

PERSONAL INFORMATION

Andrea Taramelli



✉ andrea.taramelli@iusspavia.it andrea.taramelli@isprambiente.it andrea.taramelli@eucentre.it

🌐 <http://www.iusspavia.it/~faculty-andrea-taramelli>
<https://www.researchgate.net/profile/Andrea-Taramelli>

💬 Skype: [andrea.taramelli@eucentre.it](https://www.skype.com/people/andrea.taramelli@eucentre.it)

| Nationality Italian

POSITION

Full Professor

WORK EXPERIENCE

01/01/2015 – ongoing

Full Professor

IUSS - University School of Advance Studies, Palazzo del Broletto, Piazza della Vittoria 15, 27100 Pavia, <http://www.iusspavia.it/home>

- Full Professor in Remote Sensing and Surface Process Science at IUSS University of Pavia. Scientific Skills Topography and Surface Changes, Eco-Geomorphology, Remote Sensing, Natural Hazards, GIS, Applied Space Economics.

Institutional Activities:

- IUSS faculty representative to the Academic Senate (2015-ongoing).
- Pro-rector delegate for Impact on Society (2024-ong).
- Member for IUSS of the JoTTO Joint Technology Transfer Office (IUSS, Sant'Anna, Normale di Pisa, IMT Lucca, GSSI, SISSA) (2017-ongoing).
- IUSS delegate to the coordination team composed of the delegates/referents of the six colleges of higher education (IUSS, Sant'Anna, Normale di Pisa, IMT Lucca, GSSI, SISSA) and their respective Placement Offices for the organization of the annual JOB Fair event (years 2017-18).
- Scientific Director of the Interuniversity Research Center (IUSS-Sant'anna) on Remote Sensing Applied to Space and Earth Observation ("CIRTA") (2016-2021).
- Scientific Member Copernicus Academy Research Consortium - Earth Observation at the Polytechnic University of Turin (2022-ongoing).
- Member of the Understanding Managing Extreme PHD <http://www.iusspavia.it/en/ume>. (2015-ongoing)
- Member of the National PhD in Sustainable Development and Climate Change <http://www.iusspavia.it/phd-sdc>. (2021-ongoing)
- Member of the National PhD in Earth Observation https://phd.uniroma1.it/web/NATIONAL-PHD-COURSE-IN-EARTH-OBSERVATION_nD3862_EN.aspx. (2022-ongoing)
- Member of HOs Group - European Hydrographic Offices and European Commission representatives - on coastal mapping using Lidar bathymetry and hyperspectral aerial acquisition with BSH (Germany), SMA (Sweden) and SHOM (France) (2012-2018).
- Lead partner (Poc) of the Earth Observation Group - DI-01-C2 (2014-2018): Monitoring, warning and risk assessment from geohazards. (<http://www.earthobservations.org/ts.php?id=163>) (2012-2019).

Courses:

Bachelor's degree program (courses): Implementation, management and policy strategies of space missions for Earth observation.

PhD program (courses): Principles of Remote Sensing Applied to Agriculture (Phd Climate); Principles of Remote Sensing Applied to the Coastal Belt (Phd Extreme); Space Economy course (PhD DNOT and SST).

Teaching assignment at the University of Pavia: The courses I taught "Geomatics and GIS" and Hydromorphology <http://civrisk.unipv.it/degree/>

Technologies Transfer Activities:

As IUSS rectoral delegate to the JoTTO Joint Technology Transfer Office in which along with delegates from the SSSUP, Normale, IMT, GSSI and SISSA colleges I am responsible for:

- facilitating the coordination of intellectual property management under agreements with external entities involved through European, national projects or research orders;
- enhancing and disseminating university research results by encouraging their use at companies and entities;
- intensify ties with industry and make new technologies, knowledge, research personnel and facilities available to companies;
- provide support to faculty and researchers in identifying spin-offs including through the creation of "spin-off enterprises."

