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Valerio Voliani

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Center for Nanotechnology Innovation @NEST, Istituto Italiano di Tecnologia
P.zza San Silvestro, 12 – 56127 - Pisa (PI) -ITALY-



EDUCATION

Sep 2007 - Sep 2011: PhD in Molecular Biophysics – Scuola Normale Superiore (Pisa, Italy) – defended Apr 2012 - mark 70/70 *cum laude* – Thesis title: Metal nanoparticles for biomedical applications: engineered coatings for multifunctionalization and controlled release.

Oct 2004 – Oct 2006: MSc in Chemistry – Scuola Normale Superiore (Pisa, Italy) - mark 110/110 *cum laude* - Thesis title: Synthesis and photophysics of green fluorescent proteins' chromophores: a study on the photochromism.

Oct 2001 – Jul 2004: BSc in Molecular Chemistry – University of Pisa (Pisa, Italy)

RESEARCH AND PROFESSIONAL EXPERIENCE

Jun 2014 – to date: postdoc at Center for Nanotechnology Innovation @NEST, Fondazione Istituto Italiano di Tecnologia (Pisa, Italy). Research: design and application of biodegradable inorganic nano-architectures for dual chemo/radio-therapy, selective endogenous-triggered drug delivery, and catalysis.

May 2013 – May 2014: postdoc at NEST - Scuola Normale Superiore (Pisa, Italy). Research: design of specific SERS nanoprobe for recognizing tumoral exosomes in biological fluids and development of biosensors and analyte-enrichment modules based on 2D materials.

May 2012 – May 2013: postdoc at ICMOL - University of Valencia (Valencia, Spain). Research: design and development of multifunctional coatings for up-conversion nanocrystals. Synthesis of up-conversion nanocrystal/gold nanosphere hybrid systems for delivery and release of cargos in living cells and organisms.

Feb 2012 – May 2012: research technician at ICMOL - University of Valencia (Valencia, Spain)

Sep 2011 – Feb 2012: research fellow at NEST - Scuola Normale Superiore (Pisa, Italy). Research: engineering of modular systems based on organic-coated gold nanostructures designed for exogenous controlled photo-release by non-linear processes of (bio)molecular payloads and drugs.

Nov 2008 – Dec 2008: visiting student at ICN2 (Barcelona, Spain)

Nov 2007 – Dec 2007: visiting student at NNL (Lecce, Italy)

Oct 2006 – Sep 2007: research fellow at NEST - Scuola Normale Superiore (Pisa, Italy). Research: synthesis and photo-physical studies on FP chromophores to shed light on the optical processes associated with the photochromic behaviour of the Green Fluorescent Proteins (GFPs).

Jun 2006 – Oct 2006: undergraduate research fellow at CNR (Pisa, Italy)

LANGUAGES

	conversation	writing	listening
Italian		<i>native</i>	
English	<i>excellent</i>	<i>excellent</i>	<i>excellent</i>
Spanish	<i>good</i>	<i>elementary</i>	<i>good</i>
French	<i>school</i>	<i>elementary</i>	<i>school</i>
Chinese	<i>elementary</i>	<i>elementary</i>	<i>elementary</i>

HONORS – ACHIEVEMENTS - AWARDS

2016: honored by the International Association of Advanced Materials (IAAM Scientist medal) for the year 2016 due to the notable and outstanding contribution in the field of "Advanced Materials Science and Technology"

2016: front cover of "Particles and Particles Systems Characterization" (V. Voliani et al., *PPSC*, 2016, **33**, 818)

2016: two nanoart images (Loto and Rose) selected by Carnegie Mellon University to be sent to the moon in the Moon Museum disk inside the Moon Arts project, funded by Google Lunar XPRIZE.

