Diego Bianchi

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Work experience

Research Fellow
The BioRobotics Institute – Brain-Inspired Robotics Laboratory
Scuola Superiore Sant'Anna

📅 November 2021 – Ongoing   📍 Pisa, Italy

🔗 https://www.santannapisa.it/en/institute/biorobotics/brair-lab
Currently involved in the EU-funded project Proboscis(Grant agreement no. 863212) whose goal is to develop a new generation of universal robotic manipulators, having no distinction between a soft arm and a gripper. My goal is to develop machine learning-based algorithms and strategies for controlling bio-inspired soft robotics manipulators to achieve different tasks, such as the throwing one.

Education

Master's Degree in Mechanical Engineering
Summa cum laude with honours (GPA 3.93/4.00)

📅 September 2019 – October 2021   📍 Università degli studi dell'Aquila (L'Aquila, Italy)
Field of study: Mechatronic Engineering

Bachelor's Degree in Industrial Engineering
Summa cum laude with honours (GPA 3.87/4.00)

📅 September 2016 – October 2019   📍 Università degli studi dell'Aquila (L'Aquila, Italy)
Field of study: Mechanical Engineering

Advanced training

Visiting Student
The BioRobotics Institute – Brain-Inspired Robotics Laboratory
Scuola Superiore Sant'Anna

📅 March 2021 – October 2021   📍 Pisa, Italy

🔗 https://www.santannapisa.it/en/institute/biorobotics/brair-lab
Achievements/tasks: Experimental activities on a soft robotic manipulator and the development of an AI-based controller to achieve for the first time the throwing task with this kind of robot.

Undergraduate Research Opportunities Programme - UROP
Clean Energy Processes Laboratory
Imperial College London

📅 July 2019 – September 2019   📍 London, United Kingdom

🔗 https://www.imperial.ac.uk/clean-energy-processes/
Achievements/tasks: Analytical modelling and optimisation of concentrated solar power (CSP) plants, that allowed to estimate the energy system performance and identify the best working fluid.

National summer school on modern physics
Italian Ministry of education, university and research

📅 July 2015   📍 Udine, Italy
Only 50 Italian students admitted per year. Selection based on merit.

Summer school on experimental sciences
Italian National Institute for Nuclear Physics (INFN)

📅 June 2014   📍 L'Aquila, Italy
Only 20 students from high schools in the Abruzzo region (Italy) admitted per year. Selection based on merit.

Professional qualifications

Chartered senior industrial engineer
Ordine degli ingegneri dell'Aquila
📅 2022

Certified LabVIEW Associate Developer
National Instruments
📅 2019

European Project Management Certificate
AICA
📅 2021

Complete Python Bootcamp: Go from zero to hero in Phyton data
Udemy
📅 2017

Deep Learning Specialization
Coursera
📅 2021

First Certificate in English - Grade B (CEFR Level B2)
Cambridge English
📅 2016

Areas of Interest

- Design
- BioInspired Robotics
- Soft Robots
- Human-Machine Interaction
- Cobot
- Machine Learning
- Control

Languages

Italian ●●●●● **English** ●●●●○

Digital and Soft Skills

- Teamwork
- Problem Solving
- Good listener and communicator
- Python
- MATLAB & Simulink
- CATIA
- SolidWorks
- ANSYS
- Office Suite
- LaTeX

Awards

Best mechanical engineering student
EDA industries, "Il Sorriso di Filippo" charity and Chamber of Commerce of Rieti Province
📅 2017   📍 L'Aquila, Italy

High-performing high school student
Sulmona city council
📅 2017   📍 Sulmona, Italy

Member of Albo Nazionale delle Eccellenze
Italian Ministry of Education, University and Research
📅 2016   📍 Italy

Publications and workshops

- **Diego Bianchi**, Michele Gabrio Antonelli, Andrea Centurelli, Cecilia Laschi and Egidio Falotico. *Design and Development of a Controller for a Soft Robot Involved in Throwing Task*. Presented at the online symposium with the Shibaura Institute of Technology in September 2021.
- **Diego Bianchi**, Michele Gabrio Antonelli, Cecilia Laschi and Egidio Falotico. *Open-loop control of a soft arm in throwing tasks*. Published at ICINCO 2022.

References

- **Professor Egidio Falotico**, Scuola Superiore Sant'Anna (Pisa, Italy), egidio.falotico@santannapisa.it
- **Professor Cecilia Laschi**, National University of Singapore (Singapore, Singapore), mpeclc@nus.edu.sg
- **Professor Christos Markides**, Imperial College London (London, United Kingdom), c.markides@imperial.ac.uk