Projects (most recent):

- Feb 24-ongoing - PI PNRR MUR Project Extended Space Partnership: Space IT UP (Total Budget €70m of which IUSS €700,000)
- Jan 24-ong - PI PRA-INFRA (Budget 250,000 €): RESEARCH PROJECTS iSCORE (Infrastructure on Snow COVer Reflectance and sEasonality)
- September 23 - ongoing - PI RESEARCH PROJECTS OF RELEVANT NATIONAL INTEREST - Call 2022 Prot. 20223AR37M. (Budget 245,000 €) SpecFor - Spectroscopic detection of Forest damage: Investigating new Italian holm oak declines from leaf to landscape level.
- June 23 - Ongoing - PI PNRA (Budget 365,000 €): RESEARCH PROJECTS TO DEEPEN KNOWLEDGE IN ANTARCTICA Holistic Overview of the supraglacial Lake-Ice-Snow Timing and Climate causality (HOLISTIC)
- March 2023 - Co-I for NASA science team for synthesis research on LCLUC in South Asia NNH21ZDA001N-SARI_A.47_LCLUCSS.
- June 2022 - ongoing PI for ASI PRISMASCIENCE grant (Budget €300,000) with NASA Goddard and JPL on coastal hazard using the PRISMA hyperspectral mission.
- March 2021 - co-PI for NASA science team for the OCO NRA NNH20ZDA001N Space-based Detection and Quantification of CO2 Point Sources mission.
- January 2022-December 2023 - PI Three-Year Planning (PRO3) under the joint program of the 6 Special Education Schools:
- Scientific Computing for Natural and Social Sciences and Applications: methodological and technological development (€726,000)
- Earth Observation for agriculture policy tool-kit (EO4AGRI) (€ 100,000)
- Sept 2020 - Dec 2022 co-PI of the 'ECFAS H2020 project (Budget 3,000,000 €) - The ECFAS project will contribute to the evolution of the Copernicus emergency monitoring service by demonstrating the technical and operational feasibility of a European coastal flood warning system.
- Feb 2020 - Feb 2023: PI on the 'NOCTUA POR Lombardia contract (Budget €7,000,000). Landscape monitoring that aims to provide information on the displacement of buildings, bridges and highways to government agencies and private citizens in the Lombardy Region using SAR observations.
- November 2020- November 2021 - PI POA 2020 project to achieve the objectives of line 3 - ACTIVITY 3.1.1 - Design of "Informambiente" section and related digital communication campaign - DECREE CLIMA MATTM. Funding: €80,000 from Ministry of Environment-ISPRA.
- September 2019 - 2021. PI of the Project "EFLIP - Economic impacts of flood risk in Lombardy and innovative risk mitigation policy". The EFLIP project will promote innovation and adoption of DRR activities at the regional level and illustrate the real benefits and economic value in the face of climate variability and short-term climate change. Funding: €250,000 from Cariplo Foundation.
- October 2018 - November 2019 PI PON GOVERNANCE project "Acquisition and preprocessing of satellite imagery and validation of data on land use typology." Funding: €105,000 from EUROSTAT-ISPRA.
- December 2017 - November 2018 PI SIRS GMES Initial Operations/Copernicus Land monitoring services project - Validation of Land products (pan- European and local components) related to all European countries Funding: 27,500€ Copernicus LAND-ISPRA.

Business or sector Public University

01/01/2015 – ongoing

**National Expert at the COMINT Space Coordination Structure
Copernicus National Delegate to the EC
Italian national expert for the EU Destination Earth Initiative.**

Presidenza del Consiglio

- Italian delegate to the EU at the Copernicus User Forum (2014-ong).
- Italian delegate to the EU at the Copernicus Committee for the Presidency of the Council of Ministers (2014-ong)
- Italian national expert for the EU Destination Earth Initiative (Sept. 2021-ong).
- Chair of the Leadership Group Framework Partnership Agreement on Copernicus User Uptake FPCUP <https://www.copernicus-user-uptake.eu/> (May 2018 - ongoing)
- Coordinator of the Italian National Copernicus User Forum (2014-ong).
- Member of the COMINT coordination structure at the Presidency of the Council of Ministers (2018-ong)
- Member of the Amaldi Foundation Scientific Committee (2023-ong)
- Member of the Advisory Board Osservatorio della Space Economy - Politecnico di Milano (2022-ong)
- Member of the Scientific Advisory Board of Galaxia - CDP Venture Capital (2024-ong)

Institutional Activities:

As Italian delegate in the Copernicus Committee and Forum, I supported the Brussels representation for the concertation procedure for the implementation of Copernicus Regulation 377/2014 and EU Space Regulation 696/2021. I perform activities of 1 preparation of national positions in the European framework, 2 operational interface with European entities responsible for the implementation of Copernicus Services,

In recent years I have finalized Memoranda of Understanding with European delegated entities in support of Italian initiatives such as: ECMWF (signed Mirror Copernicus agreement <https://climate.copernicus.eu/italy-ecmwf-partner-promote-use-copernicus-climate-atmosphere-data> and National Collaboration Program funding for air quality activities <https://atmosphere.copernicus.eu/national-collaboration-programme-italy>) and in the process of signing with EEA, Mercator Ocean International, JRC, EUSPA.