2015: cover of "Chemical Communications" (Voliani et al., *Chem. Comm.*, 2015, **51**, 9939)

2013: cover of "Journal of Materials Chemistry B" (Voliani et al., *J. Mat. Chem. B*, 2013, **1**, 4225)

2012: Winner of the national award "Premio NEST@NEST 2011" for the best published work on experimental nanoscience of the year 2010/2011 (Voliani et al., *Small*, 2011, **7**, 3271)

2012: First prize in the category "micro" at "FotCiencia10" organized by Spanish FECYT and CSIC for the image "Grafeno post-impresionista"

2011: frontispiece of "Small" (Voliani et al., *Small*, 2011, **7**, 3271)

2007: Professional qualification for chemical jobs - University of Salerno (Salerno, Italy) - mark 120/120

PUBLICATIONS & PATENTS

2017

1) *Peptide-based stealth nanoparticles for targeted and pH-triggered delivery*; Alessandro Ranalli, Melissa Santi, Luigi Capriotti, Valerio Voliani, David Porciani, Fabio Beltram, and Giovanni Signore; *Bioconjugate Chemistry*, 2017, DOI: 10.1021/acs.bioconjchem.6b00701

2) *Enhanced photoacoustic signal of passion fruit-like nano-architectures in biological environment*; Cinzia Avigo, Domenico Cassano, Claudia Kusmic, Valerio Voliani, and Luca Menichetti; submitted

3) *Passion fruit-like nano-architectures: a generalized synthesis route*; Domenico Cassano, Jeremy David, Stefano Luin, and Valerio Voliani; submitted

4) *Increasing the metal loading in passion fruit-like nano-architectures*; Rosa D'Apice, and Valerio Voliani; submitted

2016

1) *Biodegradable passion fruit-like nano-architectures as carriers for cisplatin prodrug*; Domenico Cassano, Melissa Santi, Valentina Cappello, Stefano Luin, Giovanni Signore, and Valerio Voliani; *Particle and Particle Systems Characterization*, 2016, **33** (11), 818-824, DOI: 10.1002/ppsc.201600175

2) *Hollow nanoparticles having a modulable metal core*; Valerio Voliani, and Vincenzo Piazza; *International Patent WO2016139591 (PCT/IB2016/051168)*

3) *Scalable synthesis of WS₂ on graphene and h-BN: an all-2D platform for light-matter transduction*; Antonio Rossi, Holger Büch, Carmine Di Rienzo, Vaidotas Miseikis, Domenica Convertino, Ameer Al-Temimy, Valerio Voliani, Mauro Gemmi, Vincenzo Piazza and Camilla Coletti; *2D Materials*, 2016, **3**, 031013, doi: 10.1088/2053-1583/3/3/031013

4) *Biodegradable nano-architectures containing gold nanoparticles arrays*; Domenico Cassano, Diego Rota Martir, Giovanni Signore, Cinzia Avigo, Luca Menichetti, Vincenzo Piazza, and Valerio Voliani; *MRS Advances*, 2016, June 2016, 1-7, DOI: 10.1557/adv.2016.454.

5) *Processo per la preparazione di nanoparticelle cave con un core metallico (Process for the preparation of hollow nanoparticles having a metal core)*; Valerio Voliani; *Italian Patent 102016000049532*

6) *Passion fruit-like nano-architectures as biodegradable inorganic theranostics to prevent accumulation in excretory system organs*; Domenico Cassano, Melissa Santi, Valentina Cappello, Giovanni Signore and Valerio Voliani; *AAMC Proceedings*, 2016, ISBN/ISSN: 978-91-88252-03-6, doi: 10.5185/aamc.2016

7) *Rational Design of a Transferrin-Binding Peptide Sequence Tailored to Targeted Nanoparticle Internalization*; Melissa Santi, Giuseppe Maccari, Paolo Mereghetti, Valerio Voliani, Silvia Rocchiccioli, Nadia Ucciferri, Stefano Luin, and Giovanni Signore; *Bioconjugate Chemistry*, 2016, DOI: 10.1021/acs.bioconjchem.6b00611

