

My name is Vincenza Sciortino, I am a Biomedical Engineering graduated with the highest honours in Biomedical Engineering, curriculum Biomechanical and medical devices, from University of Palermo.

My research PhD project is on the Spinal column and its biomechanics. The spine is an articulated system composed of vertebrae, intervertebral disks, and accessory structures. The spine biomechanical response is very complicated. So, my principal aim is to fully understand the working mechanism of the spine, focusing on the muscular trunk that generates the follower force to its stabilization, the intervertebral disk, and its viscoelastic response and finally, the pathological situations of the whole spine, such as herniated discs or scoliosis. Experimental laboratory tests and mechanical numerical simulations will be necessary to achieve my research objectives.