PERSONAL INFORMATION   Daniele Bailo

Gender Male| Date of birth 28/05/1978 | Nationality Italian

EDUCATION

19/12/2011   PhD in Material Science   ISCED 6

University "La Sapienza" of Rome.

Thesis: In-situ morphological/structural studies of polymeric films for Organic Photovoltaic Devices: bulk, surface and interface properties and aging effects.
"In-situ Structural/Morphological study of polymer-based active materials for Organic Photovoltaic devices: bulk, surface and interface properties and aging effects". (https://zenodo.org/record/46424)

- *Research Topics*: organic materials for photovoltaic applications (photovoltaic devices with active layer of P3HT: PCBM, PPV: PCBM, buffer layer PEDOT); materials for gas sensing applications: phtalocyanine (NiPc) and porphyrazine (Co-porphyrazine)
- *Used Techniques: X-ray diffraction in energy dispersion (reticular parameters, grain size) and X-ray reflectometry in energy dispersion (thickness, surface roughness and interface). AFM microscopy (surface morphology with quasi-atomic resolution).*
- *Coordinator:* Ruggero Caminiti, Rapporteur: Barbara Paci
- Research activity was carried out at the X-ray spectroscopy group of the CNR-Rome / Tor Vergata, Institute of Structure of Matter

University of Rome "La Sapienza" Piazzale Aldo Moro, 5, 00185 Rome (Italy)

29/05/2008   Qualification for Teaching Computer Science (A042) and Electronics (A034)

SSIS Lazio.

Qualification for teaching in the classes:

- Electronics A034 obtained with a 70/80 vote;

- Informatica A042 achieved with 73/80 vote

Traineeship report: "Hermeneutic teaching in technological teaching" related to experimentation of the hermeneutic teaching model

SSIS Lazio Via Ostiense, 169, 00154 Rome (Italy)

05/09/2005   Qualitification for Engineering Profession

University "Roma Tre" of Rome.

Qualification to the profession of Engineer obtained with a 78/120 mark

Roma Tre University
Via Ostiense, 159, 00154 Rome, Italy

30/09/2003   Degree in Computer Science and Engineering (Laurea Vecchio   ISCED-5B
Ordinamento in Ingegneria Informatica)

Master's Degree in Computer Engineering achieved with a 110/110 mark

Main subjects studied:
Mathematical analysis; Geometry; Linear algebra; Statistics; Probability calculation; Logic; Physics; Technical physics; Systems mechanics; Electrical; Economy; Programming;

Signal theory, electrical communication;
Artificial intelligence; Mathematical Logic, Operating Systems; Computer Graphics
Thesis:
"Optimization algorithms for the estimation of the movement of the human locomotor apparatus using the measure of the only binding reactions" (Movement Biomechanics).

University of Rome Tre
Via Ostiense, 159, 00154 Rome (Italy)

19/07/1997.	**High School Liceum diploma (Maturità Scientifica)**	ISCED 3A

Scientific maturity obtained with a 60/60 mark

Italian language and letters; Language and Latin letters; Language and foreign literature (English); History; Geography, Philosophy, Mathematics, Physics, Natural Sciences, Chemistry and Astronomical Geography, Drawing and History of Art, Physical Education.
I was an institute representative in the fifth year.

Scientific High School "G. Peano"
Via Francesco Morandini, 38, 00142 Rome (Italy)

