



Salvatore Macis

WORK EXPERIENCE

Synopsis

I am an experimental condensed matter physicist working on photonics, plasmonic, and spectroscopy, with expertise in a broad spectral range from Terahertz (THz) up to X-Ray both with frequency domain, time domain, and pump-probe techniques.

During my PhD I focused my studies on sample growth and characterization, developing a PVD evaporation chamber, and characterizing the structural, morphological, electrical, and chemical properties of MoO₃ films with different techniques. The characterization process was mainly performed via spectroscopy techniques, such as X-Ray Absorption spectroscopy, Auger, IR, and Raman Spectroscopy.

After the PhD, I moved to Sapienza University and my activity has been mainly focused on the THz-UV range photonics, plasmonic, and broadband optical spectroscopy on conventional and laser-based sources. Different projects and collaborations allowed me to study the optical response in this wide range of frequencies of numerous systems, from Quantum exotic materials to photonic and phononic metamaterials; from volatile organic compounds to Transition Metal Oxides for sensing.

During my research activity I worked in high-level international structures such as synchrotron radiation laboratories (ESRF, Diamond, Elettra) for IR and X-ray absorption measures, and Free Electron Laser facility of ISIR (@Osaka university) with high-intensity THz radiation. I'm also working on a new INFN project called SABINA at LNF, concerning the development of a beamline at SPARC covering both the THz and IR spectral region, with sub-ps pulses and fully polarized (from linear to circular) radiation.

Post-Doc Position

University of La Sapienza [01/05/2022 – Current]

City: Rome

Country: Italy

Post-Doc Position on the project "*Phononic metamaterials*"

Post-Doc Position

University of La Sapienza [01/05/2021 – 30/04/2022]

City: Rome

Country: Italy

Post-Doc Position on the project "*Proprietà Elettromagnetiche lineari e non lineari di materiali topologici Weyl e Dirac*"

Post-Doc Position

University of La Sapienza [29/02/2020 – 25/04/2021]

City: Rome

Country: Italy

Post-Doc Position on the project "*Transition Metal Oxides for Technological Applications*"

Research scholarship

University of La Sapienza [30/06/2019 – 30/12/2020]

City: Rome

Country: Italy

Research scholarship on the project "Spettroscopia THz lineare, non lineare e risolta in tempo con sorgenti di radiazione di ultima generazione"

EDUCATION AND TRAINING

PhD in Physics, Eccellente qualità con Lode

Tor Vergata University [31/10/2015 – 11/03/2019]

Address: Via della Ricerca Scientifica 1, 00133 Rome (Italy)

Master Degree in Physics, 110/110

Roma Tre University [11/10/2013 – 20/10/2015]

Address: Via della Vasca Navale 84, 00146 Rome (Italy)

Bachelor Degree in Physics, 110/110 e Lode

Roma Tre University [30/09/2010 – 10/10/2013]

Address: Via della Vasca Navale 84, 00146 Rome (Italy)

Scientific High School Diploma

Liceo Scientifico Cavour [2004 – 2010]

Address: Via delle Carine 1, 00184 Rome (Italy)

PUBLICATIONS

1. Generation of terahertz vector beam bearing tailored topological charge

[2022]

S. Mou, A. D'Arco, L. Tomarchio, S. Macis, A. Curcio, S. Lupi, M. Petrarca, *APL Photonics*, submitted September 2022

2. Tunable chemical reactivity and selectivity of WO₃/TiO₂ heterojunction for gas sensing applications

[2022]

V. Galstyan, N. Poli, V. Golovanov, A. D'Arco, S. Macis, S. Lupi, E. Bolli, S. Kaciulis, A. Mezzi, E. Comini, *Journal of Materials Chemistry A*, submitted September 2022

3. Evidence of giant refraction in ferroelectric supercrystals from broadband optical spectroscopy

[2022]

