Europass Curriculum Vitae

Personal information

Name / Surname	**Riccardo Rossini**
Personal Email	riccardo.rossini01@universitadipavia.it
Date of birth	21/11/1997 in Cremona (Italy)

Education and training

PhD student
from 1 October 2021

University of Pavia
PhD student in Physics, research topic: Nuclear Physics, Physics of fundamental interaction. Research activity within the FAMU experiment (INFN, CSN III).
Internal supervisor: Prof Alessandro Menegolli.
External supervisor: Dr Massimiliano Clemenza (INFN Milano-Bicocca).

Master Degree in Physics
26 October 2021

University of Milano-Bicocca, Milan
Master Degree in Physics, curriculum in Particle and Applied Physics.
Final mark: **110/110, cum laude**. Thesis work:
Multidisciplinary protocol in the study of meteorites: γ-ray spectroscopy and neutron techniques combined with μ-Raman and SEM-EDS.
Supervisors: Prof Giuseppe Gorini, Dr Maya Musa (Gulf Institute of Gemology), Dr Daniela Di Martino, Dr Massimiliano Clemenza.

Bachelor Degree in Physics
19 November 2019

University of Milano-Bicocca, Milan
Bachelor Degree in Physics (final mark: **107/110**). Thesis work:
Neutron studies on $\beta \rightleftharpoons \alpha$ transition in tin-based commercial and historical samples.
Supervisors: Dr Daniela Di Martino, Dr Curzio Merlo.
I carried out the measurements included in my thesis work at the ISIS Neutron and Muon Source (Didcot, UK) on 7-11 October 2019.

Applied Science High School
July 2012

Liceo Scientifico G. Aselli, Cremona
Liceo Scientifico - opzione Scienze applicate diploma, science High School (final mark: **100/100**).

Personal skills and competences

Mother tongue: Italian.

Other languages: English C1 (advanced level in CEFR), CAE certificate achieved in March 2013.
French A1 (elementary level in CEFR), self-certification.

Technical skills and competences: Nuclear Physics instruments.
Material analysis techniques: Raman, SEM, time-of-flight neutron diffraction, gamma spectroscopy with HPGe.

Computer skills and competences	Computer programming: C, C++, MATLAB, ROOT. Knowledge and use of machine learning and deep learning techniques in MATLAB and Monte Carlo simulation in GEANT4/C++. LaTeX text editor. Spectroscopy and Diffraction Software: Mantid, GSAS. Good knowledge of Microsoft Windows, MacOS and Linux operating systems and related software.

Further training activities

AMARCH 2021 online, 10-12 February 2021	Theoretical and practical school on X-ray Fluorescence (XRF) and X-Ray Diffraction (XRD) in archaeometry.

National Conferences

107^{th} SIF online, 13-17 September 2021	107^{th} SIF (the Italian Physical Society) Congress. Talk: R. Rossini, D. Di Martino, M. Clemenza, M. Musa, M. Laubenstein, A. Scherillo, M.P. Riccardi, C. Cazzaniga, G. Gorini; *Nuovo protocollo multidisciplinare non invasivo per lo studio di meteoriti tramite spettroscopia gamma con HPGe e tecniche di indagine neutronica su sorgenti impulsate.*
PLS Congress online, 1-2 Luglio 2021	National workshop "Stage e laboratori per la didattica e l'orientamento formativo in fisica" within the Piano Lauree Scientifiche (PLS) project by the Italian Ministry of Public Education. Talk: R. Rossini, A. Nava, M. Piarulli, L. D'Alfonso; *LabEx ai tempi del COVID.*
Lo Stato dell'Arte 18 online, 11-21 December 2020	18^{th} Lo Stato dell'Arte, National Conference held by IGIIC (the Italian Group of the International Institute for Conservation). Talk: D. Di Martino, R. Rossini, S. Colombi, C. Merlo, C. Bonizzi and P. Barbieri; *Il degrado delle leghe di stagno nelle canne d'organo: studio multidisciplinare non distruttivo e prospettive di ricerca.*
106^{th} SIF online, 14-18 September 2020	106^{th} SIF (the Italian Physical Society) Congress. Talk: D. Di Martino, R. Rossini, S. Colombi, E. Perelli Cippo, A. Scherillo, R. Lorenzi, C. Merlo, C. Bonizzi and G. Gorini; *Il degrado delle canne d'organo storiche a base stagno: risultati delle analisi Raman e con neutroni.*

Working Experience

Academic Year 2021/2022 (ongoing)	**Physics I - tutor** Tutor for the couse of Physics I (first year bachelor degree in Physics) at the University of Milano-Bicocca (40h).
Academic Year 2020-2021	**Tutor (type A) for first-year students** Tutoring for the first-year students of the Degree in Physics of the University of Milano-Bicocca (20h of follow-up and training, 58h of tutoring).
15 February - 14 March 2020	**LABEX project tutor** Tutoring for the LABEX Modern Physics laboratory for High School students at the Physics Department of the University of Milano-Bicocca (46h).

Further Experiences and Personal Interests

Science communication	2018-2020 LABEX project at the University of Milano-Bicocca.
Student representative	Student representative in the Physics Department of the University of Milano-Bicocca from 2017 to 2021. In the first two years I also served as vice-president of CPDS Commission in the same department.
Organisation and leading skills	I belong to the student representative list *Red Shift*, which allowed me to make experience in public relations and improve my organisation skills. I organised and managed a trip to ITER (France) in May 2019 for 50 students of our Department. I was Staff Leader at the conference Space Jump with ESA astronaut Samantha Cristoforetti (May 2018), where I led and helped the staff to cope with $\sim$ 900 people attending the event.