1995 - 1997	**School of Popular Music of the Testaccio: Jazz Guitar**

PROFESSIONAL TRAINING   ■

11/10/2024	Course by INGV, "Come scrivere una proposta nel programma Infrastrutture di Ricerca di Horizon Europe, 4 hours, held by APRE
15/07/2024	Course by INGV "I segretari della Commissione dei concorsi pubblici", 4 hours
15/04/2024	Course by GARR "Intelligenza Artificiale e nuovo Regolamento Europeo" https://learning.garr.it/enrol/index.php?id=295#p1602
29/01/2024	Public Administration Certification in "Competenze digitali per la PA Conoscere le tecnologie emergenti per la trasformazione digitale" (ENGLISH " Digital skills for the Public Administration: Understanding emerging technologies for digital transformation.")
22/2/2022, 28/1/2022, 25/1/2022	FAIR Implementation Profiles (FIPs) Training Workshop, for the implementation of FAIR profiles on earth science services, 9 hours https://envri.eu/event/fip-workshops-making-the-envris-fip-for-purpose-through-fair-convergence/
From 14/05/2021 to 13/07/2021	English Language Course Darby School, Rome, Italy. English course attended at the Darby School, Rome, Italy. Achieved level: B2
5/02/2019	ENVRI FAIR training Training sessions within the ENVRI-WEEK event in Dresden, on the topics: FAIRness training and capacity building and First training event for data center staff: Terminologies for ENVRIs: Why, What & How, Dresden, 5/2/2019
19/02/2019	Health and safety in the workplace - general training, February 19, 2019, Training Provider: University of Urbino Carlo Bo, Art.3 agreement prot.n. 0036768/2018
From 28/04/2022 to 10/05/2022	Course "E-Learning course training worker safety - specific part low risk" Regarding typical risks in the ATECO sectors of the risk class. Duration: 4 hours.
12/9/2017	Training Sessions "VRE4EIC -> EPOS / ENVRI+" On the design and use of tools for implementing Virtual Research Environments (VRE), Rome, September 12, 2017, at INGV.
From 10/11/2015 to 13/11/2015	EGI Training Sessions on IT topics within the "EGI Community Forum". Course Topics: • Programming Distributed Computing Platforms with COMPSs • A Tutorial on Hybrid Data Infrastructures: D4Science as a case study

- NGS Data Analysis Training Workshop
- Running Chipster data analysis platform in EGI Federated Cloud
- Dos and Don'ts for Virtual Appliance Preparation -- Hands-on Tutorial
- Training workshop: "The EUDAT infrastructure: Foundation, utilization, and implementation"
- Tracking Dataset Transformations with HAPPI Toolkit
- Security training
- Introduction to the EGI Federated Cloud – the user perspective

EGI Community Forum 2015, November 10-13, 2015
https://indico.egi.eu/event/2544/page/21-tutorials

From 21/05/2015 to 22/05/2015

Course FitSM Foundation training in IT Service Management,
21-22 May – Lisbon. Final exam succesfully passed

31/03/2014

GSAC Workshop: GSAC Software Training
Training on the use of the GSAC software suite for the distribution of Geodetic data.

From 06/24/2009 To 06/27/2009

National School-Conference on Molecular Materials for Photonics and Electronics
Hybrid nanostructured systems based on organic, inorganic, and biological materials and devices. Arbatax, June 24-27, 2009.

WORKING EXPERIENCE

From 28/12/2018 to today

Technologist III Level – Permanent position
EPOS-ERIC Technical Officier

Istituto Nazionale di Geofisica e Vulcanologia – National Institute of Geophysics and Volcanology - EPOS Management Office ICT, Via di Vigna Murata, 605 - 00143 Rome, Italy Permanent employment with Decree 506 dated 20/12/2018 by Dr. Tullio Pepe (Prot Gen-U 0001381 dated 29/01/2019).

As a technologist, I have carried out **technical coordination** activities for international groups and provided training within the scope of **EPOS-ERIC** and the following projects: ENVRI, EUDAT, ENVRI PLUS, EPOS PP, EGI-ENGAGE, EPOS IP, VRE4EIC, EOSC-PILOT, EOSC-HUB, EPOS SP, ENVRI-FAIR, EOSC-FUTURE, GEO-INQUIRE, DT-GEO, Skill4EOSC.

These skills have been employed at the National Institute of Geophysics and Volcanology through my involvement in the activities of Functional Unit 3 – Databases, in the role of an expert in designing and implementing platforms for **data storage and sharing**, as well as an expert in **FAIR-compliant databases**. My work has increasingly focused on **Artificial Intelligence in Geosciences**, with special emphasis on data-intensive approaches.

I have devised an Agile method for the collaboration of international research and development groups, based on the shape-up methodology, and coordinated the work of the international working group of the **EPOS-ERIC Research Infrastructure** for 3 years, before transitioning to the role of **IT Officer**.

