Serena Pizzocaro

Curriculum Vitae

Personal Information

Full Name	Serena, Marialuisa, Matilde Pizzocaro
Nationality	Italian
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Current Position

Oct 2022   **PhD Student in Bioengineering, Bioinformatics and Health Technologies,** *University of Pavia,* 65, C.so Strada Nuova, 27100, Pavia, Italy

Education

Jun 2022   **Master Degree in Bioengineering,** *University of Pavia,* 65, C.so Strada Nuova, 27100, Pavia, Italy, **Grade**: 110/110

     Experimental Thesis: *An approach to Muscular Fatigue Assessment during Exoskeleton Assisted Gait*

     Advanced Exams: Computational Learning and Decision Support in Biomedicine, Advanced Biomedical Machine Learning, Artificial Intelligence in Medicine

Sept 2019   **Bachelor Degree in Biongineering,** *University of Pavia,* 65, C.so Strada Nuova, 27100, Pavia, Italy, **Grade**: 104/110

     Experimental Thesis: *Automatic Identification of Sinuses of Valsalva in support of Aortic Valve Modeling*

Experiences

Jun 2021 - Jan 2022   **European Union Mobility Program - Erasmus Traineeship,** *LUNEX University - International University of Health, Exercise & Sports SA,* 4671, Differdange, Luxembourg

SAMURAI Project: Improving exoSkeleton-Assisted Motor training: muscular fatigUe assessment as Risk factor for spAsticIty in Spinal Cord Injuries (*H2020-779963 EUROBENCH, STP-2 Proposal*), aimed to study the effect of using a powered lower-limb Exoskeleton (ExoAtlet II, ExoAtlet Global SA, Luxembourg). More precisely, it pointed to assess the mechanics and muscular activities of lower-limbs and lower-limbs muscle fatigue in healthy subjects during the use of the ExoAtlet II in prolonged training sessions on certain benchmarking motor functions

2018 - 2022   **Accademic Tutoring,** *University of Pavia,* 65, C.so Strada Nuova, 27100, Pavia, Italy

Support solving proposed problems during practical exercises and exams, of the course "Fundamentals of Computer Science"

Skills & Background Knowledge

Programming languages	MATLAB, C, C++, Python, Java, SQL, Assembly, R
Markup languages	HTML, CSS, XML, JSP
Data management	Microsoft Access, MySQL, PostgreSQL
Tools	Orange, Protégé, KNIME, git, Yawl, 3D Slicer, ImageJ, Abaqus

Languages

Italian	**Mothertongue**	
English	**Advanced**	*Effectively use of the language for social, academic or professional situations. Understanding of a wide range of texts or conversations and ability in create well-structured and detailed texts on complex topics.*
French	**Basic**	*Understanding and use of very basic expressions to satisfy concrete needs and basic interaction skills.*

Interests & Activities

- Horse riding
- Volunteer Activities as Educator
- Photography
- Traveling
- Social Activities
- Reading