EUGENIA DE REMIGIS

MSc in Bioengineering

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EDUCATION

PhD Student in BIOROBOTICS

Sant'Anna School of Advanced Studies, Pisa | October 2022 - ongoing

- PhD Student at the **Microscale Robotics Laboratory** of Sant'Anna School of Advanced Studies.
- ERC project **CELLOIDS** - Cell-inspired particle-based intelligent microrobots.

MSc in BIOENGINEERING

University of Genoa, Genoa | 2019 - 2021

- Curriculum in **Neuroengineering and Bio-ICT**.
- Final grade: **110/110 *cum laude***.
- Thesis work in **Computational Neuroscience**: "*Modeling and simulating cortical networks under stroke*." Development of a large-scale computational neural network for the simulation of a stroke and evaluation of its effects on the functionality of the network.

BSc in BIOMEDICAL ENGINEERING

Università Politecnica delle Marche, Ancona | 2016 - 2019

- Final grade: **110/110 *cum laude***.
- Thesis work in **Bioengineering**: "*Application of neural networks for evaluation of K Channel block in the cardiac cell during drug administration*". Adaptation of a pre-designed Artificial Neural Network for the evaluation of the reliability of chosen indicators for the prediction of the arrythmogenic risk of therapeutic drugs. - Part of a research project published in 2021: see Publications.
- Participation in **Formula SAE** with *Polimarche Racing Team*.

Specialization course in Global Marketing, Communication and Made in Italy

Centro Studi Comunicare l'Impresa and Fondazione Italia USA, Rome | 2016 - 2018

- Online course by *Centro Studi Comunicare l'Impresa*.
- Final **Project Work**: Elaboration of a Marketing Plan for an all-news channel on the platform SKY TG24.
- Certified as **Accredited Professional to *Fondazione Italia USA*** (Italy-USA Foundation, Rome).
- Certified as **Brand Ambassador for *Centro Studi Comunicare l'Impresa* and *HBR Academy Italia***.

BA in FOREIGN LANGUAGES AND LITERATURE
G. D'Annunzio University, Chieti-Pescara | 2012 - 2015

- Final grade: **110/110 cum laude**.
- Thesis work in **English Literature**: "Wesoo, Hamlet! or the Resurrection of Hamlet *and Femi Osofisan's intercultural itinerary between tradition and innovation*".
- Languages studied: **English and German**.
- 10-month **Erasmus+** experience at **University of Bayreuth**, Germany.

PRACTICAL EXPERIENCE

Erasmus + Traineeship
Ghent University, Ghent, Belgium | April - September 2022

- 6-months traineeship at the **Nano-Biotechnology Lab of Ghent University** with the research team of Prof. Andre Skirtach.
- Characterisation of different kinds of **regulated cell death** through **Raman confocal microscopy** and data analysis via **machine learning**.
- Practical training in techniques for **cell culture**, induction of cell death in controlled conditions and Raman confocal microscopy.

Science Communicator
Festival della Scienza, Genoa | October 2021

- Science communicator for the workshop **"Mappe Motorie – Mettere in movimento arti naturali e artificiali"**.
- Presentation of the fundamental principles of human movement.
- Presentation and practical demonstration of the working principles of the prosthetic robotic hand Hannes developed by IIT (*Istituto Italiano di Tecnologia*).

Formula SAE
Università Politecnica delle Marche, Ancona | 2016 - 2017

- Participation in the **Marketing Division** of *Polimarche Racing Team* of Università Politecnica delle Marche.
- Relations and correspondence with Italian and international partners.
- Presentation of the Team and project to external partners and as spokeswoman during Formula SAE competitions.

PERSONAL SKILLS

- Solid problem solving skills and a proactive and constructive approach to team work developed through experience in Formula SAE;
- Fast learner, painstaking and reliable in study and work;
- Solid communication skills in academic and multicultural environments, due to previous studies and experiences;
- Creative, passionate and motivated.

PROFESSIONAL SKILLS

- Experience with laboratory protocols for **cell culture**, cell death induction and **Raman confocal microscopy**.
- Confidence in the use of **MATLAB** through academic projects and Thesis work;
- Good programming skills in **R** through Erasmus+ Traineeship;
- Good programming skills in **C** and **C++** through academic projects;
- Experience with algorithms and tools for **supervised and unsupervised learning** (K-means, Gaussian mixtures, Artificial Neural Networks, Principal Component Analysis, Support Vector Machines);
- Basic experience in **Arduino** programming;
- Solid digital skills gained both through studies and personal hobbies;
- Solid knowledge of **Microsoft Office** software.

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
	Certified by University of Bayreuth, Germany; C1 in all categories certified by Trinity College London and LCCI ESOL				
German	C1	C1	C1	C1	C1
	Certified by University of Bayreuth, Germany				

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

PUBLICATIONS

Morettini, M., de Remigis, E., Sbrollini, A., Marcantoni, I., & Burattini, L. (2021). Identification of hERG blockade by machine learning. Journal of Electrocardiology, 69, 79-80.
https://doi.org/10.1016/j.jelectrocard.2021.11.003