Francesco Ponzio | Ph.D.

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Work Experience

Work Experience	
Postdoctoral Researcher Dept. of Control and Computer Engineering, Polytechnic University of Turin	from 2021
Research assistant Dept. of Control and Computer Engineering, Polytechnic University of Turin	2015-2017
Temporary research fellow	
Dept. of Neuroscience, University of Turin	2014-2015
Patent Applications	
IT Patent No. 102017000129971 : Roatta S.; De Sperati C.; Mesin L.; Pasian V.; and system for detecting binary responses by analyzing the pupil diameter of a subj	
Founded projects	
BEYOND EYE MOVEMENTS 2018 Research project founded by Compagnia Di San Paolo	2018
Devices for NeuroControl and NeuroRehabilitation, DENECOR	
European funded project	2015
Education	
Ph.D. in Control and Computer engineering	
Polytechnic University of Turin	2017-2020
Master of Science in Biomedical engineering	
Polytechnic University of Turin	2012-2014
Bachelor of Science in Biomedical engineering	
Polytechnic University of Turin	2009-2012

Programming: Python, Matlab, R, C.

Operating systems: Linux, Windows, macOS.

AI: TensorFlow, PyTorch, Keras, scikit-learn.

Computer vision: OpenCV, ITK, VTK, ImageJ.

Data science: Strong expertise and theoretical understanding of the Al's backbone technologies (machine and deep learning). Solid know-how in statistics, data visualization, and management of big data flows. **Image processing**: Traditional and learning-based image processing for classification, segmentation and

object detection.

Technical Skills

Electronics: Single board computers programming. Design of systems for detection, conditioning and processing of biomedical signals.

Biomechanics: Human motion analysis and multi-body systems dynamics.

Others: Medical instrumentation, biomedical application of electromagnetic fields, human physiology, biology, organic and inorganic chemistry.

Teaching

Currently enrolled in the teaching register*:

ING-INF/05 - SISTEMI DI ELABORAZIONE DELLE INFORMAZIONI

*Albo degli studiosi e degli esperti esterni al Politecnico di Torino qualificati allo svolgimento di attività didattica integrativa

From 2021/2022: Teaching assistant for Machine learning in application (Polytechnic University of Turin, Master's Degree). Preparation of teaching material, laboratory assignments and assistance to laboratory classroom. Language: Italian. Programming: Python.

From 2020/2021: Teaching assistant for Computer Science (Polytechnic University of Turin, Bachelor's Degree). Preparation of teaching material, laboratory assignments and assistance to laboratory classroom. Language: Italian. Programming: Python.

2021/2022, 2020/2021: Teaching assistant for AI and ML - theory and models (Polytechnic University of Turin, 2nd level Master's degree). Preparation of teaching material, laboratory assignments and assistance to laboratory classroom. Language: English. Programming: Python, R.

2019/2020: Teaching assistant for Bioinformatics (Polytechnic University of Turin, Master's Degree course). Preparation of teaching material, laboratory assignments and assistance to laboratory classroom. Tutoring of research projects on Machine/Deep Learning applied to Bioinformatics and Bioimaging. Language: English.

2018/2019, 2019/2020: Teaching assistant for Computer Science, (Polytechnic University of Turin, Bachelor's Degree course). Preparation of teaching material, laboratory assignments and assistance to laboratory classroom. Language: Italian. Programming: C.

Publications

Updated list here.

Languages

Italian: Mother-tongue

English: Fluent, First Certificate in English

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