Antonio
Longa

DATE OF BIRTH:
21/12/1994

CONTACT

Nationality: Italian

Gender: Male

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WORK EXPERIENCE

07/03/2019 – 27/09/2019

Research internship

Fabrizio Costa - University of Exeter

Graph embedding in low dimensionality.
In order to embed the graph, I tried the following models:

- Graph kernels
- Deep Neural Networks
- Autoencoder

Exeter, United Kingdom

09/2018 – 12/2018

Teaching assistant

Aristides Gionis - University of Aalto

I was the teaching assistant of the course "algorithmic methods of data mining". During that period, my work was the one to help correcting assignments, projects, and exams.

Helsinki, Finland

09/2018 – 09/2018

Web developer

Romina Rodigari

I developed a website for a farmhouse, optimizing performance for mobile devices.

Livigno, Italy

06/2013 – 08/2013

Quantity surveyor

De Piaz Massimo

During the summer of the 4th year of high school, I did an internship working as a quantity surveyor.

Tirano, Italy

EDUCATION AND TRAINING

04/11/2019 – CURRENT – Trento, Italy

Ph.D. Student

Università degli studi di Trento

In Information and Communication Technology, University of Trento, Fondazione Bruno Kessler (FBK), Italy

PhD student in the Mobile and Social Computing Lab led by Bruno Lepri and in the Structured Machine Learning Group led by Andrea Passerini

EQF level 8

09/2017 – 23/10/2019 – Trento

● **M.S. in Computer Science**
University of Trento

Major: Data Science

Thesis: Graph embedding in 2D.

Advisors: Professor Andrea Passerini

Co-Advisors: Professor Fabrizio Costa

Final Mark: 110 + lode (over 110)

EQF level 7

03/2019 – 27/09/2019 – Exeter, United Kingdom

● **ERASMUS+ Internship**
University of Exeter

I have done the Master Thesis at the University of Exeter, under the supervision of professor Fabrizio Costa

EQF level 7

09/2018 – 12/2018 – Helsinki, Finland

● **ERASMUS+**
Aalto University

I have been accepted from Aalto University as an exchange student.

EQF level 7

09/2014 – 10/2017 – Milano, Italy

● **B.S. in Computer Science**
University of Milano-Bicocca

Thesis: Analysis od Smali code for detection of obfuscation in Android applications
Advisor: Professor Alberto Leporati
Co-Advisor: Professor Claudio Ferretti

Final Mark: 103 (over 110)

EQF level 6

● **Quantity surveyor**

State Technical Institute "A. De Simoni - M. Quadrio"

Final Project: Thermodynamic Solar Panel: a solar panel that does not need solar rays and warm

Field(s) of study
  ○ Architecture and building

EQF level 4

● **Study holiday**

Eurocentres English school

● **Study holiday**

Hermann Hesse Kolleg

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

English

Listening	Reading	Spoken production	Spoken interaction	Writing
C1	B2	B2	B2	B2

German

Listening	Reading	Spoken production	Spoken interaction	Writing
A1	A1	A1	A1	A1

DRIVING LICENCE

● Driving Licence: **AM** / Driving Licence: **A1** / Driving Licence: **B**

PROJECTS

Projects

University of Trento - Classes projects

- Machine learning class: bayesian network (Hugin), svm (Python, Sklearn, Numpy) , neural network (Python, Tensor Flow)
- Simulation and performance evaluation: Markov chain (R), queue systems (R), simulation (Python)
- Security testing: Penetration testing, taint analysis, exploit creation (PHP)
- Multimedia data security: MATLAB
- Network security: VirtualBox, Python
- Mobile Cloud Computing: front end (Android), back end (node js, Google Cloud Console)
- Numerical matrix computation: MATLAB
- Non linear optimization: Julia
- Computational methods in stochastics: Python

University of Milano-Bicocca - Classes projects

- Programming languages: Java, Prolog, Lisp
- Languages and computability: Lex and Yacc
- Statistic and probability: R
- Distributed system: back end (java servlet), front end (javascript and AJAX), mobile (Android), database (rdf), concurrency
- Data base 2: relational (MySQL), non relational (MongoDB, Neo4j, RDF)
- Bioinformatic: Ruby

ORGANISATIONAL SKILLS

Organisational skills

- Experience and abilities in work group; during the high school I used to organize some events and exhibitions co-operating with my class-mates.

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

- The teaching assistant activities allowed me to improve interaction in another language with students.
- High level of self-government thanks to my college period (during the high school the school was far away from my home) and my university period (I spent three years sharing a flat in Milan).

CERTIFICATIONS

Certifications

Image Forensic Challenge

During the first semester of my Master degree, me and three of my colleague did a challenge against the University of Innsbruck in which the purpose was to develop a software that can detect tampers on images. On the competition there was 19 group. we got the seventh place. Link

Certifications

National Register of Excellence

During 12th grade me and some of my classmates participated in a competion, and we finished second. The competition was organized by "Unioncamere", and the MIUR (Ministry of Education, Universities and Research) entered us in the excellence roster. Link