Short CV- Septembre 2019

**Ayman Assi**

Lebanese, Born 1981

Ayman is a biomedical engineer and holds a PhD in Biomechanics from Arts et Métiers ParisTech (Paris, 2008) where he is still affiliated as an invited researcher. He is an Associate Professor at the Faculty of Medicine of the University of Saint-Joseph (USJ) in Beirut where he also serves as director of the Laboratory of Biomechanics and Medical Imaging (since 2011).

He has formed, along with his physician colleagues, a team of orthopedic surgeons, engineers, physical therapists and medical students working at the research lab.

His main work is focused on musculoskeletal modeling using 3D subject-specific data from gait analysis as well as skeletal and muscular reconstructions from biplanar x-rays and MRI respectively. These biomechanical models are used in the setting of children with cerebral palsy in order to better understand the pathology and to offer the optimal treatment for these children. He also works on adolescent idiopathic scoliosis by investigating from both a basic science and clinical point of view, the complexity of the 3D deformity of the spine in these patients, its evolution, and the effect of surgical and orthopedic treatments. More recently, he started also working on evaluating gait and motion in adults with spinal deformities who are known to have a deteriorated quality of life and reduced mobility. Ayman collaborates strongly with the teams of Institut de Biomécanique Humaine Georges Charpak at Arts Métiers ParisTech in Paris and the spine division at the Hospital for Special Surgery in New York.

He is actively involved in teaching and academia at the Faculty of Medicine at USJ, member of the programs committee, and holds a diploma in educational methods in medical sciences.

Ayman has more than 30 publications (journal articles and book chapters) and 70 podium and poster presentations at international conferences such as ESMAC, EUROSPINE, EPOS, ESB, SRS and SOFCOT. He is a member at the European Society of Biomechanics, an active member at ESMAC and an ambassador at EUROSPINE.

Ayman is also a civil society activist and researcher. He fights for human rights in general, but also women rights, access to global health and especially sexual and reproductive health and rights. He is the president and co-founder of Marsa sexual health center, an NGO based in Beirut, who has been awarded the Red Ribbon Award by UNAIDS in 2014. Ayman is a member of the International Aids Society and the international committee at Solidarité Sida (Paris) as a reviewer for funding proposals.