; Kelso, Scott, Florida Atlantic University; Cheyne, Douglas, The University of Toronto; Ferrari, Paul, The University of Texas at Austin*

32 **Virtual reality obstacle crossing success rate is affected by walking speed and age**

*LoJacono, Chanel T.; Rhea, Christopher K, University of North Carolina at Greensboro*

33 **Seeing is believing? The efficacy of feedforward modeling using mirror reversal**

*Rymal, Amanda M., California State University San Bernardino; O, Jennt; Cesena, Michael Ryan, California State University East Bay; Harrison, Desiree, California State University San Bernardino*

34 **Volleyball Match Analysis from an Information Processing Perspective: The Importance of Set Time**

*Fairbrother, Jeffrey T.; Cornelius, Hanna R.; Couvillion, Kaylee F., University of Tennessee Knoxville*

35 **Effects of mental practice in motor performance and control during predictable perturbations in an aiming task**

*Gomes, Thabata V.; Benda, Rodolfo N; P Andrade, Andre G., Universidade Federal de Minas Gerais; Harrison, Henry, University of Connecticut; Portes, Leonardo L.; Ugrinowitsch, Herbert, Universidade Federal de Minas Gerais*

36 **Fear of falling for older and stroke-involved adults**

*Stout, Ruth D., Moses Cone Hospitals; Rhea, Christopher K., University of North Carolina at Greensboro*

- 37 **Rhythmic auditory stimulation to alter fractal gait characteristics in older adults**  
*Stout, Ruth D., Moses Cone Hospitals; Rhea, Christopher K., University of North Carolina at Greensboro*
- 38 **Concussion Prevention and Coaching Pedagogy: Coaches' Perspectives**  
*Petraneck, Laura J., Boise State University; Bolter, Nicole D., San Francisco State University; James, Julie, Boise State University*
- 39 **Enhancing the pushing performance among expert hockey players through an external focus of attention**  
*Lin, Ching-er; Lee, Hsing-Lin, National Taichung University of Education*
- 40 **Temporal comparative feedback facilitates motor learning in children**  
*Chiviacowsky, Suzete; Harter, Natalia M., Universidade Federal de Pelotas*
- 41 **Poster Withdrawn**
- 42 **Influence of Attentional Focus on Balance Performance**  
*Jusko, Elizabeth, Central Washington University; Kupper, Christian, Westfaelische Wilhelms Universitaet-Muenster; Zentgraf, Karen, Westphalian Wilhelms-University; Roemer, Karen, Central Washington University*
- 43 **The effects of self-controlled target selection on the learning of an object projection task**  
*von Lindern, Aaron D., University of Tennessee, Knoxville; Bass, Andrew D., University of Tennessee Knoxville; Raabe, Johannes, University of Tübingen; Fairbrother, Jeffrey T., University of Tennessee, Knoxville*
- 44 **Kinematic Dissimilarity Influences the Perceptual Discriminability of Linearly Morphed Deceptive and Non-Deceptive Team Handball Penalties**  
*Helm, Fabian, Justus-Liebig-University Giessen; Troje, Nikolaus F., Queen's University; Munzert, Joern, Justus-Liebig-University Giessen*
- 45 **Variability of Ball Positioning in Basketball Bounce Passes**  
*Meyer, Ben, Shippensburg University*
- 46 **Benefits of Distributed Practice over Massed Practice in Learning and Memory Consolidation**  
*Song, Yonggwan; Park, Jin-Hoon, Korea University; Cheon, Sung Hyeon, Kangwon National University; Reeve, Johnmarshall, Korea University*

47 **Assisted Cycle Therapy (ACT) Improved Leisure Physical Activity but Not Sleep in Older Adults with Down Syndrome**

*Arnold, Nathaniel E.; Ringenbach, Shannon D.; Parker, Luke; Holzapfel, Simon D.; Lopez, Corinna; Szeto, Monica, Arizona State University*

48 **The Effects of Distribution of Practice on the Learning of a Motor Skill**

*Ugrinowitsch, Alessandra, Centro Universitario Belo Horizonte*

49 **Technical Training based on Mental Representation**

*Vogel, Ludwig; Schack, Thomas, Bielefeld University*

50 **Targeted memory reactivation during a daytime nap to improve sensorimotor skill performance**

*Johnson, Brian P.; Westlake, Kelly P, University of Maryland School of Medicine*

51 **A Novel Approach to Enhancing Upper Extremity Coordination in Children with Autism Spectrum Disorder**

*Gamez, Alejandra S., The University of Texas at El Paso; Wang, Chaoyi, Shenzhen University; Manning, Rhonda; Boyle, Jason B., The University of Texas at El Paso*

52 **The acute effects of attentional focus during motor imagery in a simple motor task.**