- I am chairman of the Leadership Group Framework Partnership Agreement on Copernicus User Uptake FPCUP <https://www.copernicus-user-uptake.eu/> which we created with the French and German delegations subsequently involving all Member States at the European level for uptake programs and of which €4 million projects have been funded in Italy.

Thanks to FPCUP funding I participated in the creation of the Italian Copernicus Research Consortium Academy at the Polytechnic University of Turin of which I am a scientific member.

- As a member of the "Technical Group" supporting the COMINT at the Prime Minister's Office, I coordinated in the years 2019-2021 the Working Group on Earth Observation that drafted the National Earth Observation Master Plan delivered to the PCM in December 2020 and updated annually with the latest version in December 2022, and participated as a full member in the Working Group on Space Economy that drafted the second National Space Economy Plan in December 2020.

- The final Copernicus Mirror master plan, the National Earth Observation Master Plan and the second version of the Space Economy Plan were the basis for the PNRR plan of the EU Next Generation funding (€4.5 billion for Earth Observation), which includes the Copernicus Mirror program, the Space PNRR (PNRR M1C2-22 IRIDE Project), the PNRR of the Ministry of Ecological Transition - MiTE (M2C4_1. 1), the PNRR of the Ministry of University and Research - MUR, (M4-C2-1.3 and M4-C2-3). These investments were based in part on the results of the GDL OT working group and the work of the National User Forum. All investments are referenced by the documents produced: National Plan for Earth Observation Capacity Development (Upstream, Midstream, Downstream) with: Annex 1. Roles of national institutions; Annex 2. Needs analysis of buyer groups: identification of thematic reference services (produced by the NFU); Annex 3. National Operational Services: constituent elements of Earth observation services. National operational services: constituent elements and products (produced by the NFU).

- coordinator of the National Forum of Earth Observation Users (UFN OT) Copernicus Space Regulation EU 2021/696, which is the PCM's tool aimed at sharing information related to Copernicus Program developments and initiatives in the OT field I manage 15 Consultation Tables pertaining to the different user communities (Security, Infrastructure and Transport, Cultural Heritage, Agriculture, Environmental Protection, Coastal, Dissemination, Enhancement - Industry and Business, Emergency, Operational Geology, Operational Hydrology, Operational Climatology: - Air Quality - Climate - CO2, GREEN-NET) and two national networks such as Copernicus Academy and Copernicus Relay network of Enterprises for a total of 900 people to coordinate.

Business or sector Public Body

01/09/2007 – ongoing

Adjunct Associate Professor

ISPRA Italian Institute for Environmental Protection and Research, via Vitaliano Brancati 48, 00148 Rome <https://www.isprambiente.gov.it/en>

