

## Teaching portfolio

### 1. Teaching CV: A list of any lecturing and supervision tasks, including specification of academic fields, scope, level (bachelor, master, continuing education, PhD) as well as any external examiner tasks.

I have been involved in teaching since 2003, when I was a bachelor candidate in Physical education at São Paulo State University (UNESP) in Brazil. Since then, I have been also involved in supervising student projects and from 2008 I was responsible for running entire courses in different disciplines for the Bachelor degree in Physical Education in a private university in Brazil. While pursuing my Ph.D. and currently I am involved in supervision of projects in the Sports Science and Sports Technology education. The list below specifies the activities I performed throughout the years.

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#### COURSES TAUGHT

PhD in Biomedical Sciences and Engineering (Aalborg University – Denmark)

- Matlab for Non-Engineers: Basic Data Processing and Optimization (2018/2019)
- Neuromechanics of Human Movement (2018/2020)
- Non-Invasive Techniques for the Assessment of Neural Plasticity (2016/2018)
- Fundamentals of electroencephalography (EEG) (2018)
- Advances in Neural control of movements (2020)

MSc in Sports Technology (Aalborg University)

- Applied Technology and Measurement Techniques in Sports (2016/2017/2018)
- Movement analysis (2019/2020)

MSc in Sports Sciences (Aalborg University)

- Neuromuscular adaptations to Physical Activities and Training (2017/2018/2019/2020)

MSc in Robotics (Aalborg University)

- Human Bionics - Neural control of motion (2020)

Bachelor in Sports Sciences (Aalborg University)

- Biomechanics Theory and Practice – Ball Games (2016/2017/2018/2019)

Bachelor in Sports Sciences (Centro Universitario Unieuro - Brazil)

- Biomechanics (2008/2009)
- Biostatistics (2009)

Bachelor in Sports Sciences (Centro Universitario Anhanguera - Brazil)

- Human Anatomy (2008/2009)
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#### STUDENT SUPERVISIONS

Bachelor Degree theses in Sports Science, Aalborg University, Aalborg, Denmark

Changes in trunk extensors EMG activity in different types of deadlifts (2020\*) Bachelor candidates: Andreas David Laursen, Nicki Lentz-Nielsen, Signar Hilmarsson

Which factors determine speed cubing performance? An EEG study (2019). Bachelor candidates: Saba Molhemi, Mathias Bundgaard Jensen, Casper Ravn Frederiksen

Resveratrol & delayed-onset muscle soreness (DOMS) (2018). Bachelor candidates : Simon Spangsgaard, Anders Juul Christensen

Decision-making and cognitive motor interference during walking in young and elderly (DOMS) (2017). Bachelor candidates: Carina Hedberg, Sif Halkjær, Mikkel Staall Reiche

Bachelor Degree theses in Physical Education, UNIEURO university center, Brasilia, Brazil

Effects of muscle fatigue on the kinematics of long distance runners (2009)

Bachelor candidate: Daniel Pereira da Silva

Bachelor Degree theses in Physical Education. São Paulo State University, Rio Claro, Brazil

Rate of force development during isometric and isokinetic contractions (2007, co-supervisor). Bachelor Candidate: Rogerio Bulhões Corvino

Master Degree theses in Sports Science, Aalborg University, Aalborg, Denmark  
Effects of exercise-induced muscle damage on motor unit recruitment in dynamic actions (2020\*) MSc candidates: Simon Spangsgaard, Anders Juul Christensen

Changes in motor unit behavior during dynamic actions after ischemic pre-conditioning (2020\*) MSc candidate: Trine Øhlenschläger, Mathias Mondrup Pedersen

Master Degree theses in Sports Technology, Aalborg University, Aalborg, Denmark  
A user-friendly software for the evaluation of prosthetics effectiveness in restoring natural locomotion in amputees (2020\*). MSc candidate: Michael Harbo Olensen, Lasse Schroder Jakobsen

The effects of triceps surae tendon length altering shoe insoles during running (2019). MSc candidate: Ineta Nausedaite

Assessing mental workload using seismocardiography (2019). MSc candidate: Jacob Guy Diemar, Mikkel Jul Hansen

The relationship between sound and vGRF during fatigued and non fatigued running (2019). MSc candidate: Malthe Bilgram Jensen, August Philip Brandi, Peter Bliksted Dam

Developing an algorithm for analyzing passes in a football match (2019). MSc candidates: Jacob Gandrup and Morten Blegvad Jørgensen

Bachelor Degree theses in Physical Education. São Paulo State University, Rio Claro, Brazil  
Rate of force development during isometric and isokinetic contractions (2012, co-supervisor). MSc Candidate: Rogerio Bulhões Corvino

Master Degree theses in Sports Sciences, University of Brescia, Brescia, Italy  
Spinal and supraspinal contributions to muscle fatigue during isometric and dynamic contractions using concurrent analysis of EEG and high-density EMG (2020\* co-supervisor). MSc candidate: Andrea Rizzardi

PhD Degree theses in Biomedical Sciences and Engineering, Aalborg University, Aalborg, Denmark  
Assessing running mechanics using sound waves: implications for injury prevention and sports performance (2019-2021 Supervisor). Ph.D. candidate: Cristina Ioana-Pircoveanu

PhD Degree theses in Technology and Health, University of Brescia, Brescia, Italy  
Spinal and supraspinal contributions to muscle fatigue in dynamic contractions (2019-2021 co-supervisor). Ph.D. candidate: Alessandro Cudicio.

## **2. Study administration: A list of any study administration tasks, e.g. study board membership, head of studies or semester or course coordinator, accreditation, etc.**

2005-2006. Member of the study board of the bachelor in Physical Education (UNESP, Brazil).

In this activity, I was one of the four students responsible for discussing the learning goals for the education of the Bachelor in Physical Education course with the lecturers and researchers involved in the educational process.

## **3. University pedagogy qualifications: A list of any completed courses in university pedagogy, PBL courses, workshops, academic development projects, collegial guidance and supervision, etc.**

- Aalborg University Pedagogical Education for Assistant Professors (2015 – 2016)

- Certification program in English for AAU university instructors (AAU, Denmark, 2016).

- Teaching day pedagogic training (AAU, Denmark, 2012, 2016, 2018, 2019)

## **4. Other qualifications: Conference attendance, editorials, presentations, etc. relating to education, 'University Teaching Day', etc.**

2012. Teaching day pedagogic training (AAU, Denmark)

In this activity I have gained new insights of how to teach and approaches concerning Problem-Based Learning.

## **5. Teaching activity development and teaching materials: A list of any contributions to the development of new modules, teaching materials, study programmes, e-learning,**

**collaboration with external business partners, etc.**

2008-2009 – Elaboration of study program for disciplines Biomechanics, Biostatistics and Human Anatomy. Bachelor degree in Physical Education (UNIEURO, Brazil).

In this activity, I created the study program for these different disciplines. My main focus was on providing the best balance between explanatory lectures and hands-on experiences.

**6. Teaching awards you may have received or been nominated for.**

Type your answer here...

**7. Personal reflections and initiatives: Here you may state any personal deliberations as regards teaching and supervision, any wishes and plans for further pedagogic development, plans for following up on feedback/evaluations from students, etc.**

Type your answer here...

**8. Any other information or comments.**

Type your answer here...