L. Falsi, S. Macis, Y. Gelkop, L. Tartara, E. Bonaventura, P. Di Pietro, A. Perucchi, Y. Garcia, G. Perepelitsa, E. Del Re, A. J. Agranat, and S. Lupi, *Physical Review Letter*, submitted September 2022

4. Electrodynamics of MnBi₂Te₄ Intrinsic Magnetic Topological Insulator

[2022]

L. Tomarchio, L. Mosesso, S. Macis, A. Grilli, M. Romani, M. Cestelli Guidi, K. Zhu, X. Feng, M. Zacchigna, M. Petrarca, K. He, S. Lupi *NPG Asia Materials*, Accepted September 2022

5. Terahertz Resonators based on YBa₂Cu₃O₇ High-T_c Superconductor

[2022]

S. Macis, M.C. Paolozzi, A. D'Arco, L. Tomarchio, A. Di Gaspare, S. Lupi, *Applied Science MDPI*, Accepted for publication, September 2022. (*Preprints* **2022**, 2022070431)

6. Optical Properties of Superconducting Nd_{0.8}Sr_{0.2}NiO₂ Nickelate

[2022]

R. Cervasio, L. Tomarchio, M. Verseils, J. Brubach, S. Macis, S. Zeng, A. Ariando, P. Roy, S. Lupi, *Nature Communication*, Under Review September 2022

7. High Sensitivity Monitoring of VOCs in Air through FTIR Spectroscopy Using a Multipass Gas Cell Setup

[2022]

A. D'Arco, T. Mancini, M.C. Paolozzi, S. Macis, L. Mosesso, A. Marcelli, M. Petrarca, F. Radica, G. Tranfo, S. Lupi, G. Della Ventura, *Sensors*, **22**(15), **5624**, August 2022

8. Metallic Interface Induced Ionic Redistribution within Amorphous MoO₃ Film

[2022]

F. Paparoni, Y. Mijiti, S. Kazim, M. Minicucci, N. Pinto, A. D'Elia, S. Macis, C. Kim, S. Huh, R. Gunnella, A. Marcelli, A. DiCicco, S. J. Rezvani *Advanced Materials Interfaces*, **9**(23), **2200453**, August 2022

9. Infrared Plasmons in Ultrahigh Conductive PdCoO₂ Metallic Oxide

[2022]

S. Macis, L. Tomarchio, S. Tofani, F. Piccirilli, M. Zacchigna, V. Aglieri, A. Toma, G. Rimal, S. Oh and S. Lupi, *Communications Physics*, **5**(1), **1-6**, June 2022

10. Optical and thermal responses of silicene in Xene heterostructures

[2022]

E. Bonaventura, D. S. Dhungana, C. Martella, C. Grazianetti, S. Macis, S. Lupi, E. Bonera and A. Molle, *Nanoscale Horizons*, **7**, **924-930**, June 2022

11. PANI-Modified Ti-Doped CVD Diamond As Promising Conductive Platform to Mimic Bioelectricity Functions

[2021]

S. Politi, S. Battistoni, R. Carcione, L. Montaina, S. Macis, S. Lupi, E. Tamburri, *Advanced Materials Interfaces*, **8**(24), **2101401**, November 2021

12. Low Energy Electrodynamics of CrI₃ Layered Ferromagnet

[2021]

L. Tomarchio, S. Macis, L. Mosesso, A. Grilli, M. Cestelli Guidi, R. J. Cava and S. Lupi, *Scientific Reports*, **11**(1), 1-8, October 2021

13. Disordered Photonics Behavior from Terahertz to Ultraviolet of a 3-Dimensional Graphene Network

[2021]

L. Tomarchio, S. Macis, A. Grilli, M. Romani, M. Cestelli Guidi, K. Hu, S. Kukunuri, S. Jeong, A. Marcelli, Y. Ito, and S. Lupi, *Nature Asia*, **13**(1), **1-8**, October 2021

14. Structural anisotropy in three dimensional macroporous graphene: A polarized XANES investigation

[2021]

