

PERSONAL INFORMATION

Riccardo Cipolloni

Current interests:

- Disordered systems, computational and theoretical aspects
- Statistical mechanics and stochastic processes
- Low-temperature phenomena and non-perturbative methods

EDUCATION

Nov 2022 - Ongoing

PhD programme in Physics, Sapienza University of Rome, Rome, Italy.

Theoretical and Computational Physics: Statistical Mechanics and Stochastic Processes in Disordered Systems

Thesis Directors: Prof. F. Ricci-Tersenghi and Prof. F. Zamponi

Thesis Project: Activated processes in disordered systems

Oct 2018 – Jan 2022

Master's Degree in Physics, Sapienza University of Rome, Rome, Italy.

Final Grade: 110/110 cum Laude (Summa cum Laude).

Theoretical Physics: Statistical Mechanics, Field Theory and Computational Physics

Thesis Supervisor: Prof. A. Pelissetto

Thesis Title: Three Dimensional Gauge Theories: Perturbative Renormalization Flow Analysis (Field Theory, Statistical Mechanics)

Sep 2015 – Oct 2018

Bachelor's Degree in Physics, Sapienza University of Rome, Rome, Italy.

Final Grade: 110/110 cum Laude (Summa cum Laude).

Thesis Supervisor: Prof. G. Organtini

Thesis Title: Markov Chains, An Introduction and 3 Computational Studies (Probability Theory, Computational Physics)

Sep 2010 – Jun 2015

Italian Scientific Lyceum Diploma, LSS G. Peano, Monterotondo, Italy.

Final Grade: 100/100 cum Laude.

Bilingual Scientific Programme (French)

FURTHER ACADEMIC TRAINING

Apr 2025 – May 2025
(2 weeks)

São Paulo School of Advanced Science on Disordered Systems, ICTP-SAIFR/IFT-UNESP

Focus on statistical physics of complex and glassy systems with interdisciplinary applications. Poster presentation: 'Transition paths sampling in Ising systems on heterogeneous graphs'.

Oct 2024 – Apr 2025

Visiting PhD Student at LPTHE, Sorbonne.

Under the supervision of Prof. L. F. Cugliandolo, I am currently studying the mean field theory of glasses with a focus on coupled spherical p-spin models, investigating the slow relaxation and aging processes that characterize these systems

July 2024 (2 weeks)

Summer School in Complex and Glassy Physics, Institut d'Études Scientifiques de Cargèse.

Focus on statistical physics of complex and glassy systems with interdisciplinary applications.

Mar 2019 – Nov 2019

WaveScales Experiment

2024	Part of Human Brain Project's Subproject WP3.2 'Sleep/wake Mar 2019 Nov 2019 April to May 2023 (2 weeks) July 2024 (2 weeks) transitions and slow-wave activity APE parallel/distributed computing lab- INFN Supervisors: Dr. P.S. Paolucci, Dr. G. De Bonis, Dr. C. Capone, Dr. E. Pastorelli
2023	Winner of the 'Call for the financing of mobility abroad of PhD Students, promoted by Sapienza University of Rome'
2022	Recipient of the 'Laureato Eccellente' Recognition bestowed by Sapienza University of Rome and Fondazione Roma Sapienza
2015, 2017, 2019, 2020	Recipient of the Doctoral Scholarship awarded through selection by Sapienza University of Rome
2015, 2017	Winner of the Annual Scholarship promoted by Fondazione Igino Betti
2015, 2017	Winner of 'Studente Meritevole' Fellowship promoted by 'Sapienza University of Rome'
2015, 2017	Winner of the Annual Scholarship promoted by 'Autostrada dei Parchi'
RELEVANT WORKING EXPERIENCE	
2013 - Ongoing	One-on-one tutor in Maths and Physics, with high school students and, since 2017, with college students also Many years experience with SEN (Special Education Needs) and SLD (Specific Learning Disorders) students.
Apr 2022 – Nov 2022	Software Engineer Intern, NTT Data Inc.- Microsoft Competence Center Project: Excellence School Cloud Engineer Full-time internship as a full-stack software engineer Three months professional training course. On-the-job training within a team of specialists, working on a project commissioned by a multinational company. Up-to-date technologies have been adopted for the full-stack development of the elaborated cloud-native application.
LANGUAGE SKILLS	
Italian	First Language
English	Certificate of Advanced English (CAE, Cambridge Assessment). CEFR C1
French	8 years of Secondary School education. CEFR B2
IT SKILLS	
OS	Familiar with Linux, Windows and Mac based operating system
Programming Languages	C (Independent User), C++ (Independent User), C#(Independent User), Fortran (Independent User), JavaScript (Independent User), TypeScript (Independent User), Python (Independent User)
Softwares	Microsoft Office, Microsoft 365 (include Excel, PowerPoint), LATEX editors, Wolfram Mathematica, Visual Studio, Visual Studio Code, SQL Server Management Studio (SSMS)
Software Engineering	Design patterns, systems development life cycle (SDLC), agile methodology, UML, CI/CD, DevOps, Git (GitHub, GitLab), ASP.NET Core, HTML, CSS, Bootstrap, React (Node.js), Blazor, relational databases and query languages (SQL, T-SQL), Microsoft Azure
OTHER TECHNICAL SKILLS	
Lab Skills	Attended mandatory laboratory courses in mechanics, thermodynamics, electrical and electronic circuits, and optics at Sapienza University of Rome Had a little experience with imaging and image processing techniques (using Python), during the WaveScalEs Experiment collaboration period

Ai fini della pubblicazione

F.to Riccardo Cipolloni
26/06/2025