2015

1) *Biodegradable hollow silica nanospheres containing gold nanoparticle arrays*; Domenico Cassano, Diego Rota Martir, Giovanni Signore, Vincenzo Piazza, and Valerio Voliani; *Chemical Communications*, 2015, **51**, 9939-9941, DOI: 10.1039/C5CC02771C

2) *Non-linear optical response by functionalized gold nanospheres: identifying design principles to maximize the molecular photo-release*; Luca Bergamini, Valerio Voliani, Riccardo Nifosi, Valentina Cappello, and Stefano Corni; *Nanoscale*, 2015, **7**, 13345-13357, DOI: 10.1039/C5NR03037D

3) *Nanoparticelle cave aventi un core metallico modulabile (Hollow nanoparticles having a metal modular core)*; Valerio Voliani, and Vincenzo Piazza; *Italian Patent Application FI2015A000058*

2014

1) *Biosensore grafenico per l'analisi di esosomi in fluidi biologici, suoi procedimenti di preparazione e relativi usi (Device with electronic or optical readout for the recognition of Exosomes from human fluids - EGVC test)*; Valerio Voliani, Camilla Coletti, Giovanni Signore, Stefano Luin, Vincenzo Piazza, and Fabio Beltram; *Italian Patent Application TO2014A001005 (PT140236)*

2) *Magnetic catechin-dextran conjugate as targeted therapeutic for pancreatic tumour cells*; Orazio Vittorio, Valerio Voliani, Paolo Faraci, Biswajit Karmakar, Francesca Iemma, Silke Hampel, Maria Kavallaris, and Giuseppe Cirillo; *Journal of Drug Targeting*, 2014, **22** (5), 408-415, DOI: 10.3109/1061186X.2013.878941

3) *NIR excitation of upconversion nanohybrids containing a surface grafted Bodipy induces oxygen mediated cancer cell death*; Maria Gonzalez-Bejar, Marta Liras, Laura Frances-Soriano, Valerio Voliani, Jose Garcia-Verdugo, Vicente Herranz-Pérez, Maria Duran-Moreno, Emilio Alarcon, Juan Scaiano, and Julia Pérez-Prieto; *Journal of Materials Chemistry B*, 2014, **2**, 4554-4563, DOI: 10.1039/C4TB00340C

4) *Texture and phase recognition analysis of β -NaYF₄ nanocrystals*; Valerio Voliani, Mauro Gemmi, Laura Frances-Soriano, Maria Gonzales-Bejar, and Julia Pérez-Prieto; *J. Phys. Chem. C*, 2014, **118** (21), 11404-11408, DOI: 10.1021/jp5025872

5) *Tubeless biochip for chemical stimulation of cells in closed-bioreactors: anti-cancer activity of the catechin-dextran conjugate*; Sandro Meucci, Marco Travagliati, Orazio Vittorio, Giuseppe Cirillo, Luca Masini, Valerio Voliani, Nevio Picci, Fabio Beltram, Alessandro Tredicucci, and Marco Cecchini; *RSC Advances*, 2014, **4**, 35017-35026, DOI: 10.1039/C4RA05496B

6) *Synergistic photo-release of drugs by non-linear excitation*; Valerio Voliani, Giovanni Signore, Orazio Vittorio, Paolo Faraci, Stefano Luin, Julia Pérez-Prieto and Fabio Beltram; *MRS Spring Meeting proceedings*, 2014, 1688, DOI: 10.1557/opl.2014.518

2013

1) *Cancer phototherapy in living cells by multiphoton release of doxorubicin from gold nanospheres*; Valerio Voliani, Giovanni Signore, Orazio Vittorio, Paolo Faraci, Stefano Luin, Julia Pérez-Prieto and Fabio Beltram; *Journal of Materials Chemistry B*, 2013, **1**, 4225-4230, DOI: 10.1039/C3TB20798F

2) *Orthogonal Functionalisation of Upconverting NaYF₄ Nanocrystals*; Valerio Voliani, María González-Béjar, Vicente Herranz-Pérez, Maria Duran-Moreno, Giovanni Signore, Jose M. Garcia-Verdugo, and Julia Pérez-Prieto; *Chemistry A European Journal*, 2013, **40**, 13538-13546, DOI: 10.1002/chem.201301353

