Antonio Longa

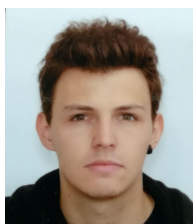### PERSONAL INFORMATION

📍 Via dala Gesa 580, 23041 Livigno (Italy)

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✉ longaantonio@gmail.com

Sex Male | Date of birth 21/12/1994 | Nationality Italian

WORK EXPERIENCE

07/03/2019–27/09/2019

Research internship

Fabrizio Costa - University of Exeter, Exeter (United Kingdom)

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

- Graph kernels
- Deep Neural Networks
- Autoencoder

09/2018–12/2018

Teaching assistant

Aristides Gionis - University of Aalto, Helsinki (Finland)

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.

09/2018–09/2018

Web developer

Romina Rodigari, Livigno (Italy)

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

06/2013–08/2013

Quantity surveyor

De Piaz Massimo, Tirano (Italy)

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

06/2011–09/2011

Warehouse worker

Onorato Longa- LO.GA., Livigno (Italy)

During the summer I worked as a warehouse worker in a hardware shop.

07/2010–09/2010

Dishwasher and kitchen hand

Romano Galli
Hotel Parc Naziunal, Il Fuorn, CH-7530 Zernez (Switzerland)
http://www.ilfuorn.ch

EDUCATION AND TRAINING

04/11/2019–Present

Ph.D. Student   EQF level 8

Università degli studi di Trento, Trento (Italy)

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 Andrea Passerini

| 09/2017–23/10/2019 | **M.S. in Computer Science** | EQF level 7 |

University of Trento, Trento (Italia)

Major: Data Science
Thesis: Graph embedding in a low dimensional vector space
Advisors: Professor Andrea Passerini
Co-Advisors: Professor Fabrizio Costa
Final Mark: 110 + lode (over 110)

| 03/2019–27/09/2019 | **ERASMUS+ Internship** | EQF level 7 |

University of Exeter, Exeter (United Kingdom)

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

| 09/2018–12/2018 | **ERASMUS+** | EQF level 7 |

Aalto University, Helsinki (Finland)

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

| 09/2014–10/2017 | **B.S. in Computer Science** | EQF level 6 |

University of Milano-Bicocca, Milano (Italy)

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)

| 09/2009–06/2014 | **Quantity surveyor** | EQF level 4 |

State Technical Institute "A. De Simoni - M. Quadrio", Sondrio (Italy)

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

| 06/2012–08/2012 | **Study holiday** |

Eurocentres English school, Bournemouth (United Kingdom)

| 06/2008–07/2008 | **Study holiday** |

Hermann Hesse Kolleg, Horb am Nackar (Germany)

PERSONAL SKILLS

Mother tongue(s)   Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	B2	B2	B2	B2
German	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
<u>Common European Framework of Reference for Languages</u>

Communication 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).

Organisational / managerial 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.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Proficient user	Independent user	Proficient user

<u>Digital skills - Self-assessment grid</u>

Driving licence	AM, A1, B

ADDITIONAL INFORMATION

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. <u>Link</u>

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. <u>Link</u>

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