

Europass Curriculum Vitae

Laura Galassi

Desired employment / Occupational field

Bionics Engineer

Work experience

Dates	From November 2022 to February 2023
Occupation or position held	Intern Student
Main activities and responsibilities	Master Thesis Project: Design of a soft actuation system based on mechanical instability for an artificial heart ventricle
Name and address of employer	Soft Robotic Matter Laboratory - AMOLF, Science Park 104, 1098 XG Amsterdam, The Netherlands
Type of business or sector	Research
Dates	From December 2021 to May 2022
Occupation or position held	Lab Training
Main activities and responsibilities	Design and characterization of a novel soft pneumatic artificial muscle that integrates an implantable bellows
Name and address of employer	Soft Mechatronics for Biorobotics Laboratory – Scuola Superiore Sant'Anna, Pisa
Type of business or sector	Research
Dates	From August 2021 to September 2021
Occupation or position held	Intern in a Traineeship
Main activities and responsibilities	Biomedical Engineering Research: develop and train a machine learning algorithm, based on deep neural network, for electrocardiogram delineation
Name and address of employer	Medical university of Vienna, Spitalgasse 23, Wien, Austria
Type of business or sector	Research
Dates	Since 2016 to 2021
Occupation or position held	Private lessons and tutoring
Main activities and responsibilities	High School level lesson of physics, mathematics, geometry and science
Name and address of employer	Private citizen
Type of business or sector	Education
Dates	Summer 2015 and 2020
Occupation or position held	Baby-sitting
Main activities and responsibilities	Taking care of children from 3 to 9 years old
Name and address of employer	Private citizen
Type of business or sector	Education

Education and training

Dates	From October 2020 to April 2023
Title of qualification	Master's Degree in Bionics Engineering
Principal subjects/occupational skills covered	Most advanced robotics and bioengineering technologies with life sciences, such as medicine and neuroscience, materials science, etc., with the ultimate goal of inventing and deploying a new generation of biomimetic machines, human-centred healthcare and assistive technologies. The biorobotics curriculum is focused on the development of humanoid and animaloid robot models, wearable robots, bionic implantable organs, artificial upper and lower limbs, robots and platforms for diagnosis, surgery and rehabilitation, computational biomechanics, micro/nano-robots and biomaterials. The curriculum's subjects are reported below.

Principles of bionics engineering, statistical signal processing, neuromorphic engineering, biomechanics of human motion, bioinspired computational methods (neural and fuzzy computation, biological data mining), applied brain science (behavioural and cognitive neuroscience, computational neuroscience), materials and instrumentation for bionics engineering (instrumentation and measurement for bionic systems, soft and smart materials), human and animal models in biorobotics, robotics for assisted living (robot companions for assisted living, cloud robotics), wearable robotics (exoskeletons, prostheses), robotics for surgery and targeted therapy (robotics for minimally invasive therapy micro/nano robotics and biomaterials).

Name and type of organisation providing education and training Scuola Superiore Sant'Anna and Università di Pisa

Level in national or international classification Master degree with 110/110 cum laude

Dates From October 2017 to July 2020

Title of qualification awarded Bachelor's Degree in Biomedical Engineering

Principal subjects/occupational skills covered Typical engineering requirements (as Mathematical Analysis, Physics, Electronic, Electrotechnics, Mechanics) and skills applied to the biomedical field

Name and type of organisation providing education and training Università Politecnica delle Marche

Level in national or international classification Bachelor with 110/110 cum laude

Dates From September 2012 to June 2017

Title of qualification awarded High School Diploma

Principal subjects/occupational skills covered Mathematics, Physics, Italian, Latin, English, History, Philosophy, Science

Name and type of organisation providing education and training Liceo scientifico Leonardo da Vinci, Civitanova Marche

Level in national or international classification "Esame di stato", final mark 100/100

Dates From September 2009 to June 2012

Title of qualification awarded Secondary School Diploma

Principal subjects/occupational skills covered Italian, Mathematics, English, French, Science, Art, Music, Technical Education

Name and type of organisation providing education and training Istituto Comprensivo Raffaello Sanzio, Porto Potenza Picena

Level in national or international classification Final mark 10/10 cum laude

Personal skills and competences

Mother tongue(s) Italian

Other language(s)

Self-assessment
European level (*)

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	

Language	5.5	English	6	English	6	English	6	English	5.5	English
	A2	French	A2	French	A2	French	A2	French	A2	French
Language	(*) Common European Framework of Reference for Languages									
	IELTS, Academic, British Council, Cambridge Assessment English, Level B2, 12 September 2020									
	Cambridge English Entry Level Certificate in ESOL International (Entry 3), Council of Europe Level B1, March 2016									
	Ardmore Language Schools Diploma CEF level B2, attending a 30 hour English Language Course at an Ardmore Language School in Kingswood School, Bath from 23 July to 6 August 2014									
	Cambridge ESOL Entry Level Certificate in ESOL International (Entry 2), Council of Europe Level A2, May 2012									
	Diplôme d'études en langue française DELF A2, May 2012									
competences	Group working and sharing views. Critical thinking for the accomplishment common goals. Volunteer educator in Azione Cattolica in S.Anna Parish of Porto Potenza Picena since 2014, looking after children from 10 to 14 years old and to organizing activities in collaboration with other educators.									
competences	Organizing appointments and scheduling meetings, creating and keeping deadlines, setting and meeting goals, managing team and project, problem solving skills.									
ter skills and competences	ECDL Base and ECDL Full Standard Certificate in May 2015. Proficient user of computer software (specifically Microsoft Office). Proficient user of Matlab; C, C++, Python programming language knowledge; YARP, ROS, Weka, LabView, Ansys, SOLIDWORKS user.									
competences	Acting skills in the amateur theatre group “Oratorio 3P, Claudio Giorgetti” in Porto Potenza Picena since 2013. First prize Contest “Arnaldo Giuliani” for the best journalist article, “CARO TEATRO”, in 2015. Part of the fifth short fiction contest “Riflessi di Scrittura” with honourable mention in 2015. Able violin player, studied for five years, attending the musical class of the middle school.									
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information										
Publications	Haberbusch, M., Bernardo, L. A., Galassi, L. , Oddo, C. M., & Moscato, F. (2022). Electrocardiogram Delineation Using Deep Neural Networks. In <i>dHealth 2022</i> (pp. 117-118). IOS Press.									