S.J. Rezvani, A. D'Elia, S. Macis, S. Nannarone, S. Lupi, F. Schütt, F. Rasch, R. Adelung, B. Lu, Z Zhang, L. Qu, X. Feng, A. Romani Vázquez, A. Marcelli, *Diamond and Related Materials*, **111**(1), **108171**, January 2021

15. A novel approach for green synthesis of WO₃ nanomaterials and their highly selective chemical sensing properties

[2020]

V. Galstyan, N. Poli, A. D'Arco, S. Macis, S. Lupi and E. Comini, *Journal of Materials Chemistry A*, **8**, 20373-20385, August 2020

16. Spatially Resolved Spectral Imaging by A THz-FEL

[2020]

A. Irizawa, M. Fujimoto, K. Kawase, R. Kato, H. Fujiwara, A. Higashiya, S. Macis, L. Tomarchio, S. Lupi, A. Marcelli and S. Suga, *Special Issue THz: Research Frontiers for New Sources, Imaging and Other Advanced Technologies, Condensed Matter*, **5(2)**, **38**, June 2020

17. Angular dependence of copper surface damage induced by an intense coherent THz radiation beam

[2020]

S. Macis, L. Tomarchio, S. Tofani, J. Rezvani, L. Faillace, S. Lupi, A. Irizawa and A. Marcelli, *Special Issue THz: Research Frontiers for New Sources, Imaging and Other Advanced Technologies, Condens. Matter*, **5(1)**, **16**, March 2020

18. Interplay among Work Function, electronic structure and stoichiometry in nanostructured vanadium oxides films

[2020]

A. D'Elia, C. Cepek, M. de Simone, S. Macis, B. Belec, M. Fanetti, P. Piseri, A. Marcelli, M. Coreno, *Physical Chemistry Chemical Physics*, **22**, 6282-6290, February 2020

19. Characterization of CdS sputtering deposition on Low Temperature Pulsed Electron Deposition Cu(In, Ga)Se₂ solar cells

[2020]

M. Miliucci, M. Lucci, I. Colantoni, F. De Matteis, F. Micciulla, A. Clozza, S. Macis, I. Davoli, *Thin Solid Films*, **697**, **1378** **33**, January 2020

20. Molybdenum Oxides Coatings for High Demanding Accelerator Components

[2019]

J. Scifo, A. Marcelli, B. Spataro, D. Hampai, S. Dabagov, S. Sarti, A. Di Trolio, R. Moscatelli, S. Macis, L. Faillace, *Instruments* **3** (4), **61** December 2019

21. Synchrotron radiation research and analysis of the particulate matter in deep ice cores: an overview of the technical challenges

[2019]

G. Cibin, A. Marcelli, V. Maggi, G. Baccolo, D. Hampai, P. E. Robbins, A. Liedl, C. Polese, A. D'Elia, S. Macis, A. Grilli, A. Raco, *Condensed matter*, **4**, **61**, June 2019

22. Structural Evolution of MoO₃ Thin Films Deposited on Copper Substrates upon Annealing: An X-ray Absorption Spectroscopy Study

[2019]

S. Macis, J. Rezvani, I. Davoli, G. Cibin, B. Spataro, J. Scifo, L. Faillace and A. Marcelli, *Condensed Matter*, **4(2)** **41**, April 2019

23. The Potential of EuPRAXIA@SPARC_LAB for Radiation Based Techniques

[2019]

A. Balerna, S. Bartocci, G. Batignani, A. Cianchi, E. Chiadroni, M. Coreno, A. Cricenti, S. Dabagov, A. Di Cicco, M. Faiferri, C. Ferrante, M. Ferrario, G. Fumero, L. Giannessi, R. Gunnella, J. José Leani, S. Lupi, S. Macis, R. Manca, A. Marcelli, C. Masciovecchio, M. Minicucci, S. Morante, E. Perfetto, M. Petrarca, F. Pusceddu, J. Rezvani, J. I. Robledo, G. Rossi, H. J. Sanchez, T. Scopigno, G. Stefanucci, F. Stellato, A. Trapananti and F. Villa, *Condensed Matter*, **4(1)**, **30**, April 2019