3) *Vector for the release of an active agent which is photocleavable by irradiation in the visible*; Valerio Voliani, Stefano Luin, Fernanda Ricci, Riccardo Nifosí, Giovanni Signore, and Fabio Beltram; *International Patent WO2013001451*

2012

1) *Peptidic coating for gold nanospheres multifunctionalizable with photostable and photolabile moieties*; Valerio Voliani, Fernanda Ricci, Stefano Luin, and Fabio Beltram; *Journal of Materials Chemistry*, 2012, **22**, 14487-14493, DOI: 10.1039/C2JM31782F

2) *Smart delivery and controlled drug release with gold nanoparticles: new frontiers in nanomedicine*; Valerio Voliani, Giovanni Signore, Riccardo Nifosí, Fernanda Ricci, Stefano Luin, and Fabio Beltram; *Recent Patents on Nanomedicine*, 2012, **2** (1), 34-44, DOI: 10.2174/1877912311202010034

3) *Purification processes for nanoparticles: centrifugation vs. filtration*; Valerio Voliani; *EPA newsletter*, 2012, **92**, 43

2011

1) *Multiphoton molecular photorelease in click-chemistry functionalized gold nanoparticles*; Valerio Voliani, Fernanda Ricci, Giovanni Signore, Riccardo Nifosí, Stefano Luin, and Fabio Beltram; *Small*, 2011, **7**, 3271-3275, DOI: 10.1002/smll.201101753

2) *Vettore per il rilascio di un agente attivo, fotoscindibile per irraggiamento nel visibile (Carrier for the photorelease of active agents by visible irradiation)*; Valerio Voliani, Stefano Luin, Fernanda Ricci, Riccardo Nifosí, Giovanni Signore, and Fabio Beltram; *Italian Application Patent TO2011A000561*

3) *Cis-trans photoisomerization properties of GFP chromophore analogs*; Gerardo Abbandonato, Giovanni Signore, Riccardo Nifosí, Valerio Voliani, Ranieri Bizzarri, and Fabio Beltram; *Eur Biophys J.*, 2011, **40**, 1205-1214, DOI: 10.1007/s00249-011-0742-z

2010

1) *Single-Step Bifunctional Coating for Selectively Conjugable NanoParticles*; Valerio Voliani, Stefano Luin, Fernanda Ricci, and Fabio Beltram; *Nanoscale*, 2010, **2**, 2783-2789, DOI: 10.1039/c0nr00350f

2) *Single step coating and bifunctionalization of gold nanoparticles*; Valerio Voliani, Stefano Luin, and Fabio Beltram; *Biophysical Journal*, **98** (3), 757a-758a

2009

1) *Raman study of chromophore states in photochromic fluorescent proteins*; Stefano Luin, Valerio Voliani, Giacomo Lanza, Ranieri Bizzarri, Riccardo Nifosì, Pietro Amat, Valentina Tozzini, Michela Serresi, and Fabio Beltram; *J. Am. Chem. Soc.*, **131** (1), 96-103, DOI: 10.1021/ja804504b

2008

1) *Cis-trans photoisomerization of fluorescent-protein chromophores*; Valerio Voliani, Ranieri Bizzarri, Riccardo Nifosì, Stefania Abbruzzetti, Elena Grandi, Cristiano Viappiani, and Fabio Beltram; *J. Phys. Chem. B*, **112**, 10714-10722, DOI: 10.1021/jp802419h

BOOKS – CHAPTERS – SPECIAL ISSUES

2017

1) *Nanomaterials for medicine: escaping from excretory system organs*; Special issue in Journal of Nanomaterials. Lead guest editor: Valerio Voliani. Guest editors: Laura Fabris, and Orazio Vittorio.

