

Mauro Valeri

Education

- 2017–Present **Ph.D. student in Quantum Optics and Quantum Information**, *XXXIII cycle*, Sapienza Università di Roma, Quantum Information Lab Group, Rome, Italy.
Title: *Integrated Photonics for Quantum Metrology and Cryptography*
Supervisor: Prof. Fabio Sciarrino
- 2014–2017 **Master degree in Condensed Matter Physics**, Sapienza Università di Roma, Rome, Italy, 110/110 cum laude.
Title: *Sorgenti di coppie di fotoni entangled alla lunghezza d'onda telecom*
Supervisor: Prof. Fabio Sciarrino
- 2010–2013 **Bachelor degree in Physics**, Sapienza Università di Roma, Rome, Italy, 110/110 cum laude.
Title: *Utilizzo di impulsi ultracorti per scattering Raman stimolato*
Supervisor: Prof. Tullio Scopigno
- 2005–2010 **High School Diploma**, Liceo Scientifico Vito Volterra, Ciampino (RM), Italy.
100/100

Summer Schools

- July 2018 International School of Physics "Enrico Fermi" Course 204: Nanoscale Quantum Optics in Varenna, Italy
- May 2018 Secure Quantum Communications School (QCALL) in Baiona, Spain

Other Courses

- May 2020 Coursera online course: Machine Learning, Stanford University
<https://coursera.org/share/5aa7ccc93a8606374100719b4bae1c35>

Awards

- 2017-2020 *Borsa di Dottorato* offered by Sapienza Università di Roma
- 2010-2013 *Percorso di Eccellenza*, lectures addressed to outstanding bachelor students of Physics Department
- 2010-2012 University taxes exoneration *Studente Meritevole*

Scientific Conference/Workshop Contributes

Oral Presentations

- February 2020 Oral presentation at the virtual conference IMEKO TC-4 2020, Palermo, Italy.
Title: *Quantum two-phase estimation inside a photonic integrated device*
- February 2019 Oral presentation at the Italian Conference on CyberSecurity (ITASEC19) in Pisa, Italy.
Title: *Integrated photonics devices for quantum cryptography*

Posters

- September 2019 Poster at Causality in the quantum world workshop in Anacapri, Italy.
Title: *Integrated multiarm interferometers for quantum multiphase estimation protocols*
- April 2019 Poster at Quantum Information and Measurement (QIM) V conference in Rome, Italy.
Title: *Integrated source of entangled photon pair at telecom wavelength*

Outreach activities

- 2018-Present **Member of RAYS (SPIE and OSA La Sapienza Student Chapter)**, RAYS (Rome Association of Young Scientist) is a group of PhD students and master students in physics devoted to scientific divulgation and outreach activities. The chapter is supported by the american societies SPIE (Society of Photo-Optical Instrumentation Engineers) and OSA (The Optical Society).
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Computer skills

- Operating systems Linux, Microsoft Windows (major experience)
Macintosh (minor experience)
- Programming languages C, PYTHON, Mathematica (major experience)
Matlab, Octave, LabView (minor experience)
- Graphics Inkscape, AutoCAD (minor experience)
- Other softwares \LaTeX , Microsoft Office package (major experience)

Languages

- Italian **Mothertongue**
English **Intermediate**