

Francesco Ponzio | Ph.D.

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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.; Pasion V.; Ponzio F. *Procedure and system for detecting binary responses by analyzing the pupil diameter of a subject*, 2017

Founded projects

BEYOND EYE MOVEMENTS 2018

Research project founded by Compagnia Di San Paolo 2018

Devices for NeuroControl and NeuroRehabilitation, DENECON

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

Technical Skills

Programming: Python, Matlab, C

Operating systems: Linux, Windows, macOS

AI: TensorFlow, PyTorch, Keras, scikit-learn

Computer vision: OpenCV, ITK, VTK, ImageJ

Data science: Machine and deep learning, statistics, data visualization, and management of big data flows. Strong expertise and theoretical understanding of the technologies behind AI

Image processing: Traditional and learning-based image processing oriented to classification, segmentation and object detection tasks

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

A.A. 2021/2022: Teaching assistant for Computer Science (14BH). Preparation of teaching material, laboratory assignments and assistance to laboratory classroom. Language: Italian. Programming: Python. Hours: 27. CPD index: N/A

A.A. 2020/2021: Teaching assistant for AI and ML - theory and models. 2nd level University Master degree. Preparation of teaching material, laboratory assignments and assistance to laboratory classroom. Language: English. Programming: Python. Hours: 12. CPD index: N/A

A.A. 2020/2021: Teaching assistant for Computer Science (14BH). Preparation of teaching material, laboratory assignments and assistance to laboratory classroom. Language: Italian. Programming: Python. Hours: 50. CPD index: 3.05

A.A. 2019/2020: Teaching assistant for Computer Science (12BH). Preparation of teaching material, laboratory assignments and assistance to laboratory classroom. Language: Italian. Programming: C. Hours: 50. CPD index: 3.31

A.A. 2019/2020: Teaching assistant for Bioinformatics (01OV). 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. Hours: 10. CPD index: 3.45

A.A. 2018/2019: Teaching assistant for Computer Science (12BH). Preparation of teaching material, laboratory assignments and assistance to laboratory experiences. Language: Italian. Programming: Python. Hours: 60. CPD index: 3.27

Publications

Updated list *here*.

Languages

Italian: Mother-tongue

English: Fluent, *First Certificate in English*

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