As the **EPOS IT Officer**, I am the responsible manager for **IT strategy and its execution** in EPOS ERIC. My duties encompass the development of strategic plans and overseeing the operationalization of the **EPOS Data Portal** (https://www.epos-eu.org/dataportal), which is the cornerstone of the **EPOS-ERIC initiative** engaging ten distinct solid Earth science communities and integrating data, software and services. Thanks to its open source distribution (https://epos-eu.github.io/epos-open-source/), the platform is used in other contexts, for instance for the development of the INGV Earth Sciences data portal in PNRR projects and for the development of the **ENVRI catalogue for Services** in the ENVRI HUB NEXT initiative.

In directing and managing such a complex **IT system**, I have gained knowledge and skills in **big data** systems and their deployment on cloud platforms using **Kubernetes and Docker**, with a foundational knowledge of other frameworks like OpenStack; I am proficient in the integration of **Authentication and Authorization platforms** based on the AARC blueprint architecture; in integrating different authentication standards (e.g., OAuth2, OpenID Connect); in **data integration** through metadata, semantics and web services, an innovative approach developed with the EPOS IT Team and published in peer-reviewed journals; in the usage of **HPC and cloud platforms** for **Virtual Research Environments (VREs)** and data-intensive applications.

I coordinate the development of **Virtual Research Environments** in the EPOS ERIC Data platform. These environments facilitate a comprehensive remote platform that manages the entire data lifecycle—from data production to analysis, modeling, visualization, and interpretation of outcomes.

As part of this activity, I am leading **experiments in AI and computational seismology using Deep Learning architectures**, such as **PhaseNet** for the automatic picking of seismic waveforms. In addition, I am actively exploring the use of **Large Language Models (LLMs) in Retrieval-Augmented Generation (RAG)** configurations to create **expert agents dedicated to the geosciences**. I currently coordinate **two research fellowships** on topics of **AI applied to geosciences**, one focused on deep neural networks and the other on generative models and RAG pipelines.

I serve on various **influential boards within EPOS**, ensuring comprehensive governance and strategic IT oversight. As a member of the IT Board, I manage the operational integrity of the data integration platform; on the Executive Committee, I support the executive director in decision-making processes; and as part of the Board of Officers, we tackle initiative challenges and devise operational solutions spanning governance, **IT strategies**, and **user engagement**.

Alongside my technical and research activities, I am committed to **scientific communication**. I have authored and co-authored several peer-reviewed publications and conference papers on research infrastructures, data science, and AI in Earth sciences. I also organized and chaired the first **AI Day @ INGV**, a national conference that brought together researchers, technologists, and administrators to share experiences and shape the future of AI within the institution.

From 13/02/2024 to 13/05/2024	## Teaching Assistant at LUISS

Luiss Guido Carli Viale Pola, 12 00198 Roma

Teaching support for the INFORMATICA (COMPUTER SCIENCE) Course Channel D (code 254) online or in person, according to the instructions of the University.

In this course, I guided the students of the 'Economics and Management' faculty through the practical application of Python for basic data science tasks. The curriculum laid the groundwork in Python programming and introduced the fundamentals of widely-used data science libraries, including Plotly, NumPy, and Pandas. The course culminated in the application of this knowledge to elementary data science challenges in Economics, illustrated through examples and straightforward class projects.

- Coordinated and continuous collaboration, in accordance with Article 409 of the Code of Civil Procedure, Article 2, paragraph 2, letter a) of Legislative Decree June 12, 2015, No. 81;

- In compliance with the current "National Collective Agreement for Collaborators of Non-State Universities" (ACNC) and the resolution of the Executive Committee of 10/6/2016.

- Prot. n. 2870/2023/DG/Persdoc/contract

From 1/03/2016 To 27/12/2018	## Technologist III Level - Temporary position

Istituto Nazionale di Geofisica e Vulcanologia – National Institute of Geophysics and Volcanology - EPOS Management Office ICT

Via di Vigna Murata, 605 - 00143 Rome, Italy

Renewal with Decree 159 dated 28/02/2017 by Dr. Maria Siclari (Prot Gen-U 0003294 dated 15/03/2017)

Hiring: Decree 105 dated 22/02/2016 by Dr. Massimo Ghilardi

2016/02 - Winner of a Selection (DD n. 399 dated 10/08/2015) Technologist Level III at the National Institute of Geophysics and Volcanology (ranked on http://bit.ly/DD-399)

2016/02 - Winner of a Selection (DD n. 400 dated 10/08/2015) Technologist Level III at the National Institute of Geophysics and Volcanology (ranked on http://bit.ly/DD-400)

During this period, activities focused on coordinating the technical group of EPOS for the development of the EPOS Data Portal within the framework of EPOS IP WP7 and other projects, utilizing the Agile Scrum method (as a product owner and Agile coach).