- **Associate Professor at ISPRA with Disposition of ISPRA President** (Jan.2016- ongoing)
- Competition-winning Permanent Researcher (Jan 2011-Dec 2014).
- Competition-winning Fixed-term Researcher (May 2008-Dec 2010).
- **Institutional Activities:**
- ISPRA delegate to the PRISMA Advisory Group for Data Exploitation (PAGE) of the National Hyperspectral Mission at ASI (PRISMA and PRISMA SG) and the MAIA Mission (ASI-NASA) (March 2018-ongoing).
- ISPRA delegate to the Space Economy Oversight Committee of the Ministry of Industrial Development (budget value €1.3 billion - <http://www.mise.gov.it/index.php/it/impresa/competitivita-e-nuove-impresespace-economy>) (October 2017-ongoing).
- Member of the ASI-ISPRA Joint Scientific Committee (2016-2020).
- Head of the Space Economy Implementation Group in ISPRA (management of 40 people from 4 different departments for the Copernicus Mirror Master Plan) (September 2017-ongoing)
- EU national expert for the implementation of the Maritime Spatial Planning Framework Directive (2014-2018).
- **Projects (most recent):**
- June 22- ong: PI PNRR National Project IRIDE ESA: activities of Component M1C2 - Earth Observations (Budget 200,000).
- March 2022- Feb 2027: PI ESA Contract GMVAD CHEES/ISPRA/30747/22 Design and development of the End To End Simulator of the CHIME mission Phase B2/C/D/E Funding 3,000,000
- January 2020 - July 2021: PI on ESA RFQ/3-15502/18/NL/IA - CHIME Mission Requirements Consolidation €250,000. October 2018 - January 2020: PI on CHIME Mission Requirements Consolidation: The objective is to assess whether the development of a Copernicus hyperspectral satellite mission in the application domains "Agriculture food security & raw materials". Funding: €350,000.
- March 2017 - May 2021: Project scientist of two ASI-ISPRA operational service implementation projects on Habitat Mapping and Air Quality Funding: 6,000,000€.
- December 2016 - January 2018 (PI): Team Leader ISPRA ESA/AO/1-8579/16/I-SBo "HYPERSPETRAL IMAGING MISSION CONCEPTS. Esa funding: €500,000. User requirements for this new Copernicus hyperspectral mission will be analyzed taking into account authoritative sources and addressing downstream user communities both institutional and private sector.
- April 2016 – Ongoing (co-I ISPRA): EEA/IDM/15/026/LOT 2 Budget 400.000€ "Framework service contract for Services Supporting the EEA – Implementation of cross-cutting activities for coordination of the in situ component of the Copernicus Programme Services. Responsible Task Marine in-situ.
- June 2017 - September 2020: PI of the project "H2020-SC5-2016-2017 - CLARA - Climate forecast enabled knowledge services". The CLARA project will promote innovation and adoption of climate services based on seasonal and decadal forecasts and climate projections and illustrate the real benefits and economic value of CS in the face of climate variability and short-term climate change. Funding: €3,500,000
- Maggio 2015 - Giugno 2019 (Co-I): DG GROW Contract Agreement -385/PP/2014/FC1 (Copernicus User Uptake Framework Contract) Support to the take-up of Copernicus services by users Lot1 and Lot2 (Budget 1.657.583,75€). Responsabile dell'implementazione dell'ambiente marino costiero.
- June 2015 - June 2018 (co-I): JMAP Coastal Mapping DG Mare project (Budget 3,000,000 €). The objective of the project is to analyze the needs and means in Europe for marine topographic data acquisition in coastal areas, as well as the development of a European strategy for marine data acquisition. June 2015 - October 2019 (co-I): Ecopotential H2020 Project (Budget 16,000,000 €). ECOPOTENTIAL focuses on internationally recognized PAs in Europe and beyond, in a wide range of biogeographic regions, and includes UNESCO, Natura2000 and LTER sites and large marine ecosystems. The best use of Earth observation (EO) and monitoring data is enabled by new open access ecosystem data services (ECOPERNICUS).
- July 2013 - 2015 (co-I): ISPRA LIFE+IMAGINE project: Application for integrated coastal zone management implementing GMES, INspire and sEis data policies (Budget 3,000,000 €)
- April 2012- Oct 2014 (co-I): EU DG Enterprise Contract Agreement - Lot 2: Support to the take-up of GMES services by users Section 4: Technical Proposal No. 89/PP/ENT/2011 (Budget 4,000,000 €).
- Jan 2012-Jan 2016 (PI) ISPRA: FP7 - OCEAN.2011-1 Multi-use offshore platforms (MERMAID - Innovative Multi-purposE off-shoRe platforMs: pAnning, Design and operation (Budget 8,000,000 €).

- 2009 - 2012 ISPRA: Project (PI) - Coastal Defense Innovative Technologies (Pr.922 - THESEUS - Budget 7,000,000 €) FP7 - EU Framework Programme. Investigation of morpho-dynamics of coastal areas using multispectral imagery and SAR processing.
- 2008 - 2012 ISPRA: Project (co-I) Survey of shallow coastal areas using high-resolution hyperspectral imagery and LIDAR analysis in Italy (Pr.902 - LIDLAZ Budget 420,000 €).

Business or sector Public Research Governmental Agency for the Environment

01/09/2012 – ongoing

Adjunct Professor and Lecturer 'GIS and Remote sensing'

Eucentre Via A. Ferrata, 1 – Pavia (Italy) - <https://www.eucentre.it/?lang=en>

Insegnamento del corso avanzato presso le scuole UME (Understanding and Managing Extremes) e WRR (Weather Related Risk).

Projects (most recent):