*Yamada, Masahiro; Diefkuss, Jed A; Raisbeck, Louisa D., University of North Carolina at Greensboro*

53 **Examination of interpersonal distance in karate combat**

*Katsumata, Hiromu; Daitoku, Hiroya, Dito-Bunka University*

54 **Effects of simultaneous self-control of knowledge of results (KR) and practice schedule in learning a serial motor skill of Taekwondo**

*Januario, Marcelo S.; Ugrinowitsch, Herbert; Lage, Guilherme M.; Portes, Leonardo L.; Figueiredo, Lucas S.; Benda, Rodolfo N, Universidade Federal de Minas Gerais*

55 **Effects of mental fatigue on gait during downhill walking**

*Schott, Nadja; Klotzbier, Thomas, University of Stuttgart*

56 **Temporal correlations of support surface movement affect the control of center of pressure velocity**

*Rand, Troy; Mukherjee, Mukul, University of Nebraska at Omaha*

57 **Stimulus-response compatibility during sequence learning under high and low contextual interference**

*Greaves, Danielle; Immink, Maarten A.; Thewlis, Dominic, University of South Australia; Wright, David L., Texas A&M University*

58 **Women Balance Control and Gait adaptations related with heels height**  
*Melo, Filipe, Faculty of Human Kinetics; Crisostomo, Rute S., Instituto Politécnico de Castelo Branco - Escola Superior de Saúde*

59 **What are talent scouts 'identifying' when searching for talent?**  
*Mann, David L., Vrije Universiteit Amsterdam; Timmerman, Ewout, Victoria University; Veerman, Sophie J.; Schmidt, Anouk, Vrije Universiteit Amsterdam*

60 **Hedonic states in sequence learning: A comparison of pre-learning pleasure states induced by focused-attention meditation and sustained attentional task.**  
*Chan, Russell W.; Immink, Maarten A.; Lushington, Kurt, University of South Australia*

61 **Effects of single-task practice of dual-task performance limitations in sequence learning**  
*Panzer, Stephan; Lindemann, Hanna, Saarland University; Shea, Charles H., Texas A&M University*

Topic **Sport and Exercise Psychology**

Moderator: Jordan Blazo, Louisiana Tech University, United States

71 **Incorporation of a Sport Psychology Program at the Major League Baseball Urban Youth Academy Enhances Assertiveness Skills, Player Performance and Self-Esteem**  
*Conn, Brad E., El Camino College*

72 **Coach-player communications: An analysis of top-level coaching discourse at a short-term ice hockey camp**  
*Elmes, David M., National Institute of Fitness and Sports*

73 **Do Intrinsically Motivated Athletes get more out of Youth Sport?**  
*Graupensperger, Scott, Pennsylvania State University; Cermak, Josh; Turner, Adrian, Bowling Green State University*

74 **A Scoping Review of Engagement in Physical Activity among LGBTQ+ Adults**  
*Herrick, Shannon S. C.; Duncan, Lindsay R., McGill University*

75 **Effects of peppermint flavored mouthguards on augmenting rugby play performance**  
*Raudenbush, Bryan; Troconis Bello, Juan Pablo, Wheeling Jesuit University*

76 **A Pilot Study on Student-Athlete Perceptions of Coaching Behaviors as Fostering or Hindering Mental Toughness Development**  
*Burger, Joshua; Ponti, Daniel; Madrigal, Leilani, California State University Long Beach*



- 77 **Self-Compassion promotes Fitness-Related Pride in Adolescent Female Athletes**  
*Gilchrist, Jenna D.; Pila, Eva; Sabiston, Catherine M., University of Toronto*
- 78 **Examining the Impact of Acute Exercise on Prospective, Immediate and Delayed-Memory Performance**  
*Frith, Emily M.; Sng, Shu LE; Loprinzi, Paul D, University of Mississippi*
- 79 **Steps in the right direction: The relation between achievement goals and self-compassion in male varsity athletes.**  
*Mosewich, Amber D.; Pynn, Shannon R.; Neely, Kacey C.; Holt, Nick L., University of Alberta*
- 80 **Elicitation of Physical Activity Judgments in Inactive Women through Mental Contrasting Interventions**  
*Ruissen, GERALYN R.; Beauchamp, Mark R., University of British Columbia*
- 81 **Sibling influence on youth's sport participation across adolescence: Models or foils?**  
*Osai, Keith V.; Whiteman, Shawn D.; Blazo, Jordan A., Utah State University; Dorsch, Travis E., Louisiana Tech University*
- 82 **"I deserve a treat": The effects of exercise motivation on post-exercise dietary responses**  
*West, Jessica; Guelfi, Kym J.; Dimmock, James A.; Jackson, Ben, The University of Western Australia*
- 83 **Reported cognitive appraisal, mental effort, cortisol response and shooting performance**  
*Rossato, Claire J., University of Greenwich; Basevitch, Itay, Anglia Ruskin University*
- 84 **Psychosocial effects of the interactive motion-sensing exercises on real-life arm use after stroke**  
*Chen, Shuya, China Medical University; Lin, Ching-Min, Asia University; Hsu, Stephen; Ho, Cheng-Hui, China Medical University; Yeh, Shih-Ching, Fudan University; Chang, Wen-Dien, China Medical University*
- 85 **It's not you, it's me: A Social Relations Model perspective on person-related variance in performance for distinguishable athlete dyads.**  
*Habeeb, Christine; Eklund, Robert C., University of Stirling*
- 86 **Self-Determined Motivational Profiles Predict Physical Activity Participation: A Latent Profile Analysis**  
*Reifsteck, Erin J.; Labban, Jeffrey D., University of North Carolina at Greensboro*

