

# Matteo Mariani

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## Personal Profile

I am a second-year student of Master's degree in Physics at Università di Roma La Sapienza. During the Bachelor's degree I developed solid skills in mathematics, physics and computer programming. The *Excellence Program* of my University has allowed me to deepen multiple topics dealt with during the lectures. During the Master's, I specialized in a transversal and in-depth study of the main branches of Statistical Physics. My thesis, on which I am currently working, is an analysis of real space condensation for interacting systems.

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## Education

- September 2020-Present **PhD in Physics**, *Politecnico di Torino, Department of Physics*.  
Advisor: Prof Alfredo Braunstein
- September 2018–September 2020 **Laurea Magistrale in Physics with 110/110 cum laude**, *Università di Roma La Sapienza, Department of Physics*.  
Thesis title: The condensation transition in diluted p-spin ferromagnetic models with global constraints. Advisor: Prof Federico Ricci Tersenghi
- October 2015–July 2018 **Laurea in Physics with 110/110 cum Laude**, *Università di Roma La Sapienza, Department of Physics*.  
Thesis title: Modelli fisici alla base della microscopia e della spettroscopia a forza atomica. (Physics models in AFM microscopy and spectroscopy). Advisor: Prof Naurang Saini
- October 2010–July 2015 **High School**, *Liceo Scientifico Cavour, Via delle Carine 1, Rome, Italy*.  
Final Grade 100/100

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## Research experience

- April 2019-May 2019 **Laboratory student**, *Università di Roma La Sapienza, Department of Physics*.  
I worked in a research group in nonlinear optics. The aim was to familiarize with the phenomenology of soliton formation. Supervisor: Prof. Eugenio Del Re.
- September 2018 **Summer School student**, *Institut Laue-Langevin - ESRF, 71 Avenue des Martyrs, 38000 Grenoble (France)*.  
I worked into an experiment inside a team of ILL scientists. My personal task was to design and code a program aimed at optimizing the calibration process of an instrument (D19) used for neutron scattering in crystals. My program doubled the speed of calibration. Supervisor: Laura Canadillas Delgado.

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## Awards

- February 2020-Present **Percorso di eccellenza (Excellence Programme) in Physics: Master's degree level**, *Università di Roma La Sapienza, Department of Physics*.  
One course attended:  
  - Standard and anomalous diffusion
- November 2015–Present **Awarded *Studiante meritevole*, a merit based scholarship of full tuition fees**, *Università di Roma La Sapienza, Department of Physics*.
- March 2017-July 2018 **Percorso di eccellenza (Excellence Programme) in Physics: Bachelor's degree level**, *Università di Roma La Sapienza, Department of Physics*.  
Four courses attended:  
  - Real and Functional Analysis
  - Classical Field Theory
  - Riemann Geometry and Algebraic Topology
  - Group Theory and Applications to Particle Physics

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## Digital skills

- Deep knowledge of C, C++, Python.
- Some introductory knowledge of Machine Learning.
- Ability to write a TeX document using LaTeX.
- Ability to use the most common programs related to experimental physics (Microsoft Excel, GnuPlot, etc.).

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## Languages

- Italian Native  
English Advanced Level (C1)

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## Personal interests

Electric guitar, improvisation theatre, singing and Ninjutsu.