



Matteo Ziino

Nationality: Italian | **Gender:** Male | **Email address:** matteo.ziino@unito.it

● ABOUT ME

I'm a Chemical and Material Sciences PhD student. My research activity focuses on solid state single photon sources based on defects in wide bandgap semiconductors.

● EDUCATION AND TRAINING

01/11/2024 – CURRENT Turin, Trent, Italy

PHD IN CHEMICAL AND MATERIAL SCIENCES Università degli Studi di Torino, Fondazione Bruno Kessler

- Characterization of color centers in silicon carbide and diamond
- Development of super-resolution fluorescence microscopy setups capable of operating on multiple color centers

Website <http://www.solid.unito.it/> | **Field of study** Physics | **Level in EQF** EQF level 8

01/09/2021 – 15/04/2024 Turin, Italy

MASTER'S DEGREE IN PHYSICS OF ADVANCED TECHNOLOGIES Università degli Studi di Torino

- Basics of Solid State Physics
- Indirect Bandgap Semiconductors and Semiconductor-Based Devices
- Superconductivity
- Basics of Microelectronics and FPGA programming
- Experimental research in Quantum Optics and Color Center Single Photon Sources in Diamond

Website <https://www.unito.it/> | **Field of study** Physics | **Final grade** 110/110 Cum Laude With Mention |

Level in EQF EQF level 7 |

Thesis Funzionalizzazione di Diamante Artificiale con Fasci Ionici per il Controllo Elettrico di Centri di Colore/Artificial Diamond Functionalization by means of Ion Beams for the purpose of Electrical Control of Color Centers

01/09/2017 – 14/04/2021 Turin, Italy

BACHELOR'S DEGREE IN PHYSICS Università degli Studi di Torino

Website <https://www.unito.it/> | **Field of study** Physics | **Final grade** 107/110 | **Level in EQF** EQF level 6

● PUBLICATIONS

2024

[Creation, Control, and Modeling of NV Centers in Nanodiamonds](#)

Contributed by providing the experimental setup for evaluating the emitters lifetime in the nanodiamond samples

P. Aprà et al., Adv. Funct. Mater. 2024, 34, 2404831.

● WORK EXPERIENCE

01/08/2024 – 31/10/2024 Turin, Italy

RECIPIENT OF A RESEARCH SCHOLARSHIP UNIVERSITÀ DEGLI STUDI DI TORINO

- Development of a super-resolved STED microscope based on a white laser tunable light source
- Ideation and construction of the sample scanning system for a confocal microscope integrated with an optical cryostat

- 90 hour of student tutoring during the Solid State Physics and Electronics Bachelor's Degree laboratory courses
- Helped students employ their critical thinking skills and knowledge of the subject to understand the phenomena they were observing and sort out the discrepancies

07/09/2020 – 30/10/2020 Turin, Italy

TRAINEE EX PRIMA ELECTRO S.P.A.

- High-power infrared laser diodes characterization
- Process monitoring by checking for faulty behaviour in samples from different production batches

Business or Sector Manufacturing | **Website** <https://www.primaelectro.com/en>

● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

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

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

● DIGITAL SKILLS

Data Analysis

data processing and analysis software: Origin (advanced) | Basic knowledge of ROOT | Numerical methods

Programming Languages

C++ Object Oriented | Python Language - Basic knowledge

Text Editors

PDF LaTeX | Text processing (Word, LaTeX) | Microsoft Office (Word , Excel and Power Point)

● HONOURS AND AWARDS

05/2017

Honorable mention at the National Finals of the Mathematical Olympiad (Individual Competition) – Unione Matematica Italiana

Honorable mention awarded for correctly solving one of the problems

Link <http://olimpiadi.dm.unibo.it/archivio/finali-nazionali/cesenatico-2017/>

Autorizzo il trattamento dei miei dati personali presenti nel CV ai sensi dell'art. 13 d. lgs. 30 giugno 2003 n. 196 - "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 - "Regolamento europeo sulla protezione dei dati personali".

Torino , 07/11/2024