2) *Clearable Nanomaterials*; Domenico Cassano and Valerio Voliani, Wiley Scrivener. Book for the series “Advances in Nanotechnology and Applications”. Expected: end 2017.

2015

1) *Coating strategies for gold and lanthanides nanostructures with protocols*; Valerio Voliani, Nova Science Publishers, Ltd. (New York – USA). Chapter of “Comprehensive guide for nanocoatings technology”, Vol 4: Application and Commercialization. ISBN: 978-1-63482-648-8

2013

1) *Recent Advances in Drug Delivery Research*; Editor: Valerio Voliani, Nova Science Publishers, Ltd. (New York – USA). ISBN: 978-1-62948-228-6

2) *Fluorescent probes based on upconverting lanthanide nanostructures*; Valerio Voliani and Julia Pérez-Prieto, Nova Science Publishers, Ltd. (New York – USA). Chapter of “Fluorophores: Characterization, Synthesis and Applications”. ISBN: 978-1-62808-268-5 and 978-1-62808-269-2

3) *Update on Gold Nanoparticles: From Cathedral Windows to Nanomedicine*; Valerio Voliani, Smithers Rapra Publishing. ISBN: 9781847356437, Pages: 148

ORAL PRESENTATIONS

2017

1) Nano USA 2017, Chicago (USA), October 4th-6th - Organizing Committee Member

2) European Advanced Materials Congress (EAMC-2017), Stockholm (Sweden), August 22th-24th – Invited talk: From biological to catalysis applications of biodegradable inorganic nano-architectures

3) National Institute for Materials Science (NIMS), Tsukuba (Japan), June, 5th – Invited talk: Inorganic nanomaterials for theranostics, issues and perspectives

4) International Conference on Nanomaterials and Nanotechnology (ICNANO-2017), Allahabad (India), March, 1st-3rd – Invited talk: Passion fruit-like nano-architectures: synthesis and applications.

2016

1) American Advanced Materials Congress 2016, Miami (USA), December, 4th-9th – Invited talk: Passion fruit-like nano-architectures as biodegradable inorganic theranostics to prevent accumulation in excretory system organs. Co-chair for the session “Hightech Materials and Technology”.

2) Cimtec 2016; 5th International Conference "Smart and Multifunctional Materials, Structures and Systems", June 5th-9th, Perugia (Italy): *Biodegradable inorganic nano-architectures to avoid accumulation in excretory system organs*

3) 2016 MRS Spring Meeting & Exhibit; March 28th-April 1st, 2016; Phoenix, Arizona (USA): *Biodegradable inorganic nano-architectures to avoid accumulation in excretory system organs*

2015

1) Quimicuba 2015, 9th Congress of chemical sciences, technology, and innovation, La Havana (Cuba), October, 13th-16th – Invited talk: Beyond non-linear photorelease of drugs from gold nanospheres

2) International Conference in Chemistry, Smt CHM College, Ulhasnagar, Mumbai (India); January, 12th-13th – Invited talk: Nanoparticles: magic bullets for personal therapy, or not?

3) International Conference on Chemical, Material and BioSciences for Sustainable Development (ICCMBSD-2015), Walchand College of Arts and Science and Monad Nanotech Pvt. Ltd., Solapur (India); January, 8th-10th – Invited talk: Synergistic photo-controlled release of drugs from gold nanospheres

4) International Conference on Nanomaterials for Sustainable Green Technology (ICNSGT-2015), K.V. Pendharkar College, Dombivli (India); January, 5th-6th – Member of the International Advisory Committee

2014

1) 5th International NanoMedicine Conference at Sydney's Coogee Beach, Sydney (AUS); June, 30th-July, 2nd – Invited talk: Non-linear photo-controlled intracellular release of doxorubicin from gold nanospheres

2013

1) Stopford building, School of Biomedicine, University of Manchester, Manchester (UK); November, 21st – Invited talk: From Cancer Phototherapy to SERS Nanoprobes

2) Institute for Molecular Science (ICMol), University of Valencia, Valencia (Spain); May, 14th – Invited talk: Hybrid nanomaterials for NIR-triggered phototherapy