The ability to have an overview of different types of data and metadata from 10 different scientific communities (Seismology, Near-Fault Observatories, GNSS Data and Products, Volcano Observations, Satellite Data, Geomagnetic Observations, Anthropogenic Hazards, Geological Information and Modeling, Multi-Scale Laboratories) allowed me to contribute to the extension of a metadata standard for the representation of assets in research infrastructures: DCAT-AP extended

as EPOS-DCAT-AP.

Furthermore, the knowledge of different contexts converged in the design and coordination of developments of a microservices system for the integration of distributed data of various nature (geolocated, non-geolocated, and waveform).

Activities during this three-year period included training, presenting results at international conferences, and publishing scientific articles in peer-reviewed journals.

Other Projects

- Maintenance of the website www.chiaracorbellapetrillo.it Technologies used: WordPress, PHP, JavaScript/jQuery, WordPress plugins (Comet Cache & performance plugins)
- Maintenance of the personal website www.danielebailo.it

From 1/08/2012 to 29/02/2016	**Technical Collaborator Research Institutions - CTER VI Level Temporary position**

Istituto Nazionale di Geofisica e Vulcanologia – National Institute of Geophysics and Volcanology - EPOS Management Office ICT

Via di Vigna Murata, 605 - 00143 Rome, Italy

Renewal with Decree 112 dated 09/04/2015 by Dr. Massimo Ghilardi (Prot Gen-U 0006737 dated 17/04/2015)

Renewal with Decree 127 dated 07/04/2014 by Dr. Massimo Ghilardi (Prot Gen-U 0006588 dated 14/04/2014)

Renewal with Decree 229 dated 11/07/2013 by Dr. Massimo Ghilardi

Hiring: Decree 403 dated 25/07/2012 by Dr. Stefano Gresta

Activities focused on the development and coordination of solutions for Authentication, Authorization, Accounting (AAA) systems and EGI software products management. Creation of the RESTful web service "CERIF XML" using Eclipse environment, Tomcat, Java, Java XML notation, JAXB, JAX-RS, Jersey, Maven, CERIF database, Postgresql, SENCHA. Preparation of abstracts and scientific articles describing the e-Infrastructure of the EPOS project. Development and maintenance of the "EPOS RIDE database" information system www.epos-eu.org/ride..

From 15/07/2011 To 14/07/2012	**CO.CO.CO contract**

National Institute of Geophysics and Volcanology – EPOS Management Office ICT Via di Vigna Murata, 605 – 00143 Rome, Italy

Protocol 7860 of 12/07/2011

Development of open-source web applications using "Web 2.0 technologies":

• Non-relational databases (CouchDB)

• JavaScript plugins and frameworks (jQuery, backbone.js, node.js, underscore.js, etc.)

• Google Maps/Earth API

• HTML5 and CSS

Development of a database for research facilities (RIDE database, www.epos-eu.org/ride), which includes data storage, insertion, and update functions, as well as the visualization of the infrastructures on maps and the ability to perform data statistics.

Participation in international meetings related to the project topics (international research projects, ICT themes).

From 04/4/2012 To 07/3/2012	**Postdocs**

CNR – Institute of Structure of Matter, Research Area of Rome 2,

Via del Fosso del Cavaliere, 100, 00133 Rome (Italy)

Protocol n.0000809 of 04/04/2012

Designing, implementing, and maintaining calculation and data acquisition programs through various peripherals (X-ray detectors, multimeters, flow meters, and others).

From 1/01/2011to 8/07/2011	**Teacher in "Secondary School, class A042"**

Istituto Tecnico Commerciale Arangio RuizViale Africa 109, 00144, Rome, Italy

Recruitment ID: protocol 175/FPRenewal ID: protocol 344/FPRenewal ID: 3519/FP

Teaching of the subject Computer and Systems, class A042, in a class V.