24. MoO₃ films grown on polycrystalline Cu: morphological, structural and electronic properties

[2019]

S. Macis, C. Aramo, C. Bonavolontà, G. Cibir, A. D'Elia, I. Davoli, M. De Lucia, M. Lucci, S. Lupi, M. Miliucci, A. Notargiacomo, C. Ottaviani, C. Quaresima, M. Scarselli, J. Scifo, B. Spataro, M. Valentino, P. De Padova and A. Marcelli, *Journal of Vacuum Science and Technology A*, **37**, **021513**, March 2019

25. Accurate Fe³⁺ / Fetot ratio from XAS spectra at the Fe K-edge

[2018]

F. Galdenzi, A. Marcelli, G. Della Ventura, G. Cibir, S. Macis, A. Marcelli, *Radiation Physics and Chemistry*, **175**, **10808**, December 2018

26. The Contribution of Synchrotron Light for the Characterization of Atmospheric Mineral Dust in Deep Ice Cores: Preliminary Results from the Talos Dome Ice Core (East Antarctica)

[2018]

G. Baccolo, G. Cibir, B. Delmonte, D. Hampai, A. Marcelli, E. Di Stefano, S. Macis and V. Maggi, *Condensed Matter*, **3(3)**, **25**, August 2018

27. Iron oxidation dynamics vs. temperature of synthetic potassic-ferro-richterite: A XANES investigation

[2018]

G. Della Ventura, F. Galdenzi, G. Cibir, R. Oberti, W. Xu, S. Macis and A. Marcelli, *Physical Chemistry Chemical Physics*, **20(33)**, **21764-21771** August 2018

28. Shungite Carbon as Unexpected Natural Source of Few-Layer Graphene Platelets in a Low Oxidation State

[2018]

E. Tamburri, R. Carcione, S. Politi, M. Angjellari, L. Lazzarini, L.E. Vanzetti, S. Macis, G. Pepponi and M.L. Terranova, *Inorganic Chemistry*, **57(14)**, **8487-8498**, July 2018

29. Microdrop deposition technique: preparation and characterization of diluted suspended particulate samples

[2018]

S. Macis, G. Cibir, V. Maggi, G. Baccolo, D. Hampai, B. Delmonte, A. D'Elia and A. Marcelli, *Condensed Matter*, **3(3)**, **21**, July 2018

30. Exploiting the Properties of Ti-Doped CVD-Grown Diamonds for the Assembling of Electrodes

[2017]

E. Tamburri, R. Carcione, F. Vitale, A. Valguarnera, S. Macis, M. Lucci, M.L. Terranova, *Advanced Materials Interfaces*, **4(18)**, **1700222**, May 2017

The Sabina Terahertz/Infrared Beamline at SPARC-Lab Facility

[2020]

S. Macis, M. Bellaveglia, M. Cestelli Guidi, E. Chiadroni, F. Di-Pace, A. Doria, A. Ghigo, L. Giannessi, A. Giribono, A. Petralia, V. Petrillo, L. Sabbatini, C. Vaccarezza and S. Lupi, 12th Int. Particle Accelerator Conf.(IPAC21), May 2021

FEL Design Elements of SABINA: A Free Electron Laser for THz-MIR Polarized Radiation Emission

[2020]

F. Dipace, E. Chiadroni, M. Ferrario, A. Ghigo, L. Giannessi, A. Giribono, L. Sabbatini, C. Vaccarezza, A. Doria, A. Petralia, V. Petrillo, S. Lupi, S. Macis, 12th Int. Particle Accelerator Conf.(IPAC21), May 2021

Imaging local strain spatial fluctuations in superconducting BaPb_{1-x}Bi_xO₃ by scanning micro-XANES

[2017]

