

	<p>Romeo Beccherelli Consulate General of Italy 2590 Webster Street – San Francisco, CA 94115 (USA) https://conssanfrancisco.esteri.it romeo.beccherelli@esteri.it romeo.beccherelli@cnr.it Phone: +1 (415) 292-9242</p>
<p>CURRENT POSITION</p>	<p>Science Attaché - Head of Scientific Office at Consulate General of Italy in San Francisco;</p> <ul style="list-style-type: none"> • promotion of Italian science and technology; • consolidation of relations between research institutions and higher education in Italy and the USA (with particular reference to those in the north-western States) and promotion of structured agreements (mobility of researchers and doctoral students, advanced research and higher education projects and possible establishment of joint laboratories/institutes/research centres); • promotion of technology transfer between the academic and industrial worlds, promotion of cooperation agreements between companies and universities of the two countries, promotion and consolidation of relations between Italian and US incubators and networks of business incubators, promotion of Italian start-ups in the USA; • promotion of economic-industrial relations in the advanced scientific and technological sectors, actions to attract USA investments in Italy with high technological value; support to Italian companies willing to invest in the USA or access the USA market; • technology scouting and reporting on research, development and innovation; • organization of scientific and technological initiatives and events; • promotion of mobility between Italian and American researchers and scholars; • participation and assistance to Italian delegations visiting the consular district of San Francisco.
<p>RESEARCH INTERESTS</p>	<ul style="list-style-type: none"> • Engineering and information and communication technology: <ul style="list-style-type: none"> ○ Terahertz Science & Technology, THz communications, microfabricated devices such as filters and antennas and spectroscopic and data-comm characterisation; ○ Dynamically scanned antennas for satellite communications based on metasurfaces; ○ Long Wavelength InfraRed (LWIR) sensors and their readout; ○ Photonics and integrated optics devices; ○ Sensor technology and sensor systems; ○ Liquid crystal displays; ○ Digital electronics and computer system architecture. • Nano-technology: <ul style="list-style-type: none"> ○ Metasurfaces and Metamaterials, Plasmonics; ○ Chemical Sensor arrays. • Physical Sciences <ul style="list-style-type: none"> ● Liquid Crystals.
<p>SCIENTIFIC PAPERS</p>	<p>Participant to 25+ funded projects, Coordinator or Principal Investigator in 20+ funded projects.</p> <p>Author of:</p> <ul style="list-style-type: none"> • 115+ papers published in peer reviewed research journals • 120+ papers in conference proceedings • 8 book chapters • editor of a special issue of an ISI journal • inventor of 2 patents <p>https://scholar.google.com/citations?user=1M4VR6MAAAAJ&hl=en</p>

<p>EDUCATION AND TRAINING</p>	
<p>1998/05/28</p>	<p>Ph.D. in Electronic Engineering University of Rome "La Sapienza"</p>
<p>1994/05/17</p>	<p><i>Laurea</i> (master) in Electronic Engineering, University of Rome "La Sapienza", <i>cum laude</i></p>

WORK EXPERIENCE	
Since 2023/11/27 (ongoing)	Science Attaché - Head of Scientific Office at the Consulate General of Italy in San Francisco (CA – USA), jurisdiction for Alaska, (northern) California, Idaho, Hawaii, Montana, Oregon, Utah, Washington. 2590 Webster Street, 94115, San Francisco (CA - USA)
Role and responsibility	See above
Since 2021/01/01 (ongoing)	Research Director (permanent member of core staff, currently seconded as Science Attaché). National Research Council of Italy– Institute for Microelectronics and Microsystems – via del fosso del cavaliere 100, 00133, Rome (Italy).
Role and responsibility	Research planning, coordination and supervision. Fund raising, research contract negation, strategical planning, coordination of permanent researchers, recruitment, supervision of temporary researchers, post-docs and of Ph.D. master and undergraduate students.
From 2005/12/31 to 2020/12/31	Senior Researcher (permanent member of core staff) National Research Council of Italy– Institute for Microelectronics and Microsystems – via del fosso del cavaliere 100, 00133, Rome (Italy).
Role and responsibility	Research planning, coordination and supervision; Fund raising, research contract negation, strategical planning, coordination of permanent researchers, recruitment, supervision of temporary researchers, post-docs and of Ph.D. master and undergraduate students.
From 2001/12/19 to 2005/12/30	Researcher (permanent member of core staff) National Research Council of Italy– Institute for Microelectronics and Microsystems - via del fosso del cavaliere 100, 00133, Rome (Italy)
Role and responsibility	Research execution; Fund raising, research contract negotiation.
From 2000/01/03 to 2001/12/18	Post-Doctoral Research Fellow University of Rome "La Sapienza" – Department of Electronic Engineering– 18, via Eudossiana, 00184 Rome (Italy)
Role and responsibility	Research execution
From 1997/11/01 to 2000/01/02	Postdoctoral Research Assistant University of Oxford – Department of Engineering Science - Parks Road, Oxford OX1 3PJ (UK)
Role and responsibility	Research execution
From 1995/01 to 1996/01	Second Lieutenant of the Technical Corps of the Italian Army Italian Army
Role and responsibility	Procurement and tests and evaluation of electrical and electronic systems for the Italian Army.