- 87 **Predictors of friendship between exercisers and their personal trainers**  
*Ede, Alison, California State University Long Beach; Feltz, Deborah L, Michigan State University; Martinez, Lourdes S., San Diego State University; Neal, Jennifer W.; Smith, Alan L., Michigan State University*
- 88 **Examining the relationship among university students' physical self-perceptions, motor skill proficiency, and physical activity behavior within the framework of physical literacy**  
*Arnett, Jesse; McAuliffe, Jim; Law, Barbi, Nipissing University*
- 89 **The "chicken or the egg" dilemma in self-efficacy theory: Testing self-efficacy and outcome expectation relationship for action planning behavior.**  
*Michalovic, Emilie, McGill University; Latimer-Cheung, Amy E., Queen's University; Sweet, Shane N., McGill University*
- 90 **The Social Identity Questionnaire for Sport (SIQS): The Utility of a Bi-Factor Model**  
*Bruner, Mark W.; Benson, Alex, Nipissing University*
- 91 **Exercise Duration and Short-Term Memory**  
*Slutsky, Alexis B.; McHone, Ashley; Kurtz, Kevin; Arunachalam, Sudharani; Labban, Jeffrey D.; Etnier, Jennifer L., University of North Carolina at Greensboro*
- 92 **The effects of single bouts of exercise on cerebral blood flow in preadolescent children**  
*Gwizdala, Kathryn L., Michigan State University; Weng, Timothy B.; Voss, Michelle W., University of Iowa; Pontifex, Matthew B., Michigan State University*
- 93 **Controlling coach behaviours and their implications for young athletes' emotional welfare: A test of the Basic Psychological Needs Theory**  
*Balaguer, Isabel; Mars, Lidon; Balaguer, Isabel, University of Valencia; Duda, Joan L., University of Birmingham*
- 94 **A qualitative exploration of university student athletes' perspectives on recreational drug use versus performance-enhancing drug use**  
*Hallward, Laura; Duncan, Lindsay R., McGill University*
- 95 **Social support and self-efficacy as factors contributing to exercise enjoyment in a Mexican community**  
*De La Cruz, Manuel, Universidad Estatal de Sonora; Zamarripa, Jorge; Marentes-Castillo, Maria; Delgado, Maritza, Universidad Autonoma de Nuevo Leon; Alvarez, Octavio; Castillo, Isabel, Universitat de Valencia*

- 96 **Self-determined motivation and stages of change in a Mexican community**  
*Marentes-Castillo, Maria; Zamarripa, Jorge, Universidad Autonoma de Nuevo Leon; De La Cruz, Manuel F., Universidad Estatal de Sonora; Medina-Villanueva, Samantha, Universidad Autonoma de Nuevo Leon; Alvarez, Octavio; Castillo, Isabel, Universitat de Valencia*
- 97 **Toward a validated test of defensive tactical knowledge in soccer: From principles to practice**  
*Horn, Robert R.; Scott, Jordan R.; Leather, Robert C.; Marchetto, Jonathan D., Montclair State University*
- 98 **Examining the influence of different levels of pressure on the performance of a volleyball serving task**  
*Marini, Matthew; Sullivan, Philip, Brock University*
- 99 **Age and task-specific moderators of the aerobic fitness and executive function relationship**  
*Ehmann, Peter J.; Brush, Christopher J., Rutgers, The State University of New Jersey; Olson, Ryan L., University of North Texas; Bocchine, Anthony J.; Bhatt, Shivang N.; Banu, Andrea H.; Alderman, Brandon L., Rutgers, The State University of New Jersey*
- 100 **Manipulating the psychological climate of group exercise classes: The effects on social physique anxiety and self-presentation**  
*Hamamoto, Sarah K.; Wilson, Kathleen S., California State University Fullerton*
- 101 **The Theory of Planned Behaviour, Menstruation, and Physical Activity: Using a diary approach to predict Intention & Physical Activity across the Menstrual Cycle**  
*Croteau, Camille M., Western University; Wilson, Kathleen S., California State University Fullerton*
- 102 **Intra-team communication and task cohesion: Examining the moderating effects of psychological climate**  
*McLaren, Colin; Spink, Kevin S., University of Saskatchewan*
- 103 **Awareness of Error Among Skilled and Less Skilled Shooters: Think Aloud Protocol**  
*Monfared, Shamsi Sanati; Tenenbaum, Gershon; Folstein, Jonathan; Ericsson, Anders K., Florida State University*
- 104 **The Moderating Effect of Self-Compassion on Performance-Coping and Performance-Motivation Relationships**  
*Barczak, Nikki, University of North Carolina at Chapel Hill; Eklund, Robert, University of Stirling*
- 105 **Female Paralympic athlete perceptions of effective coaching practices**  
*Alexander, Danielle M.; Bloom, Gordon A., McGill University; Taylor, Shaunna L., The University of British Columbia*