2012

1) WoMeN 2012 “Workshop on nanoMedicine and Nanobiosystems”; September, 6th-8th; Lecce (Italy): *Click-multifunctional gold nanospheres: a synergistic tool for controlled release*

2) TechConnect World 2012; June, 18th-21st; Santa Clara, California (USA) – Invited talk: Multifunctionalized gold nanoparticles for controlled drug-release by non-linear excitation

2011

1) HYEX 2011 “International Workshop on Hybrid Excitations in Nano-Materials”; December, 18th-20th; Modena (Italy): *Multifunctionalized Gold Nanoparticles for Smart Intracellular Delivery by non-linear Excitation*

2) Institute for Molecular Science (ICMol), University of Valencia, Valencia (Spain); December 7th – Invited talk: Multifunctionalized Gold Nanospheres for Smart Intracellular Multiphoton Release

2010

1) Biophysical Society “54th Annual Meeting & 18th International Biophysics Congress”; February, 18th-24th; San Francisco, California (USA): *Single step coating and bifunctionalization of gold nanoparticles*

POSTER PRESENTATIONS

2014

1) 2014 MRS Spring Meeting & Exhibit; April 21-25, 2014; San Francisco, California (USA): *Synergistic photo-release of drugs by non-linear excitation*

2012

1) Gordon Research Conference “Noble Metal Nanoparticles”; June 17-22, 2012; Mount Holyoke College, South Hadley, MA (USA): *Gold Nanospheres for Controlled Drug-Release by non-linear Excitation*

2010

1) Gordon Research Conference “Noble Metal Nanoparticles; Preparation, Modeling and Applications”; June 20-25, 2010; Mount Holyoke College, South Hadley, MA (USA): *Single-Step Bifunctional Coating for Selectively Conjugable NanoParticles*

2008

1) Biophysical Society “52nd Annual Meeting & 16th International Biophysics Congress”; February 2-6, 2008; Long Beach, California (USA): *Photophysics of cis-trans isomerization in synthetic GFP chromophores*

2007

1) 10th Conference on Methods and Applications of Fluorescence: Spectroscopy, Imaging and Probes (MAF 10); September 9-12, 2007; Salzburg, Austria: *Photocromic green and blue fluorescent protein mutants: a Raman study of the chromophore states*

2) Biophysical Society “51st Annual Meeting”; March 3-7, 2007; Baltimore, Maryland (USA): *Thermodynamic and kinetic characterization of protonation exchanges in GFPs: a way to mutants with tailored optical properties*

Poster presentation by students supervised:

1. D. Cassano, M. Santi, V. Cappello, S. Luin, G. Signore, and **V. Voliani**. Passion fruit-like nano-architectures for enhanced chemotherapy. Gordon Research Conference “Drug Carriers in Medicine & Biology”; August 7-12, 2016; Waterville Valley, NH (USA).

2. D. Cassano, D. Rota Martir, G. Signore, V. Piazza, and V. Voliani. Biodegradable hollow silica nanospheres containing gold nanoparticle arrays. School of Nanomedicine 2015, December 2-4; Bari (Italy).

Research activity summary

Fluorescent proteins for multiphoton and super resolution imaging: synthesis and photo-physical studies on FP chromophores to shed light on the optical processes associated with the photochromic behavior of the Green Fluorescent Proteins (GFPs), in order to develop more efficient photochromic GFPs mutants for biosensing and data-storage.

Material science & nanochemistry: i) synthesis and characterizations of noble metal (gold, silver, platinum) nanostructures with different shapes (cubes, triangles, spheres) and magnetic nanoparticles. Design and development of multifunctional coatings based on organic molecules (in particular polymers and peptides) or silica envelopments.

