ELENA ILARIA STUCOVITZ
Master of Biomedical Engineering

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WORK EXPERIENCES

June 2017 - Present **Clinical Trial Monitor Assistant - Internship**
"IRCCS Ospedale San Raffaele", Milan, Italy
Main activities:
- assistant during clinical trial monitoring visits;
- reports writing after each visit;
- writing protocol consultant;

Sept 2014 - Present **Researcher and Technical Director of Motion Analysis Laboratory**
"IRCCS Istituto Ortopedico Galeazzi", Milan, Italy
Main Activities:
- Handling of multiple research projects, varying from clinical examinations to data collection, from patients recruitment to data analysis and interpretation;
- Application of Gait Analysis protocols for the functional clinical assessment of patients having different pathologies;
- Implementation and application of new experimental protocols;
- Study and analysis of orthopaedic biomechanics mainly related to hip and knee prosthesis;
- Editing of technical documents and presentations;
- Teacher for several seminars at the podiatry school of "Università degli Studi di Milano", Milan, Italy.

Ongoing research projects:
- RCT: motor rehabilitation assisted by Virtual Reality Rehabilitation Systems;
- OAK: a new device for fall risk evaluation in the elderly;
- Gait parameters after simultaneous bilateral hip arthroplasty compared to unilateral hip arthroplasty;
- Gait parameters after simultaneous bilateral total knee arthroplasty;
- EOS vs. Formetric: X-ray versus radiant-free topography for spine parameters definition in children and adolescents;
- RCT: post-operative recovery comparison between direct superior approach for hip replacement and traditional approach;

Sept 2009 - Nov 2009 **Cardiologic devices internship**
Centro Cardiologico Monzino IRCCS (Cardiologic Centre)
Main activities:
- Surgery room presence during biological aortic valves substitution and implantation, aorta substitution with vascular prostheses, angiography and endovascular stents application, and pacemaker's implantation;
- Looking at a Biomedical Engineer assistant in surgery rooms during operations and testing new devices.

Sept 2008 - Sept 2014 Occasional working as a hostess for predisposition, preparation and organization of events at *Fonema GEM Milano s.r.l.*

EDUCATION

March 2017 - May 2018 **Master in Preclinical and Clinical Research and Development of Drugs**
PharmaTrain centre of excellence
"Università Milano Bicocca", Milan, Italy

March 2017 **State qualification for Engineering Profession**
score: 84/100

April 2016 - June 2016 **RCT: Randomized Controlled Trials course**
"Università degli Studi di Milano", Milan, Italy

April 2016 - April 2016 **SIAMOC CHALLENGE 2016 course**
XI National course of Clinical Motion Analysis
"Fondazione Santa Lucia", Rome, Italy

Sept 2015 - Dec 2015 **GCP: Good Clinical Practice course**
*"*IRCCS Istituto Ortopedico Galeazzi", Milan, Italy

Nov 2014 - Nov 2014 **Motion Biomechanics course**
Edi-ermes, Milan, Italy

Feb 2011 - April 2014 **Master's degree in Biomedical engineering**
Politecnico di Milano, Milan, Italy
Orientation: Bio-electronic Technologies
Final score: 104/110

March 2013-March 2014 *Thesis*: *"*Force feedback of a bipolar pliers for haptic feedback in robotic surgery"
Contents: Selection and location of force sensors on a neuro-surgical bipolar pliers; force sensors electronic conditioning circuits and implementation; calibration of the sensorized surgical tool; tests using biological tissue samples (heart, lung, liver and brain); data analyses.

March 2012- July 2012 Team work at Laboratorio di Tecnologie Elettroniche e Biosensori, TBM Lab, Politecnico di Milano, Italy
Project: "Magnetoreography (MRG): non-invasive measurement of blood flow"

Aug 2006 - Feb 2011 **Bachelor's degree in Biomedical engineering**
Politecnico di Milano, Milan, Italy
Final score: 94 /110

Feb 2010 - Feb 2011 *Thesis:* "Protocol of assembly and sterility tests on a dynamic bioreactor for heart valves"
Contents: adaptation of a bioreactor for heart valves to better manage the set-up of the bioreactor components assembly tests and verification of the maintenance of sterile condition inside the bioreactor.

Sept 2001 - July 2006 **High School Diploma in Humanistic Studies**

Liceo Classico Cesare Beccaria, Milan, Italy
Final score: 71/100

Aug 2004 - July 2005 **HIGH SCHOOL EXCHANGE STUDENT PROGRAM**
AFS INTERCULTURA
4th year of High school with a Certificate of Attendance
Shawnee Mission East High School
Prairie Village, Kansas City, Kansas, USA

OTHER EXPERIENCES

Summers 2004-2008 Sailing course in Sardinia, at *Centro Velico Caprera* (CVC)

Summer 2009 Enrolled in a Volunteer Program for Children, with *FEVI* association Lumbisi, Quito, Ecuador

Sept 2008 - Sept 2012 Member of the Italian Synchronized Ice-Skating team "*Re-evolution*", *Agorà Skating Team, Milano, Italy*

OTHER KNOWLEDGES

- Biomedical imaging systems
- Posture and movement analysis
- Sensors in biomedical sector
- Robotic surgery

SKILLS AND ACTIVITIES

Hobbies: Snow Skiing, swimming, ice skating, classical and modern dancing, Piano playing, Painting, jewellery creations, traveling.

Personal Skills: I consider myself a curious person, capable of learning quickly and with enthusiasm; I love traveling and getting in touch with new people and cultures

Computer Skills: Microsoft office: mainly Word, PowerPoint, Excel
Programming Languages: BTS SMART-Analyser, BTS SMART-Clinic, BTS EMG-Analyser Matlab, Arduino

Languages: Italian: Mother tongue;
English: fluent (TOEFL 2009: 97/120)

Driving licence: Category B

PUBBLICATIONS

Book chapter: Romagnoli S., Marullo M., **Stucovitz E**., Verde F., Corbella M., *Bi-unicompartmental Knee Prosthesis,* chapter 37 in: Minimally Invasive Surgery in Orthopedics - G.R. Scuderi, A.J. Tria (eds.)

Articles: *"Single leg squat performance in physically and non-physically active individuals: across-sectional study",* Gianola S., Castellini G.,

Stucovitz E., Nardo A., Banfi G., BMC Musculoskeletal Disorders (2017) 18:299

"Validation of the AnyBody full body musculoskeletal model in computing lumbar spine loads at L4L5 level", Bassani T., **Stucovit E.**, Qian Z., Briguglio M., Galbusera F., Journal of Biomechanics 58 (2017) 89–96

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