SERVICES TO THE NATIONAL AND INTERNATIONAL COMMUNITY

From 2017/05/01/ to 2023/12/31	<p>Expert for the Ministry of University and Research of the Italian Republic (MUR) (formerly, Ministry of Education, University and Research of the Italian Republic (MIUR)):</p> <ul style="list-style-type: none"> • Management of the European Structural and Investment Funds in the programming period 2014-2020, project officer for 5 projects, total funding in excess of 80 M€. • Project officer in the evaluation of Proposals selected by the European Investment Bank, pursuant to Action II.3 of the National Operational Programme – Research and Innovation 2014-2020.
From 2022/03/01 to 2027/12/31	<p>Scientific Expert acting as monitor for the currently Ministry for Enterprises and Made in Italy (MIMIT):</p> <p>Monitor for a project funded in the frame of the "Important Projects of Common European Interest (IPCEI) – Microelectronics – 2", pursuant to the Commission Decision of 8 June 2023.</p>
From 2020/04/03 to 2025/12/	<p>Scientific Expert acting as monitor for the Ministry for Enterprises and Made in Italy (MIMIT) (formerly, Ministry of Economic Development of the Italian Republic (MISE)):</p> <p>Monitor for the first project funded in the frame of the "Important Projects of Common European Interest (IPCEI) – Microelectronics", pursuant to the Commission Decision of 30 January 2018 setting up the Strategic Forum for Important Projects of Common European Interest (2018/C 39/03) and Commission Decision of 18 December 2018 (2018/C 8864 final).</p>
From 2016/03/14 to 2016/06/30	<p>Seconded Scientific Expert at United Nations Educational, Scientific and Cultural Organisation (UNESCO), 7 Place de Fontenoy, 75007 Paris (France):</p> <p>Scientific and technical assistance to the Scientific Advisory Board (SAB) of the Secretary General of the United Nations (UN) for the preparation of final meeting and final report on Science, Technology and Innovation for Sustainable Development.</p>
Since 2003	<p>Expert-Evaluator & Reviewer for the European Commission (DG-INFSO and by way of the Research Executive Agency (REA) and of the Health and Digital Executive Agency (HaDEA):</p> <p>Expert-Evaluator & Reviewer since 2003 for the European Commission (DG-INFSO), the Research Executive Agency (REA), the European Innovation Council and SMEs Executive Agency (EISMEA) and of the Health and Digital Executive Agency (HaDEA)</p>
Since 2010	<p>Expert-Evaluator for the Eureka Secretariat</p>
Since 2012	<p>Expert-Evaluator & Reviewer for the Ministry of Education, University and Research of the Italian Republic</p>
2019	<p>Expert-Evaluator for The Research Agency of the Ministry of Education, Science, Research and Sport of the Slovak Republic</p>
From 08/2016 to 03/2020	<p>Expert-Evaluator for the Central Finance and Contracting Agency of the Republic of Latvia</p>
From 2016/08 to 2016/09	<p>Expert-Evaluator for Regione Toscana (by way of SviluppoToscana S.p.A.</p>
Since 2016	<p>Expert-Evaluator for Regione Puglia (by way of Puglia Sviluppo S.p.A.)</p>
Since 2003	<p>Referee for scientific journals published by: Nature Publishing Group, IEEE, OSA (now Optica), AIP, IOP, SPRINGER, Elsevier, EDP Science</p>

TEACHING EXPERIENCE	
Since 2013/04/19	Professor (various roles since 2013/04/19) International Telematic University UNINETTUNO Corso Vittorio Emanuele II, 39, 00186 Rome (Italy)
Since 2008	Supervisor of Ph.D., master and undergraduate students enrolled at Sapienza Università di Rome, Università della Calabria, Università Telematica Internazionale Uninettuno (4 Ph.D. awarded under my supervision)
1999/09 - 1999/12	College Lecturer in Engineering - New College - Oxford (UK).