R. Albertini, S. Macis, G. Campi, A. Marcelli, A. A. Ivanov, A. Menushenkov, J. Purans, P. Giraldo Gallo, T.H. Geballe, I.R. Fisher, A. Bianconi, QUANTUM COMPLEX MATTER Publisher: Superstripes Press ISBN: 9788866830900, August 2018

Deposition and characterization of MoO₃ films on copper to improve accelerating technologies

[2017]

S. Macis, A. Marcelli, QUANTUM COMPLEX MATTER Publisher: Superstripes Press ISBN: 9788866830900, August 2018

Identification of sources of iron in mineral dust (aerosol) from Western China, Arctic and East Antarctica regions by chemical speciation using X-ray absorption near-edge structure (XANES) spectroscopy, in: Aerosols in snow and ice

[2016]

Z. Du, C. Xiao, A. Marcelli, G. Cibir, G. Baccolo, S. Macis, W. Xu, A. Puri, V. Maggi, S. Liu, Y. Zhu, Markers of environmental pollution and climatic changes: European and Asian perspectives, Publisher: Superstripes Press, Rome, Italy, ISBN 9788866830771, September 2017

Mapping by scanning micro XANES (S μ XANES) of intrinsic spatial local inhomogeneity in superconducting BaPb_{1-x}Bi_xO₃

[2016]

R. Albertini, S. Macis, G. Campi, A. Ivanov, V. Ivanov, A. Marcelli and A. Bianconi, Superstripes, June 2017

Microdrop deposition technique: preparation and characterization of ultradiluted samples

[2015]

S. Macis, G. Cibir and A. Marcelli, Atomically Controlled Surfaces, Interfaces and Nanostructures, Publisher: Superstripes Press, Rome, Italy, ISBN: 9788866830597, October 2016

Microdrop deposition for ultra-diluted samples preparation

[2014]

S. Macis, G. Cibir and A. Marcelli, Nanoscale excitations in emergent materials; NEEM 2015, Publisher: Superstripes Press, Rome, Italy, ISBN: 9788866830450, November 2015

Oxidation processes of Fe- amphiboles at high temperature

[2014]

A. D'Elia, S. Macis, G. Cibin, G. Della Ventura and A. Marcelli, Nanoscale excitations in emergent materials; NEEM 2015, Publisher: Superstripes Press, Rome, Italy, ISBN: 9788866830450, November 2015

BIBLIOGRAPHIC INDICATORS

Google Scholar

[09/2022]

Citation n. 175

H index: 8

N. Articles 24

Scopus

[09/2022]

Citation n. 123

H index: 7

N. Articles 23

Impact Factor

Average Impact Factor 3.90

Total Impact Factor 89.63

ORAL CONTRIBUTIONS

Thin conducting MoO₃ films on copper for technological applications: a new route for improved RF devices

[13/02/2022 – 15/02/2022]

Symposium Quantum Materials for Quantum Technologies, QMQT, Frascati, Italy

Micro-XAS measures of the local structure changes in BaPb_{1-x}Bi_xO₃ as a function of temperature

[06/06/2021 – 08/06/2021]

QUANTUM COMPLEX MATTER 2021, Frascati-Rome, Italy

THz to UV transmission of 3D Graphene micro structures

[09/12/2019 – 10/12/2019]

Spectroscopy and Imaging with THz Radiation using Ultimate radiation Sources, Rome, Italy

THz to UV transmission of 3D Graphene micro structures

[11/10/2019 – 12/10/2019]

The 2nd Bilateral Workshop 3D Graphene, Hefei, China

Surface damage angular dependence of metallic systems by high gradient THz radiation

[16/06/2019 – 19/06/2019]

Photonics and Electromagnetic Research Symposium, PIERS 2019, Rome, Italy

Thin conducting MoO₃ films on copper. A new opportunity for technological applications

[17/06/2019 – 20/06/2019]

10th Young Researcher Meeting, Rome, Italy

Thin conducting MoO₃ films on copper for technological applications

[20/05/2019 – 24/05/2019]

