PERSONAL INFORMATION

Name: **CHIARA LIVOLSI**

WORKING EXPERIENCE

Oct 2018- Ongoing	**PhD candidate at the Wearable Robotics Lab of the Scuola Superiore Sant'Anna**
<u>Main activities</u>	Development of new control perspectives and clinical validation of an hip exoskeleton
May 2018- Sep 2018	**Bionic engineer - Research & Development, Private Company**, via Puglie,9 Pontedera (PI)
<u>Main activities</u>	Experimental activities, performances analysis, benchmarking and clinical validation of a portable hip exoskeleton.

EDUCATION AND TRAINING

Sep 2015-May 2018	**Master of science in Bionics Engineering - University of Pisa and Scuola Superiore Sant'Anna.** _**110/110 cum laude**_
June 2017 - April 2018	**Internship in private company** • Functional and technical performances analysis of an active pelvis orthosis at MARE lab, SSSA/Fondazione Don Gnocchi, Firenze; • Clinical validation of the orthosis with post-strokes subjects, chronic and subacute, at Villa Beretta, Costa Masnaga Italy.
Thesis title:	Towards wearable robotic products: analysis of the state of the market and development of a novel gait segmentation method for a portable hip exoskeleton.
Sep 2014 - Sep 2015	**1st-year of master science in Biomedical Engineering - University of Pisa**
Sep 2011 – Dec 2014	**Bachelor's degree in biomedical engineering - University of Pisa** _**110/110 cum laude**_
Award	**Graduation prize** for graduate students with honors. University of Pisa 2014
Thesis title	Neural interfaces for control of an upper limb prostheses: State-of-the-art.

Sep 2006 – Jul 2011	**Scientific High School Diploma – Liceo Scientifico "Luigi Failla Tedaldi"**
	100/100 cum laude
Award	**Award of excellence** (Memorial scholarship "Mimì Cancila"), a prize given to the most excellent student of the school in mathematics and in physics.

PERSONAL DESCRIPTION

Good theoretical background, fast learner and able to work hard to respect projects' deadlines.

Other softwares used:	**Mathcad, OpenSim, Weka, Dev-C++, ANSYS, COMSOL Multiphisics, ROS and Gazebo, Arduino, Eclipse C++, MPLAB, IAR, LaTeX.**
Mother Languages	Italian
Foreign Languages	English – B2* (reading, writing, listening and speaking)
	(*) Common European Framework of Reference for Languages.
English courses abroad:	
26 Aug- 02 Sep 2016	**Intensive Course B2-2, EF International Language Centers, Dublin**
04-15-Sep 2006	**English Course, Anglo-Continental, Bournemouth, England.**

SOCIAL SKILLS AND COMPETENCES

Good inclination for solving problems and working in team

BOOK CHAPTER

S. Crea, **C. Livolsi**, E. Rouse, D. Ristić-Durrant, J. Veneman, C. Bidard, T. Lenzi, T. Fridriksson, F. Thorsteinsson, M. R. Gudmundsson, N. Vitiello "Exoskeletons on the market and novel research trends". (Accepted book chapter - Springer)

PAPERS

Martini, C.B. Sanz-Morère, **C. Livolsi**, A. Pergolini, G. Arnetoli, S. Doronzio, A. Giffone, R. Conti, F. Giovacchini, Þ. Friðriksson, K. Lechler, S. Crea and N. Vitiello "Lower-limb amputees can reduce the energy cost of walking when assisted by an Active Pelvis Orthosis", in IEEE *BioRob*, 2020.

C. Livolsi, R. Conti, F. Giovacchini, S. Crea and N. Vitiello "A novel wavelet-based gait segmentation method for a portable hip exoskeleton", in IEEE *Transaction on Robotics*, 2021.

PATENTS

United States provisional application number: US63/075470 filed on September 8th, 2020. "Wavelet-based gait segmentation method"

United States provisional application number: US63/192796 filed on May 25, 2021. "System and method for correcting gait impairments"