
Education

Phd Student in Statistical Mechanics 10/2018 – present
Università degli Studi di Milano
Supervisor: Sergio Caracciolo
Research topics: Combinatorial Optimization, Theoretical Data Science

University Student in Physics 10/2013 – 10/2018
Università degli Studi di Milano
3 years of Physics (final grade 110/110 cum laude, supervisor Prof. Luca Molinari)
+ 2 years of Theoretical Physics (final grade 110/110 cum laude, supervisor Prof. Sergio Caracciolo)

Schools

Winter School 02/2019
Galileo Galilei Institute, Florence (IT)
Lectures about Statistical Field Theory in Condensed Matter.

Summer School 09/2015
European Synchrotron Radiation Facility, Grenoble (FR)
Lectures about x-ray and neutron techniques in diffractometry and spectroscopy. Experimental project (Fluorescence Spectroscopy of Eu3+) with the "Electronic structure, magnetism and dynamics" group.

Internship 02/2013
European Joint Research Center, Ispra (IT)
Activities with researchers on: nuclear decommissioning, radioprotection and EU community policies.

Summer School 06/2012
Scuola Normale Superiore, Pisa (IT)
Lectures by experts on a wide variety of topics, from Literature to Physics.

Work

University Tutor 03/2019 – 09/2019
Università degli Studi di Milano
Tutoring for Complex and Functional Analysis course.

Supervisor for Junior Camps 09/2014 – 12/2017
Sardinia Radio Telescope, Cagliari (IT) & Nus Observatory, Nus (IT)
Logistic and teaching support at 6 different Astrophysics Junior Camps organized by Sterrenlab.

Physics Teacher 10/2016 – 06/2017
Istituto Professionale "L. Einaudi", Varese (IT)
Physics teacher for the first year adult class of a professional secondary public school.

Private Lecturer 11/2013 – 06/2018
Varese (IT)
Private lectures in Maths and Physics up to university education. Private lectures in Computer Science, Chemistry and Latin up to high school education.

Selected publications

1. Di Gioacchino, A., Molinari, L. G., Erba, V. & Rotondo, P. Unified Fock space representation of fractional quantum Hall states. *Phys. Rev. B* **95**, 245123. <https://link.aps.org/doi/10.1103/PhysRevB.95.245123> (24 2017).

Vittorio Erba

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Languages

Italian Mothetongue
English Certified CEFR C1

Computer Skills

C++	<div><div></div><div></div></div>
Python	<div><div></div><div></div></div>
Julia	<div><div></div><div></div></div>
Mathematica	<div><div></div><div></div></div>
Bash	<div><div></div><div></div></div>
L ^A T _E X	<div><div></div><div></div></div>
Office suites	<div><div></div><div></div></div>
HTML, CSS	<div><div></div><div></div></div>

Honors & Awards

Excellence Scholarship 2015 – 2017
Università degli Studi di Milano

1st place "Valerio Filippini" 04/2012
University of Pavia (IT)
Contest in Physics for high school students.

Guitar Studies Scholarship 2005 & 2012
Municipality of Besozzo (IT)

Diplom in Solfege 06/2008
Conservatory of Novara (IT)

Volunteering

Migrant hosting facilities 2017
Laveno (IT)

Secretary of AISF 2015 – 2017
AISe: Italian Association of Physics Students

PAPAP16 Organizer 2016
PAPAP: Particle and Astroparticle Physics Autumn Programme
Full organization of the visits to the Frascati INFN Labs and to the Gran Sasso LNGS Labs.