- January 2020 - Ongoing: Co-I landscape monitoring. For all. From the NOCTUA space. PR-FESR Lombardy (Budget €7,000,000).
- Jan 2017 - Dec 2019: Project Manager GREEN - Grant Agreement ECHO-SUB-2016-740172-PREV18 GREEN "Green Infrastructures for disaster risk reduction protection: evidence, policy instruments and marketability" (DG ECHO). Budget €500,000. The project provides the necessary innovation in terms of methods, tools and solutions to appropriately promote the role of GI for disaster risk reduction (DRR), climate change adaptation (CCA).
- January 2014 - January 2017: Project Manager Ecological Coastal Strategies and Tools for Resilient European Societies ECOSTRESS (Work Program - DG ECHO 2013) Budget €500,000: The project will focus on finding better integrated strategies through strengthening the risk prevention and disaster management cycle of coastal zones.
- June 2014 - December 2016: SEGUICI - SMART TECHNOLOGIES FOR THE MANAGEMENT OF WATER RESOURCES FOR IRRIGUEOUS AND CIVIL USES (RESEARCH AND INDUSTRIAL DEVELOPMENT PROJECT IN THE FIELD OF SMART EXPERIMENTAL CITIES AND COMMUNITIES) Co-I: The project proposes to use the Bayesian stochastic modeling technique applied to ecosystem services in order to accurately assess the vulnerability of the water system by appropriately choosing the explanatory variables (i.e., predictors) to be used in statistical analyses. ROP ID 40512859 Decree no. 2373 March 20, 2014 Lombardy Region. Budget € 4,110,915.30

Business or sector Private non-profit foundation of the National Civil Protection that pursues a mission of research, training and service provision in the field of risk engineering

01/02/2004 – 31/12/2009

Adjunct Associate Research Scientist

Columbia University – New York - Lamont Doherty Earth Observatory - Private non-profit University, New York, NY 10027, Stati Uniti <https://www.ldeo.columbia.edu/> (2004-2009)

- 2006 – 2008 NSF Granted Proposal, Columbia University — INGV Rome: Project on uplifting and faulting at the transition from subduction to collision – a field and modelling study of the calabrian arc (3.000.000 \$).
- 2005 – 2006 Sino-Italian Collaboration Program For Environmental Protection Granted Proposal, Columbia University - Italian Ministry of Environment (International Environment Protection Branch) (co-PI): Project on Environmental Base Line Identification (Beijing and Alashan Area, China) for dust storm emission using remote sensing (Budget 380.000 €).
- 2004 - 2005 Joint World Bank/Columbia University project - Assessment of high disaster risk hotspots; NSF project - Assessment of natural hazard in Izmit area - Turkey by processing radar data (X-band, C-band, L-band).

Perugia University – Master Degree Course in Civil Protection Activities (2006-2010);

Contract researcher 2 Two-year project collaboration contracts on Cassa di Risparmio funds: Interferometric and optical analysis of slow soil deformations in the territory of the Umbria region

- 2005 - 2006 Granted Proposal, World Food Programme – University of Perugia (co-PI): project on "Strategy to delineate potentially affected areas by hurricane using a GIS approach" - Service Agreement No. SA/2006/08 (Budget 20.000 \$).
- 2005 Tiber River Authority - University of Perugia: project on "Landscape evolution model on the Nera River - Umbria Region" (Budget 10,000 €).
- Contract of supplementary teaching for the GIS - Geographic Information Systems course of the Bachelor of Science in Geological Sciences and the Master of Science in "Geological Resources and Risks," with the University of Perugia

LaSapienza University Rome, Master Degree course in Ecobiology (2009-2011)

Contract professor of the course 'GIS and Remote sensing' for master course for Eco-Biologist
 Contract professor for the course of Remote sensing of the Master of Science - Degree in Ecobiology, with La Sapienza University, Rome for the years 2009 - 2010 from 15-09-2009 to 31-05-2011

01/02/2004 – 01/02/2005

Project Manager at Sviluppo Italia, at the Italian Ministry of Environment (Quality of life branch)

2004-2005 (Quality of Life Sector): Project Manager (Sviluppo Italia) - G.I.S. (ArclInfo 9.0) implementation of activities related to risk management of national risk areas.
 - 2003-2004 (Quality of Life Sector): Project Manager (Sviluppo Italia) - Modeling of the Cecina River Basin, Tuscany, Italy, within the framework of the EU Water Directive, using multispectral and multitemporal images (Ikonos) in a GIS environment (ArclInfo 9.0).

Business or sector Public Governmental Agency

EDUCATION AND TRAINING

1/01/2002 – 1/01/2004

Postdoctorate

Lamont-Doherty Earth Observatory of Columbia University, New York, USA

- Assessing topography and surface changes using SAR techniques and multispectral imagery

1/01/1999 – 31/12/2001

PhD in Geomorphology, Hydrogeology, Engineering Geology

University of Perugia with 2 year visiting period at Lamont-Doherty Earth Observatory of Columbia University, New York, USA

- Ph.D. with (Prof. C. Cattuto) in collaboration with Ldeo of Columbia University (C.P. Stark and Prof. J.K. Weissel). Thesis on “Landslide Mechanisms and Hazard Assessment in central Apennines Italy

1/09/1998 – 31/12/1999

MBA “Business Administration of Environmental and Natural Resources”

University School of Advanced Studies Sant’anna, Piazza Martiri della Libertà, 33, 56127 Pisa

- Thesis on “Environmental emergencies management”.

