Curriculum Vitae

Francesco Sgrò
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CURRENT ACADEMIC POSITION

- Associate Professor of Sport Pedagogy - Faculty of Human and Society Sciences – University of Enna "Kore"
- Coordinator of the Bachelor Degree in "Physical activities and sport sciences" - Faculty of Human and Society Sciences – University of Enna "Kore"
- Scientific Head of the Human Movement and Performance Analysis Laboratory – University of Enna "Kore"

EDUCATION AND ACADEMIC LEVEL

- Doctor of Philosophy in "Methodologies in Education Research" – Profile: Sport, Teaching, Disability and Integration - University of Salerno
- Confirmation by national advisory commission in order to became Full Professor

TEACHING EXPERIENCE

As a teacher, I started to teach at University in 2009 with a course titled "Fundamental biomechanics of human movement", that I'm still teaching. In addition, from 2012 I started to teach "Methods and technology for assessing human movement", with special regards for the technologies which can be used in school and youth sports context. Specifically, I focus my lesson on the use of video analysis, stereophotogrammetry, and wearable inertial-magnetic sensors for assessing several aspects of human movement, such as fundamental movement skills (FMS), motor competence, and simple sport tasks. I have also addressed in my lessons (and in my research) the use of low-cost devices for assessing movement skills and performance, such as Microsoft Kinect and Nintendo Wii Balance Board. From 2017, I'm teaching "Methods and didactics of individual and team sports" and I normally spent a lot of my lessons on addressing the models which explain lifelong physical activity and sport participation (Stodden, et al., 2008; Cote, et al., 2009; Hulteen, et al., 2019) and teaching approaches (ie., TGM, Play Sense) for supporting the conjointly development of fundamental movement skills, motor competence, and sport concepts in youth. I have also thought for few years a discipline titled "Research methods and assessment in physical activity and sport", where I focused my lessons on methods for assessing physical fitness (ie., EUROFIT), FMS (ie., TGMD) and sport skills (GPAI, TSAP). Recently, I have been enrolled as a teacher in a Master (ie., III level degree) to teach "Lifestyles and Wellbeing", which is focused on methods for supporting physical exercise and leisure sport and for assessing physical activity and physical fitness life span.

RESEARCH TOPICS

Assessing human movement and sport performance can be considered as the fixed topic of my research from my Ph.D. candidate time, as synthetized in the following lines:

1) assessing the development of fundamental movement skills in school context by means of field-based and technology-oriented approaches. These studies were developed to acquire data related to health- and skill-related fitness components as proxy measure of motor development of children and adolescence

Sgrò, F., Quinto, A., Platania, F., & Lipoma, M. (2019). Assessing the impact of a physical education project based on games approach on actual motor competence primary school children. *Journal of Physical Education and Sport. 19*(Supplement issue 3), 1954-1959.

Sgrò, F., Quinto, A., Messana, L., Pignato, S., & Lipoma, M. (2017). Assessment of gross motor developmental level in Italian primary school children. *Journal of Physical Education and Sport. 17*(3), 1954-1959.

2) assessing motor competence development of childhood in specific task (ie., standing vertical jump and standing long jump) by means of digital devices: Microsoft Kinect and APDM Inertial Magnetic Units

Sgrò, F., Mango, P., Pignato, S., Schembri, R., Licari, D., Lipoma, M. (2017). Assessing Standing Long Jump Developmental Levels Using an Inertial Measurement Unit. *Perceptual and Motor Skills*. *Perceptual and Motor Skills*, *124*(1), 21-38.

Sgrò, F., Quinto, A., Pignato, S., & Lipoma, M. (2016). Comparison of product- and process-oriented model accuracy for assessing countermovement vertical jump motor proficiency in pre-adolescents. *Journal of Physical Education and Sport. 16*(3), 921-926.

Sgrò, F., Nicolosi, S., Schembri, R., Pavone, M. & Lipoma, M. (2015). Assessing vertical jump developmental levels in childhood using a low-cost motion capture approach. *Perceptual & Motor Skills*, 120(2), 642-658.

Sgrò, F., Licari, D., Coppola, R. & Lipoma, M. (2015) Assessment of balance abilities in elderly people by means of clinical test and low-cost force platform. *Kinesiology*, *47*(1), 33-43.

3) assessing the validity of low-cost device (ie. Wii Balance board) to measure transitional motor competence (ie. Sit-To-Stand) and stability patterns in comparison with gold-standard device (ie. AMTI force plate)

Sgrò, F., Coppola, R., Pignato, S., & Lipoma, M. (2019). Comparison of a Nintendo Wii Balance Board with a Laboratory-Grade Force Plate on Measurement of Transitional Movements. *Kinesiology*, *51*(1), 35-51.

Sgrò, F., Licari, D., Coppola, R. & Lipoma, M. (2015) Assessment of balance abilities in elderly people by means of clinical test and low-cost force platform. *Kinesiology*, *47*(1), 33-43

CONGRESS EXPERIENCE (IN MOTOR COMPETENCE AND DEVELOPMENT FIELDS)

-) IMDR-C Congress 2019: I served as a co-chair in the session n# 6

-) IMDR-C Congress 2020: Presentation of the following study:

Sgrò, F., Quinto, A., Trombatore, A., & Lipoma, M. "*Effects of students'sex on in-game volleyball technical improvements throughout a tactical games model unit"*.

-) IMDR-C Congress 2021: Corresponding author of the following studies:

Quinto, A., Sgrò, F., Tortella, P., & Lipoma, M. *Understanding the factors which contribute to the fundamental movement skills development: a case study with Italian primary school students.*

Barca, M., Iona, T., Schembri, R., Sgrò, F. *Assessing the effect of a tactical-based intervention through discriminant analysis results*

PARTICIPATION IN INTERNATIONAL PROJECTS (AS COMPONENT OF RESEARCH UNITS)

-) National Research Project (PRIN): Title: *Fall risk estimation and prevention in the elderly using a quantitative multifactorial approach*

-) ERASMUS+ Project – Title: *"D.E.V.H.E.P.A. – Development and implementation practices of strategies for HEALTH-ENHANCING PHYSICAL ACTIVITIES (HEPA) in local communities across Europe"*

INVOLVEMENT IN SCIENTIFIC SOCIETIES AND GROUP

-) Member of the International Advisory Board of the *Teaching Games for Understanding* AIESEP SIG

-) Member of the Executive Board of *Italian Society of Physical and Sport Education (SIEMeS).*

-) Principal Investigator of the SIEMeS Research Group on "Technologies for assessing motor competence"