Matteo Verdi

Curriculum Vitae

General information

Born	23/04/95
Place of birth	Pavullo Nel Frignano (MO)
Nationality	Italy
Address	Via Giardini Sud 1599, 41028 Serramazzoni (MO)

Education

2017-current **Master of Physics**, *Alma Mater Studiorum-Università di Bologna*, Bologna, Italy.
Curriculum: Material Physics and Nanoscience (MANO)
Age at graduation: 24
Official duration: 2 years
Final degree mark: 110/110 e lode
Graduation date: 25/10/2019

2014–2017 **Bachelor of Physics**, *Alma Mater Studiorum-Università di Bologna*, Bologna, Italy.
Age at graduation: 22
Official duration: 3 years
Final degree mark: 106/110
Graduation date: 01/12/2017

2009–2014 **Technical High School Degree**, *ITIS Enrico Fermi*, Modena, Italy.
Chemistry specialization
Leaving mark: 100/100

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Master Thesis

Title	Fabrication and characterization of ultra-flexible organometallic lead-halide perovskite based X-ray detectors
Supervisor	Beatrice Fraboni
Description	Fabrication of ultra-flexible perovskite photodiode with solution based technique. Electrical and optical characterization in order to study their performance as X-ray detectors.
Application	Medical imaging and public security.
Collaboration 1	SoMaP-Soft Matter Physics, JKU Linz, Autsria
Collaboration 2	LIOS-Linz Institute of Organic Solar cell, JKU Linz, Autsria

Bachelor Thesis

Title	Caratterizzazione di detector di raggi X basati su perovskiti-Perovskite X-ray detector characterization
Supervisors	Beatrice Fraboni
Description	Electrical characterization of different types of devices, photoconductors and solar cells, based on perovskites to assess their X-ray detection capability.
Application	Medical imaging and public security.

Experience

2019-current **Intern/Trainee**, *Johannes Kepler Univeristy JKU*, Linz, Austria.
Spin-coating technique and metal evaporation for the fabrication of perovskite solar cell.
Duration: 4 month

2019-current **Intern/Trainee**, *Alma Mater Studiorum-Università di Bologna*, Bologna, Italy.
Use of a X-ray tube for testing perovskite solar cells as ionizing radiation detetctors. Source meter unit and electrometer for electronic characterization of the devices. Nitrogen atmosphere chamber with a PID temperature controller for electronic characterization at low temperature. Use of a photocurent apparatus for studying optical and charge transport properties of the devices.
Duration: 2 month

2018 **NANO-BIS**, *Alma Mater Studiorum-Università di Bologna*, Bologna, Italy.
International summer school organized by the University of Bologna and the State University of Saint Petersburg. The lectures cover all the aspects of the nano-world: growth, characterization and the applications.

2018 **Workshop**, *Alma Mater Studiorum-Università di Bologna*, Bologna, Italy.
Topic 1:Tailored and tunable properties of nano-materials, introduction and applications-Prof.Horst Hahn
Topic 2:Crystallization of silicon ingots for solar cells: processes, methods and measurements-Prof. Marisa Di Sabatino Lundberg
Other activities:Power Point presentation entitled:"X-ray photocurrent measurement"

2017 **Workshop**, *Alma Mater Studiorum-Università di Bologna*, Bologna, Italy.
Topic 1:Organic materials for next-generation radiation detectors-Professor Paul Sellin
Topic 2:Atomically resolved neutron diffraction studies on the nanoscale. New instrumentation for complex structural problems in physics, chemistry and materials science-Dr. Daniel Browon
Other activities: Presentation of a poster entitled :"Data storage: beyond Feynman"

2017 **Intern/Trainee**, *Alma Mater Studiorum-Università di Bologna*, Bologna, Italy.
Calibration of a molibdenum X-ray tube used, combined with a suorce meter unit for the characterization of ionizing radiation detetctors.
Duration: 150 hours

2013 **Intern/Trainee as Chemist**, *Policlinico di Modena*, Modena, Italy.
Chemist at the forensic toxcology laboratory, analysis of blood and tissues by gas chromatography, HPLC and mass spectrometry
Duration: 2 weeks

2013 **Intern/Trainee as Chemist**, *Vetriceramici*, Fiorano Modenese (MO), Italy.
Chemist at the laboratory of the ceramic paint factory for the preparation of glazes.
Duration: 1 month

Languages

Italian Native

English B2

Computer skills

OS	Windows	Typography	LaTeX, Word
Programming	C/C++	Presentation	Power Point
Measuring	LabVIEW	Data analysis	Origin Lab

Interests

Electronics	I'm interested in the world of Arduino and in microcontrollers.
Minerology	Mineral collection and searching.