Drug delivery, nanomedicine & catalysis: i) engineering of modular systems based on organic-coated gold nanostructures designed for the spatio-temporal exogenous controlled photo-release by non-linear processes of (bio)molecular payloads and drugs, ii) synthesis of up-conversion nanocrystal/gold nanosphere hybrid systems for delivery and release of cargos in living cells and organisms, iii) design of specific SERS nanoprobe for recognizing tumoral exosomes in biological fluids, iv) design and development of biosensors and analyte-enrichment modules based on 2D materials, v) design and development of biodegradable nano-architectures based on hollow silica nanocapsules containing arrays of ultrasmall metal nanoparticles for dual chemo/radio-therapy applications, selective endogenous-triggered drug delivery, and catalysis (in particular lightless air-pollutant removal and hydrogen storage).

Projects

1. POR CR0 FESR 2015 – INSIDE, development of diagnostic/theranostics targeting agents based on nanosystems and/or engineered lymphocytes for the early detection and treatment of melanoma and multiple sclerosis.

Involved in: i) FIRB n. RBLA03ER38, ii) FIRB n. RBIN048TSE, iii) PRIN n. 2008JZ4MLB_002, iv) FP7-PEOPLE ref. PCIG09-GA-2011-294263, v) Spanish Ministry of Economy and Competitiveness CTQ2011-27758, vi) Tuscany Region Grant for Innovation “ExoNanoDI”.

Reviewer - Editor

Reviewer for: Applied Physics Letters; Chemical Science; Chemical Communications; Journal of Materials Chemistry B and C; RSC Advances; Materials Horizons; Nanoscale; New Journal of Chemistry; Applied Sciences; Pharmaceuticals; Journal of Colloid and Interface Science; Nanomaterials; Applied Spectroscopy; Surface and Interface Analysis;

Editor for: Advanced Materials Letters

Teaching

Post Doc Supervised

2016-2017: Dr. Salvador Pocovi-Martinez, Istituto di fisiologia clinica, CNR-IFC, Pisa (PI), Italy. Co-supervised with Dr. Luca Menichetti.

Doctoral Theses Supervised

2017-: Ana-Katrina Mapanao. CNI@NEST. Primary Advisor. Currently Supervised.

2016-: Filippo Begarani. CNI@NEST. Co-advisor. Currently co-supervised.

2014-: Domenico Cassano. CNI@NEST. Primary Advisor. Currently Supervised.

MSc Theses Supervised

2016-2017: Rosa d'Apice. CNI@NEST. Primary Advisor. Currently Supervised.

2014: Domenico Cassano. NEST-Scuola Normale Superiore. Primary Advisor (co-advisor Prof. Stefano Luin, NEST-SNS). Now at CNI@NEST.

2014: Lorenzo Scipioni. NEST-Scuola Normale Superiore. Co-advisor. Now at NIC@IIT.

Internships supervised

2014: Diego Rota-Martir. CNI@NEST. Co-advisor. Now at School of Chemistry, University of St Andrews (UK).

Scuola Normale Superiore

2015: Biophysics II. Primary Instructor: Prof. Fabio Beltram. Guest lecture on metal nanoparticles: synthesis and applications.

2013: Biophysics II. Primary Instructor: Prof. Fabio Beltram. Guest lecture on gold nanoparticles: synthesis and applications.

2012: Biophysics II. Primary Instructor: Prof. Fabio Beltram. Guest lecture on gold nanoparticles as drug carriers.

University of Pisa

Oct 2004 – Oct 2006: laboratory teaching assistant for the courses of general chemistry, analytical chemistry and inorganic chemistry.

High Schools

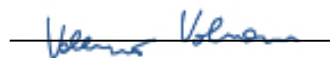
Oct 2011 – Nov 2011: materials chemistry teacher at ITG (Livorno, Italy)

Apr 2010 – Jul 2010: general chemistry teacher at ITIS (Livorno, Italy)

Community

2016: Bright-Pisa. Exposition of images from the nanoworld.

2015: Lecture for non-scientists (Pisa). Nanoparticles: discovery or invention?



Autorizzo al trattamento dei miei dati personali ai sensi del D.lgs 196/03 art. 7/13/23