1/09/1990 – 31/05/1996

Master degree in Geology

Università degli Studi di Perugia

- Thesis on “Landslides risk assessment”

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Spanish	B1	B1	B1	B1	B1

Peer Review, Evaluation/Validation, Monitoring of Project

- 2024: La Caixa Foundation – Doctoral INPhINIT Fellowships evaluation
- 2023: Environmental Protection Agency, Ireland - 2023 Research Call “**Harnessing** Data and Digitalization for the Environment”
- 2021: HE Civil Security for Society Calls Evaluations 2021 (FCT, BM, RI, DRS and SSRI)
- 2019 - 2020: NERC UK - SPF Constructing a Digital Environment Feasibility Studies Open Call
- 2017 Swedish National Space Board Call 2017
- 2016 Horizon 2020- Societal Challenge 2- 2016 calls - Expert contract number: CT-EX2006C132493-101.
- 2016 H2020 BONUS call 2015: Blue Baltc: Theme 5.1: Developing and improving scientific basis for integrated monitoring programmes for continuous assessment of ecological status and human pressures
- 2016 – 2018 STEREO III - Support to the Exploitation and Research of Earth Observation data" call for proposals 2016 and 2018 Belgian Science Policy Office.

Computer skills

- Operating systems: UNIX, Windows, MS-dos.
- Packages for graphics: AutoCAD 14, Corel Draw 11.
- Numerical toolkits and object-oriented programming: Matlab, IDL.
- Software for databases: SPSS, DB3-Plus, Access, and Excel.
- G.I.S. and Remote sensing: ArcGis9.x, ArclInfo 8, ArcView, ErMapper, Envi

Expedition and Field Experience

- PI of Field spectroscopy & mapping of Coastal eco-morphology in the Mekong delta – and Oristano Coastal Areas with overpasses of PRISMA Hyperspectral sensor (2020-2023) within the PRISMASCIENZA OVERSEE Project funded by ASI and by NASA 2022 NNH21ZDA001N-SARI A.47 Land-Cover/Land-Use Change:SARI
- PI of Field spectroscopy & mapping of Wetland eco-morphology in the Po delta –Sacca di Goro areas and Venice Lagoon with overpasses of SPOT Multispectral sensor (2012) with R. Boscolo, M. Musacchio (INGV) and N.

- Baccetti within the GMES USER UPTAKE Mission (DG Enterprise Programme) and the Cat1 proposal id7963.
- PI of Field spectroscopy & mapping of Wetland eco-morphology in the Scheldt areas Belgium with overpasses of SPOT Multispectral and Apex Hyperspectral sensor (2012) with Prof. J. Mombaliu and Prof. K. Sabbe within the THESEUS Mission (FP7 Programme) and the Cat1 proposal id7963.
- PI of Field mapping of vulnerable infrastructures in Gran Cayman, Aruba and Turk and Caicos Caribbean island within the R3i Mission (UNDP - EU Project August and September 2011).
- PI of Field spectroscopy & mapping of Wetland eco-morphology in the Exeter areas UK with overpasses of CHRIS PROBA Hyperspectral sensor (2011) with Prof. R. Thompson within the THESEUS Mission (FP7 Programme) and the Cat1 proposal id7963.
- Oceanographic campaign within URANIA for Multibeam acquisition of the Marmara sea bottom con/ L. Gasperini, E. Bonatti P. Lopez, 10/2010 within the Esonet NoE Mission (FP6 Programme).
- PI of Field spectroscopy & Laser scanning mapping of coastal morphology in the Lazio coastal areas and the Trasimeno Lake with overpasses of MIVIS Hyperspectral and Lidar Shoals (2009-2011) con C. Giardino, L. Disperati, L. Gasperini.
- PI of Alashan Desert WinDust Project, Mapping dust storm source regions in the Gobi Desert, China con/ C. Small, Q. Sun and W. Tao, 10/2005
- Oceanographic campaign within Universitatis for Ocean Bottom Seismometers positioning in the Calabrian Arc con/ A. Amato, L. Seeber and S. Web, 10/2004.