54th Zakopane School of Physics, Zakopane, Poland

X-Ray characterization of thin conducting MoO₃ films on copper. A new opportunity for technological applications

[16/10/2018 – 18/10/2018]

High precision X-ray measurements, Frascati, Italy

Correlated disorder in BaPb_{1-x}Bi_xO₃ superconductor

[21/07/2018 – 26/07/2018]

X-ray Absorption Fine Structure, XAFS 2018, Kraków, Poland

POSTERS

The Sabina Terahertz/Infrared beamline at SPARC-Lab facility

IPAC 21, 25-28 May 2021, Campinas, SB, Brasil (Virtual Edition)

Thin and ultrathin conducting MoO₃ films on copper: a new route for improved RF devices

ICFDT5 2018 Conference 3-5 October 2018 INFN-LNF, Italy

High electric field breakdown on MoO₃-carbon nanotubes coating on copper for technological applications

Bilateral Workshop 3D Graphene, 1-2 October 2018 INFN-LNF & Sapienza University, Italy

Thin conductive MoO₃ films on copper technologies application: AES and XAS study of electronic and structural properties

XAFS 2018, 22–27 July 2018 Kraków, Poland

Micro-XAS measures of the local structure changes in BaPb_{1-x}Bi_xO₃ as a function of temperature

Int. Conference on Quantum Condensed Matter, QCM 2018, 11-15 June 2018, Frascati, Italy

Thin and ultrathin conducting MoO₃ films on copper for technological application: a XAS study of electronic and structural properties

QCM 2018, 11-15 June 2018 INFN-LNF, Italy

Micro-XAS measures of the local structure changes in BaPb_{1-x}Bi_xO₃ as a function of temperature

Int. Conference SUPERSTRIPES 2017, 4-10 June 2017, Ischia, Italy

Hybrid CIGS-TiO₂ thin film solar cells by sol gel method

FANO PRIZE 2016, 1 November 2016 CNR Headquarters, Rome, Italy

Local refractive index variation of FIB milled CVD diamond areas via Raman and IR micro-reflectivity

ACSIN 2016, 9-15 October 2016, Rome, Italy

Microdrop deposition technique: preparation and characterization of ultradiluted samples

ACSIN 2016, 9-15 October 2016, Rome, Italy

Oxidation processes of Fe-amphiboles at high temperature

NEEM 2015, 12-14 October 2015, Rome, Italy

Microdrop deposition for ultra-diluted samples preparation

NEEM 2015, 12-14 October 2015, Rome, Italy

WORKING EXPERIENCE ABROAD

Experiment, High electric field irradiations on MoO₃/Cu and MoO₃/Al samples

[04/2019]

Osaka University, ISIR THz FEL, Osaka, Japan.

Beamtime, RefLEXAFS study of MoO₃/Cu interface for modern accelerating devices

[09/2018]

ESRF Synchrotron, BM08 beamline, Grenoble, France.

Experiment, High electric field irradiations on MoO₃/Cu samples

[08/2018]

Osaka University, ISIR THz FEL, Osaka, Japan.

Experiment, High electric field irradiations on copper surfaces

[05/2018]

Osaka University, ISIR THz FEL, Osaka, Japan.

Beamtime, XRD studies of p-Terphenyl as a function of temperature

[06/2017]

ELETTRA Synchrotron, XRD1 beamline , Trieste, Italy.

Beamtime, Chemical activities of environmental pollutants in aerosols stored in snow and ice-core from the Western China and Arctic Atmosphere

[11/2016]

ESRF Synchrotron, BM08 beamline , Grenoble, France.

Beamtime, Probing local refractive index variation of FIB milled CVD diamond microareas via IR microreflectivity and KK transformation

[08/2016]

Diamond Synchrotron, B18 beamline, Harwell, Oxford, UK.

Beamtime, Local structure changes in BaPb_{1-x}Bi_xO₃ as a function of temperature correlated with CDW onset by dispersive XAS

[05/2016]

ESRF Synchrotron , Grenoble, France.