- 106 **Goal Attainment Effects on Cognitions, Emotions, and Subsequent Performance in a Golf Putting Task**  
*Lebeau, Jean-Charles; Gatten, Heather; Perry, Inbal; Wang, Ye; Sung, Sibak; Tenenbaum, Gershon, Florida State University*
- 107 **The Effects of Progressive Muscle Relaxation on the Subjective Well-Being of Collegiate Athletes**  
*Vento, Kaila A.; Vargas, Tiffany M.; Madrigal, Leilani; Schick, Evan, California State University Long Beach*
- 108 *Poster moved to #118 on Tuesday, June 6 Poster Session #2*
- 109 **Talent characteristics discriminating table tennis, tennis, and badminton by means of a coaches' survey.**  
*Robertson, Kamasha, Ghent University, Belgium; Pion, Johan, HAN University of Applied Sciences; Mostaert, Mireille; Wazir Norjali Wazir, Mohd Rozilee, Ghent University, Belgium; Kramer, Tamara, HAN University of Applied Sciences; Faber, Irene, Saxion University of Applied Sciences; Lenoir, Matthieu, Ghent University, Belgium*
- 110 **Do judo athletes with different motives respond differently to autonomy-supportive and controlling coaching?**  
*Haerens, Leen, Ghent University, Belgium; Delrue, Jochen; Vansteenkiste, Maarten, Ghent University, Belgium; Vande Broek, Gert, KU Leuven; Van den Broeck, Karolien; Soenens, Bart, Ghent University, Belgium*
- 111 **Analyzing jumping performance in Volleyball athletes with different levels of perceptual-cognitive load**  
*Fleddermann, Marie-Therese; Zentgraf, Karen, University of Muenster*
- 112 **"The physical, the mental, the spiritual, and emotional": Indigenous women athletes' meanings and experiences of flourishing in sport**  
*Ferguson, Leah J.; Epp, Gillian B., University of Saskatchewan; Wuttunee, Kellie; Dunn, Matthew, Community Sport Advisor; McHugh, Tara-Leigh F., University of Alberta; Humbert, Louise M., University of Saskatchewan; Lessard, Sean D., University of Alberta*
- 113 **Effects of Motivational Climate on Tennis Serve Performance**  
*Favoretto, Loriane, Auburn University; Martin, Ellen, Columbus State University; Hollett, Nikki; Rudisill, Mary; Pangelinan, Melissa, Auburn University*

NASPSPA Posters

114 **Development and initial psychometric evaluation of the Sport Performance Perceptions Scale**

*Killham, Margo E., University of Saskatchewan; Mosewich, Amber D., University of Alberta; Duckham, Rachel L., Deakin University; Kowalski, Kent C.; Ferguson, Leah J., University of Saskatchewan*

115 **The Effect of Metrical Structure of Auditory Stimuli on Temporal Organization in Rhythmic Sensorimotor Synchronization Tasks**

*Tanosaki, Haruka; Okano, Masahiro; Shinya, Masahiro; Kudo, Kazutoshi, The University of Tokyo*

116 **Athlete Burnout, Romantic Relationship Quality and Lifespan Psychological Health Outcomes in Former Elite American Football Athletes**

*Freese, J.D.; Barczak, Nikki; Romaine, Andrew; Thomas, Leah; Baucom, Donald; Kerr, Zachary; Guskiewicz, Kevin, University of North Carolina at Chapel Hill*

117 **The role of relatedness in linking parenting to academic adjustment and individuation: An examination of student-athlete/parent dyads during emerging adulthood**

*Kaye, Miranda P., Pennsylvania State University; Dorsch, Travis E., Utah State University; Lowe, Katie, Clark University*