ADDITIONAL INFORMATION

Consulting

- 01/07/2011 – 01/06/2012 **Senior Consultant** to UNDP: GIS and Vulnerability Assessment for the United Nations Development Program (UNDP) and GESP Joint Venture (Joint Venture between GESP S.r.l., GIS4C B.V. and CGS-EI of UWI) in the "Provision of Services to Caribbean OCTs. Lot1: GIS and Vulnerability Assessment": EU project <http://r3i.gis-hmva.gesp.it/home>
- Jan. 2002 – June 2003 **Project Officer** Ide@data, Rome for the Italian Ministry of Environment at UN and World Bank in New York (*Energy project assessment - report on various energy projects under climate change forcing led by International Bodies such as UN, World Bank and EPA*)
- Feb.1998 – Feb.2000 **Project Officer** at Arca Consulting, Firenze (Research and drafting on international tender documentation and development of project in the field of natural resources management. Projects:
- LIFE – Urgent Safeguard Actions for the Sites of Community Interest. 2. EU – E.I.A. of the Kosovo environmental emergency on Albania. 3ADB. - *Capacity Building for Decentralization of the E.I.A. Process in Indonesia*
- Jan. 1997 – Jan.1998 **Project Officer** ENEA, Rome (*National Nuclear waste deposit study using GIS*)

AWARD

- National Scientific Habilitation to the functions of university Full professor in the Competitive Sector 04/A3 - APPLIED GEOLOGY, PHYSICAL GEOGRAPHY AND GEOMORPHOLOGY 14/05/2019
- National Scientific Habilitation to the functions of university Associate professor in the Competitive Sector 04/A3 - APPLIED GEOLOGY, PHYSICAL GEOGRAPHY AND GEOMORPHOLOGY 27/11/2013
- Winner of public competition for position RESEARCHER III LEVEL Scientific Area Earth Sciences IDPA Milan on 05-08-2012
- Winner of public competition for researcher position level III at ENEA. on 28-12-2012
- Positive evaluation for the United Nations International Organizations Associate Experts and Young Officials Program at UNIDO on April 30, 2002.
- Winner of open competition for registration in the regional register of professional collaborators - junior researcher - of IRRES (Regional Institute for Economic and Social Research), for the territorial area, on June 16, 1998
- Licensed to practice as a Geologist with examination taken at The University of Perugia on June 30, 1998

Publications (Most Recent)

- Morelli, A., Olori, D., Taramelli, A., (2024). The contribution of the resilience-thinking approach to the governance of complex systems: a qualitative study in the Po Delta area, Italy. *Ocean & Coastal Management*, **251**, 1, 107045 <https://doi.org/10.1016/j.ocecoaman.2024.107045>
- Righini, M.; Gatti, I.; Taramelli, A.; Arosio, M.; Valentini, E.; Sapio, S.; Schiavon, E., (2024) Integrated Flood Impact and Vulnerability Assessment Using a Multi-Sensor Earth Observation Mission with the Perspective of an Operational, Service in Lombardy, Italy. *Land* **2024**, *13*, x. <https://doi.org/10.3390/land13020140>
- Valentini, E.; Sapio, S.; Schiavon, E.; Righini, M.; Monteleone, B.; Taramelli, A., (2024), Development of a Pre-Automated Processing Chain for Agricultural Monitoring Using a Multi-Sensor and Multi-Temporal Approach. *Land* **2024**, *13*, 91. <https://doi.org/10.3390/land13010091>
- Schiavon, E., Taramelli, A., Tornato, A., Lee, C. M., Luvall, J. C., Schollaert Uz, S., et al. (2023). Maximizing societal benefit across multiple hyperspectral earth observation missions: A user needs approach. *Journal of Geophysical Research: Biogeosciences*, *128*, e2023JG007569. <https://doi.org/10.1029/2023JG007569>
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Presentazioni ad invito (recenti)

12/12/2023 - National and regional needs and capacities: Activities, requirements and priorities at National and Regional levels, aiming at the CSS evolution and complementary actions, Strategic Research Agenda Copernicus Security Service Eu Commission, Workshop on R&D for the evolution of the Copernicus Security Service

5/12/2023 - The Italian Copernicus National User Forum and its contribution to the operational development phase of the Next Generation EU-funded Earth Observation projects, EU Space Support Office, c/o DG DEFIS/R3

12/12/2023 - The Italian Copernicus Strategy: Earth Observation data for sustainable transition, COP28 Side Event Italian Pavilion - Blue Zone Dubai, 4 December 2023, Earth Observation contribution for monitoring and planning climate actions

03/10/2023 - Copernicus Marine Service and the Copernicus Coastal Hub: A member state vision, EuroGEO Workshop 2023 Bolzano "Ocean Session"

02/10/2023 - Italian EO Infrastructure and Services: the overall picture, EuroGEO Workshop 2023 Bolzano: "On going developments of EO Infrastructure and Services in Italy: towards sustainability".