Beamtime, XAFS study of structural and magnetic effects induced by intercalation on Gr/Co/Ir systems

[03/2016]

ESRF Synchrotron, ID03 beamline, Grenoble, France.

Beamtime, XRF study of structural and magnetic effects induced by intercalation on Gr/Co/Ir systems

[02/2016]

ESRF Synchrotron ID03 beamline, Grenoble, France.

Training course, Multivariate IR Microspectroscopy Analysis Training Course

[10/2014]

Diamond Light Source Synchrotron, Oxfordshire, UK.

Research Thesis, Optimization of Microdrop setup and XRF measures

[06/2014 – 09/2014]

Diamond Synchrotron, B18 beamline, Harwell, Oxford, UK.

TEACHING

Assistant in Physics I, Tor Vergata Engineering faculty

[02/2019 – 06/2019]

Assistant in Physics, Tor Vergata Biology faculty

[02/2019 – 06/2019]

Assistant in Physics, Tor Vergata Biology faculty

[02/2018 – 06/2018]

Assistant in Experimental Physics 2, Tor Vergata Material Science faculty

[09/2017 – 01/2018]

Assistant in Physics, Tor Vergata Biology faculty

[02/2017 – 06/2017]

Assistant in Experimental Physics 1, Tor Vergata Material Science faculty

[09/2016 – 01/2017]

Assistant in Experimental Physics 2, Tor Vergata Material Science faculty

[09/2016 – 01/2017]

Assistant in Physics, Tor Vergata Biology faculty

[02/2016 – 06/2016]

Assistant in Experimental Physics 1, Tor Vergata Material Science faculty

[09/2015 – 01/2016]

Assistant in Data Analysis Laboratory, Roma Tre Biology faculty

[02/2014 – 06/2014]

HONOURS AND AWARDS

Research initiation grant

La Sapienza University [15/11/2021]

2K€ Research financing by the La Sapienza University "Progetti per Avvio alla Ricerca - Tipo 2" for the project "Thin films of Transition Metal Oxides for Technological Applications"

Scholarship

Roma Tre University [11/2013]

Three-months scholarship by the Roma Tre University awarded to support outstanding students during their thesis research abroad

Scholarship

Roma Tre University [10/2013]

Scholarship awarded by the Roma Tre University to support outstanding students during their first year of Master's Degree

Alte scuole Roma Tre

Roma Tre University [01/2013]

School of excellence, first-year participation

Scholarship

Roma Tre University [01/2012]

Scholarship awarded by the Roma Tre University to support outstanding students during their second year of Bachelor's Degree

OUTREACH

GRaffa project for public outreach of physics

[08/2021 – Current]

Science communicator and Project Treasurer of the "GRaffa una Giovane parentesi sulla fisica", project funded by Regione Lazio's Vitamina G call.

1-year funding for **25k€**.

Science communicator for Le Scie Fische Association

[08/2021 – Current]

Science communicator for Le Scie Fische Association events, as the talks and hands-on laboratories for young people and student

Science demonstrator Frascati Scienza Science Party

[09/2022]

Science demonstrator during the Frascati Scienza Science Party event

Science demonstrator Frascati Scienza Science Party

[09/2021]

Science demonstrator during the Frascati Scienza Science Party event

Science demonstrator Frascati Scienza Science Party

[09/2020]

Science demonstrator during the Frascati Scienza Science Party event

Science communicator LNF-Open Labs

[05/2019]

Science communicator and Staff of the LNF-OpenLabs event

Science communicator LNF-Open Labs

[05/2018]

Science communicator and Staff of the LNF-OpenLabs event

LANGUAGE SKILLS

Mother tongue(s): **Italian**

Other language(s):

English

LISTENING C2 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

DIGITAL SKILLS

My Digital Skills

MATLAB&Simulink / COMSOL Multi-Physics / Zemax OpticStudio / OriginPro 85 / labVIEW / MS office/Latex;
(Full proficiency, daily use)