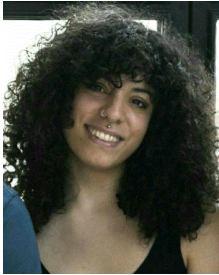# Grazia D'ONGHIA

10/02/1997   TORINO (TO) ITALY
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EDUCATION

09/05/2020 - 04/21/2023 * **Master's Degree in Computer Engineering**

Politecnico di Torino

Thesis: Use of SGX to protect network nodes

Supervisors Lioy A., Pedone I., Sisinni S.

Final grade 108/110

09/15/2016 - 07/29/2020 * **Bachelor's Degree in Physical Engineering**

Politecnico di Torino

Final grade 90/110

2016 **high school diploma MATURITA' CLASSICA**

Final grade 96/100

PROFESSIONAL EXPERIENCE

10/06/2021 - 02/23/2022 **Computer science tutor**

Politecnico di Torino - Torino - ITALY

Tutoring for students to help them studying for Computer Science exam at Politecnico di Torino

Temporary Work

10/04/2021 - 12/21/2022 **Laboratory assistant**

Politecnico di Torino - Torino - ITALY

Tutoring activity during laboratory slots of "Information System Security" course at Politecnico di Torino

Temporary Work

11/04/2019 - 03/05/2020 **Intern**

Istituto Nazionale di Fisica Nucleare - Torino - ITALY

Within INFN I3PET project an innnovative method for verifying range in Hadrontherapy has been developed. This method is based on time of fly of prompt photons. The internship focused on data analysis and optimization of iterative algorithms based on Maximum Likelihood Expectation Maximization for reconstruction of distribution of photon emission. At the same time another work of optimization has been done on the geometry of the scanner.

Internship

LANGUAGE SKILLS

Mother tongue   Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

COMPUTER SKILLS

OPERATING SYSTEM   Deep knowledge of both Unix and Windows operating systems
good level

PROGRAMMING LANGUAGE/CODE   C, JavaScript, React framework, Python (cryptographic applications), Go (Kubernetes), Assembler (ARM, MIPS), Java
good level

DATABASES   SQL and extended SQL (relational databases and data warehouse management, trigger management) Oracle DB, SQLite, Hadoop and Spark for Big Data analysis
good level

OTHER   Cloud computing and lightweight virtualization: familiarity with KVM, Docker and Kubernetes.
Knowledge of Intel SGX technology

PERSONAL SKILLS/OTHER SKILLS

During Master's Degree I developed teamwork and leadership skills by doing some projects related to courses:
- Backend developing of a web application for warehouse management - "Software Engineering" course
- Insertion of security feature in Kubernetes-based project (CrownLabs) developed at Polito - "Cloud Computing" course
- Kernel Programming in Linux - "System and Device Programming" course

Besides computer science I've always had other interests, such as music (I play piano, guitar and electric bass), dance and performance art.

OTHER INFORMATION

Driving license

Available to travel on business in Italy, abroad

PUBLICATIONS

2021   Pennazio, Francesco; Ferrero, Veronica; D'Onghia, Grazia; Garbolino, Sara; Fiorina, Elisa; Marti Villarreal, Oscar Ariel; Mas Milian, Felix; Monaco, Vincenzo; Monti, Valeria; Patera, Alessandra; Werner, Julius; Wheadon, Richard; Rafecas, Magdalena (2021). "Proton Therapy monitoring: Spatiotemporal Emission Reconstruction with Prompt Gamma Timing and implementation with PET detectors". In Physics in Medicine and Biology

* *Fields marked with an * are certified by Politecnico di Torino, while the potential thesis description is added by the candidate.*