

# Mariano Flammini

## Personal information

Birth  
Gender  
Address

Telephone  
E-mail

## Professional

2015- **PhD Student in Physics** at Physics Department of Sapienza University of Rome  
Supervisor Eugenio Del Re  
Topics Non-linear optics, Photonics, Condensed matter physics.

## Education

26/01/2015 **Master Thesis in Physics**, *Sapienza University of Rome*, 110/110 *magna cum laude*.  
2 years  
22/11/2012 **Bachelor Thesis in Physics**, *Sapienza University of Rome*, 110/110 *magna cum laude*.  
3 years  
2009 **High School Diploma**, *Liceo Scientifico Carlo Jucci, Rieti*, 100/100.  
5 years

## Master Thesis in Physics

Title *Solitoni spaziali in reticoli nonlineari*  
Supervisor Prof. Eugenio Del Re  
Description Experimental and numerical study of spatial optical photorefractive soliton in a microstructured KLTN crystal.

## Bachelor Thesis in Physics

Title *Crittografia quantistica*  
Supervisor Prof. Fabio Sciarrino  
Description Theoretical study of quantum cryptography and, in particular, the BB84 protocol.

## Awards

- 2013 Wins, after merit-based selection, a "Borsa di collaborazione", a cash award for his cooperation with the Physics Department of Sapienza University of Rome;
- 2012 Wins, after merit-based selection, a "Borsa di collaborazione", a cash award for his cooperation with the Physics Department of Sapienza University of Rome;
- 2011-2012 Wins "Percorso d'eccellenza", a merit-based selection that allow to follow extra lectures and to have partial refund of university taxes.

## Experiences

- 2016 Participated, as student, at School of Photonics 2016-Plasmonics and Nano-Optics, July 10-14, Cortona (AR), Italy;
- 2015-2016 Laboratory classes assistant, during "THESMA project", for master students of Faculty of Latin and Greek, Italian, and Scenic-Musical Studies, Faculty of Literature at Sapienza University of Rome;
- 2013-2015 Elected member, as a student representative, at the "Giunta di dipartimento" (the executive branch of "Physics Department Council");
- 2013-2015 Elected member, as a student representative, at the "Physics Department Council";
- 2013 Laboratory classes assistant, during "Borsa di collaborazione", for electromagnetism course and thermodynamic course of the 2nd year of the Bachelor's degree in Physics;
- 2012 Library assistant, during "Borsa di collaborazione", at Physics Department Library.

## Publications

- 2016 M. Flammini, C. Bonsi, C. Ciano, V. Giliberti, E. Pontecorvo, P. Italia, E. DelRe and M. Ortolani, "Confocal Terahertz Imaging of Ancient Manuscripts" accepted for publication on J Infrared Milli Terahz Waves;
- 2015 D. Pierangeli, M. Flammini, F. Di Mei, J. Parravicini, C. E. M. de Oliveira, A. J. Agranat and E. DelRe, "Continuous solitons in a lattice nonlinearity" Phys. Rev. Lett. **114**(20) 203901.

## Languages

Italian Mother Tongue  
English Good

## Computer skills

Operating System Windows, Linux;  
Programming Languages C, Matlab, Latex.

*Mariano Scuri*