MAIN RESEARCH AND COORDINATION EXPERIENCE	
2022-2025	Contact point for CNR-IMM for the Innovation Ecosystem " Rome Technopole " funded in the frame the EU "Recovery and Resilience Facility" (Italian PNRR). Focus on THz science and technologies.
2021-2022	Principal Investigator for a commercial contract with a large Italian enterprise on "Nanotechnologies for advanced RF circuits and components.
2017 -2022	Work Package leader in a research project funded by the European Space Agency (ESA) following their Intention to tender (ESA ITT) AO/1-8614/16/UK/ND "Low Profile Active Scanning Antenna Array Demonstrator".
2015-2018	Work Package leader in a research project funded by the European Space Agency (ESA) following their Intention to tender (ESA ITT) AO/1-7992/14/NL/MH "AMC/Metamaterial Antennas For Broadband Connectivity"
2015/01-2017/01	Principal Investigator for CNR-IMM in "On-Chip Novel Optical Modulator", funded by the Qatar National Research Fund.
	Substitute MC in the Cost Action IC1208 "Integrating devices and materials: a challenge for new instrumentation in ICT".
2013-2016	Italian Coordinator of a "Great Relevance" bilateral research projects between Italy and Quebec investigating "THz Lenses with electro-optical tuneable focal length", funded by the Italian Ministry of Foreign Affairs and International Cooperation.
	Principal Investigator of the CNR-IMM unit in the "THEIA - TeraHertz Imaging Advances (THEIA): Looking with Terahertz Eyes" funded by the Ministry of Education, University and Research (Italy)
2013-2015	Italian Coordinator of a "Great Relevance" bilateral research project between Italy and Poland investigating "Functional metamaterials for spatial light modulators at THz spectrum". Funded by the Polish CANALETTO programme and by the Italian Ministry of Foreign Affairs and International Cooperation.
2011/07-2013/03	Principal Investigator for CNR-IMM for a contract with SELEX Sistemi Integrati S.p.A. and CNR-IMM "Read-out and acquisition system for chemical sensor array for defence and security applications."
2011/09 – 2013/08	Project Coordinator of the EU funded FP7-PEOPLE-IEF-2010 "tunAble Liquid-crystal LOng-range surface PLASMon polariton components (ALLOPLASM).
2008/01 – 2011/06	Workpackage leader in the EU funded FP7-ICT-STREP "Biologically inspired computation for chemical sensing (NEUROCHEM)" investigating and developing large gas sensor arrays and their specialized electronics.
2007	Workpackage leader in the EU funded FP6-IST-NoE "General Olfaction and Sensing Projects on a European Level (GOSPEL)".

2007-2009	Italian Coordinator of a "Great Relevance" bilateral research projects and between Italy and Turkey (jointly funded by the Italian Ministry of Education University and Research and by Turkish Tübitak), investigating micro-photonic resonators on silicon for optical communications and sensing.
2006-2008	Italian Coordinator of a "Great Relevance" bilateral research projects between with Italy and Greece (funded by the Italian Ministry of Foreign Affairs), investigating and developing photonic crystals for optical communications based on silicon and liquid crystals.
2004/01- 2008/06	Main contact person for CNR-IMM-Roma in EU funded FP6-IST-NoE "GOSPEL".
2003/01 - 2006/12	Principal Investigator for CNR-IMM-Roma in the FIRB 2001 "Microtechnologies for virtual immersive telepresence (MITETIV)" (RBNE01PMZA_002) funded by funded by the Italian Ministry of Education University and Research.
2002/01- 2005/11	Main contact person for CNR-IMM-Roma the Thematic Network FP5-IST "Second Network on Artificial Olfactory Sensing (NOSE II)".
2002/09 - 2006/08	Research Coordinator in the FP5-TMR " Synclinic and Anticlinic Mesophases for Photonic Applications (SAMPA)" supporting the Coordinator University di Hull (UK).
2002/09 - 2006/08	Principal Investigator for CNR-IMM-Roma for the subcontract between INFM e CNR-IMM-Roma in the FP5-TMR "SAMPA".
2000-2001	Principal Investigator in the "Giovani Ricercatori 2000" project funded by University of Rome "La Sapienza".
2005-2006	In charge of commercial contracts on behalf of CNR-IMM of contracts with: Department of di Electronic Engineering - University of Roma "La Sapienza" - (five contracts in 2005-2008), Department of Mechanics and Aeronautics - University of Roma "La Sapienza" (one contract in 2008), Department of Chemical Science and Technology and Biosystems - University of Siena (two contracts in 2005-2006).
2001	De-facto Principal Investigator for INFM Roma in the FP4-TMR "Optical research of chiral systems (ORCHIS)" during a long sick leave of the PI (2000-2001)
2000/01- 2001/12	Post-doctoral Research Fellow in a research grant PRIN 2001, funded by the Ministry of University and Research
1997/11-1999/12	Post-doctoral research assistant in the research grant: "Antiferroelectric liquid crystal displays" funded by the UK governmental Agency EPSRC

OTHER RELEVANT EXPERIENCE

Since 2013	<p>Author and video lecturer of:</p> <ul style="list-style-type: none"> • one Multimedia Massive Online Course targeted at ISCED2011 targeted at ISCED2011 level V and VI (10 academic hours); • two Multimedia Massive Online Courses targeted at ISCED2011 level VI (40 academic hours each). • two Multimedia Massive Online Courses ISCED2011 at ISCED2011 level VII (28 academic hours each) <p>All Multimedia courses are delivered through the web and also broadcasted by satellite TV by International Telematic University UNINETTUNO</p>
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HONOURS, AWARDS, MEMBERSHIPS, OTHER QUALIFICATIONS

1999	His Ph.D. thesis (University of Rome "La Sapienza", 1998) was awarded the International Otto Lehman Prize 1999 by the University of Karlsruhe (D) and the Otto Lehmann Foundation: <i>"The goal of the prize competition is to award young scientists for an outstanding Habilitation work, a Doctoral Thesis, a Graduate Work (Diploma, Master) in the field of Liquid Crystal Technology"</i>
1994	Qualification as chartered Engineer (Italy)

