



Anna Coletti

WORK EXPERIENCE

01/06/2022 – 30/11/2022 Pescara, Italy

INTELLECTUAL COLLABORATION UNIVERSITY OF GABRIELE D'ANNUNZIO, PESCARA-CHIETI

Support to scientific dissemination activities within the Ud'A Scienza project, for the third mission of the Gabriele D'annunzio University; realization of seminars, conception and management of events within the activities in the 2023 researchers' night.

01/09/2022 – 31/10/2022 Florence, Italy

ETL DEVELOPER GFT TECHNOLOGIES

Skills acquired: management of business processes, data extraction and data migration method for Banca Intesa San Paolo projects.

EDUCATION AND TRAINING

01/09/2014 – 26/10/2018 Pisa, Italy

BACHELOR'S DEGREE IN MATHEMATICS University of Pisa

Field of study Natural sciences, mathematics and statistics | **Final grade** 98/110 |

Thesis Kuramoto's model: analysis of synchronization phenomena and biomedical applications

27/10/2018 – 15/07/2022 Pisa, Italy

MASTER'S DEGREE IN MATHEMATICS University of Pisa

The thesis work was done in collaboration with the neurology department of the Santa Chiara hospital in Pisa.

Main subjects of study: Probability and Statistics, Calculus of Variations, Partial Derivative Equations, Numerical Analysis, Mathematical Analysis, Algebra, Physics (mechanics, electromagnetism, dynamic systems, thermodynamics and special relativity), computer programming (languages: C, Octave and Matlab)

Field of study Natural sciences, mathematics and statistics | **Final grade** 102/110 |

Thesis On Jansen - Rit system modelling epilepsy phenomena. Search for features through the wavelet analysis

01/11/2022 – CURRENT Pisa, Italy

NATIONAL PHD IN AI FOR HEALTH AND LIFE SCIENCE Sant'Anna School of Advanced Studies in Pisa - Biomedical Campus University of Rome

Now I am a PhD student in National PhD in Artificial Intelligence for Health and Life science assigned to carry out its activities at the Biorobotics Institute of Sant 'Anna School of Advanced Studies – Pisa in the AHA Artificial Hands Area. I'm focus on the development of machine learning-based methods for adaptive prosthetic hand controls.

I use recent advances in machine learning (Augmented and virtual reality, deep neural networks, computer vision, transfer learning, multimodal data approach...) supported by the knowledge acquired from physical modelling to efficiently design ML models.

Field of study Software and applications development and analysis

● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2
FRENCH	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

Good knowledge of state-of-art deep learning libraries/frameworks, such as Pytorch, TensorFlow, Keras | Excellent knowledge of computer vision and machine learning techniques (deep learning) | Excellent knowledge of programming in Python, C, MATLAB, Octave | Good knowledge of R, Data stage, Teradata, SQL, MySQL | Good knowledge with Unity software for virtual reality | Experience with GIT | Basic knowledge of Html

● ADDITIONAL INFORMATION

PUBLICATIONS

[HANDdata - first-person dataset including proximity and kinematics measurements from reach-to-grasp actions.](#)

- 2023

E. Mastinu, A. Coletti, S. H. A. Mohammad, J. van den Berg, C. Cipriani, Sci Data 10, 405

[A wearable device for hand sensorimotor rehabilitation through augmented sensory feedback -](#)
2023

Vendrame, E., Coletti, A., Cappello, L., Mastinu, E., Cipriani, C. IEEE ICORR [proceedings]. 2023

On Jansen-Rit System Modeling Epilepsy Phenomena - 2022

Coletti, A., Slavova, A., NTADES 2022. Springer Proceedings in Mathematics & Statistics, vol 412

VOLUNTEERING

01/12/2018 - CURRENT Pediatric Department of the Santa Chiara Hospital (Pisa)

Volunteering through membership at the APP association (Friends of Pediatricians of Pisa)

DRIVING LICENCE

Driving Licence: B