18/05/2023 - La Strategia Italiana Copernicus: gli Earth Observation Data per la transizione sostenibile e verde, Space Meetings Veneto – Venezia

17/05/2023 - La costellazione satellitare "IRIDE" per l'osservazione della Terra, Forum PA 2023 - A CURA DI "Ufficio per le politiche spaziali e aerospaziali"

16/05/2023 - SPACE AS A TOOL FOR THE PROTECTION OF CITIZENS AND SOCIETY: Copernicus Programme, 2ND ESA SECURITY

CONFERENCE Brussels

- 26/05/2023 - "The national space and EO strategy alongside and within the Copernicus evolution: the Italian Copernicus User Forum", APRE - NCP Training - Organised by COSMOS4HE in collaboration with GREENET: "COPERNICUS Training"
- 16/02/2023 - Il Piano nazionale Osservazione della Terra, e il Copernicus User Forum nazionale, Seminario online "Verso una strategia europea per l'utilizzo dei dati spaziali" – Rappresentanza permanente a Bruxelles Italiana
- 02/11/2022 - User's needs, requirements and expectations of space economy, FRAMEWORK PARTNERSHIP AGREEMENT FOR COPERNICUS USERS UPTAKE), WORKSHOP ON RISK MANAGEMENT, CIVIL PROTECTION AND HUMANITARIAN AID – Ambasciata Italiana Panama- Ministero della Ricerca Panama
- 12/10/2022 - Copernicus user needs, DG DEFIS-EUSPA-EEA Workshop BIODIVERSITY IN COASTAL ECOSYSTEMS
- 11/10/2022 - Development and application of earth observation research and remote sensing technology, Keynote Speaker For the Conference on Italy and Vietnam cooperation: Ho Chi Minh University of Natural Resources and Environment (HCMUNRE)
- 22/09/2022 - The Copernicus Program: National Italian User Forum, THE AFRICA AEROSPACE AND DEFENCE EXHIBITION (AAD)
- 14/01/2022 - "Italian Rapid and Resilient Crisis Response system of the SNPC", ESA – ESRIN Workshop on the "Rapid and Resilient Crisis Response" Accelerator
- 22/05/2021 Venice Biennial Architecture 2021 How will we live together? Title: Copernicus DataFrame
- 20/05/2021 C3S General Assembly – ECMWF. Title: Copernicus Market Place – National Italian downstream activity in the Climate Change domain
- 13/04/2021 ASI - Hyperspectral Remote Sensing Workshop 2021: PRISMA Mission and beyond - Title: Methods for hyperspectral user community requirements definition
- 06/10/2020 CAMS USER WORKSHOP – ECMWF. Title: COMAP National Italian downstream activity
- 26/10/2019 St. John's College, University of Cambridge, Title: Environment and infrastructures: The role of Copernicus and Earth Observation in a Policy Context
- 03/10/2019 EEA – European Commission (Brussels): Copernicus land monitoring service coastal zones - user consultation meeting. Title: Institutional user needs for coastal zones: the Italian approach
- 02/10/2019 Mercator Ocean – European Commission (Brussels): COPERNICUS MARINE for MSFD. Title: EU Member State experience, needs and priorities in terms of Copernicus Marine data for MSFD: the case of Italy
- 18/07/2019 Science Collaboration TEAM of the NASA Jet Propulsion Laboratory, Ho Chi Minh University of Technology, VN Space Technology Application Center. Title: Improving Future Ecosystem Benefits through Earth Observations
- 11/07/2019 ESA – NASA Joint Meeting, Frascati International Cooperation in Spaceborne Imaging Spectroscopy. Title: CHIME project: potential value-added products of hyperspectral mission in the "Agriculture & food security" and "Raw materials exploration" application domain
- 17/01/2018 Egyptian- Italian workshop on Blue Economy – Biblioteca di Alexandria. Title: Maritime Spatial Planning and Integrated Coastal Zone Management in the Mediterranean
- 22/11/2017 DG GROW Space Week 2017: Copernicus International day. Title: Copernicus User Forum -The Support of Copernicus on Agricultural Policies: The Italian Case Studies
- 29/06/2017 European Commission DG Grow. Title: European Policy Perspective, Copernicus for coastal zone monitoring and management
- 11/10/2016 International Space Science Institute (ISSI), Bern, Switzerland KEY NOTE LECTURE. Title: Living deltas and use of EO data, 2016, ISSI FORUM "Monitoring coastal zones evolution under various forcing factors using space-based observing systems"

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