From 04/14/2010 To 09/13/2010	**Temporary contract**

CNR – Istituto di struttura della MateriaArea della Ricerca di Roma 2Via del Fosso del Cavaliere, 100, 00133 Rome (Italy)
Protocol n.0000809 of 04/04/2012
 Development and implementation of the client / server computer system for the acquisition of instrumental and environmental data of the laboratory and remote control (also via web) of all the equipment; in the LabVIEW environmentW

From 1/11/2008 to 31/10/2011	**PhD in Material Science**

University of Rome "La Sapienza"Piazzale Aldo Moro, 5, 00185 Rome (Italy)
I have collaborated in the research activity concerning the study and improvement of organic photovoltaic materials in the form of thin film.
DOCTORAL THESIS
   "In-situ Structural / Morphological study of polymer-based active materials for Organic Photovoltaic devices: bulk, surface and interface properties and aging effects." (Available at https://zenodo.org/record/46424)

12/11/2007	**Temporary contract**

Italian Christian Workers' Associations (ACLI), Via Prospero Alpino, 20 00154, Rome, Italy

Development of an Internet site for the Granelli di Senapa project.
   Framework Used "Wordpress", with modifications and code upgrades in php.

From 08/1/2005 To 09/30/2008	**PostDoc (Research Grant) in material Science**

CNR – Istituto di struttura della Materia Area della Ricerca di Roma 2Via del Fosso del Cavaliere, 100, 00133 Rome (Italy)
Renewal: prot 0001096 of 25/07/2008
Renewal: prot 0001109 of 20/07/2007
Renewal: prot 0000638 of 11/05/2007
Renewal: prot 0000433 del 04/04/2007
Renewal: prot 0000862 of 28/07/2006
Renewal: prot 000133 of 17/02/2006
Winner Cheque with prot 000406 of 27/07/2005
I supervised and developed the computer components (both hardware and software) of the X-ray research laboratory;
I developed and implemented the client / server computer system for the acquisition of instrumental and environmental data of the laboratory and remote control (also via web) of all the equipment; in the LabVIEW environment
Design and implementation of calculation and data acquisition programs using various peripherals (X-ray detectors, multimeters, flow meters and others).
Creation of a laboratory network
   I supported the researchers during the research on the structure of materials, in particular the one concerning the characterization of the material topology by means of X-ray scattering of energy

ACTIVITIES AND ROLES

SCIENTIFIC ACTIVITIES

30/09/2024	Elsevier "SoftwareX" Journal - Completed a manuscript review assignement
30/08/2024	Open Research Europe – Completed a manuscript review assignement
25/05/2024	Nature Scientific Data - Completed a manuscript review assignment
19/04/2024	Cogent Education - Completed a manuscript review assignment
27/02/2024	Nature Scientific Data - Completed a manuscript review assignment
10/10/2023	Transactions in GIS - Completed a manuscript review assignment
11/09/2023	Data Science Journal - Completed a manuscript review assignment

From 12/07/2023 to today	Member of Industry Users Board (IUB) of the Center of Excellence for Exascale in Solid Earth - Second Phase - ChEESE-2P
From 25/08/2022 to today	Member of the Editorial Board of Frontiers in Environmental Science. Environmental Informatics and Remote Sensing, as per communication received on 19/09/2022
6/6/2022	Nature Scientific Data - Completed a manuscript review assignment
From 13/10/2021 to today	Member of the "EOSC TF on Technical Interoperability of Data and Services" within the European Open Science Cloud
From 1/02/2020 - current	Coordinator of the "EPOS-ERIC IT Board" group in the framework of the activities of EPOS-ERIC for IT strategic development and management and of the EPOS data portal
11/10/2021	Data Intelligence - Completed a manuscript review assignment
28/09/2021	15th International Conference on Current Research Information Systems (CRIS2022) - Served as a Program Committee member and reviewed 4 abstracts
1/04/2022	Annals of Geophysics - Completed a manuscript review assignment.
From 16/11/2020 to 14/06/2021	Co-supervisor of the student Andrea Orfino for the master's degree in Computer Engineering at the University of Rome 3. Title obtained a.y.2019/2020 on 14/06/2021. Start of internship November 2020
From 06/07/2020 to 31/08/2020	External auditor of project proposals submitted within the framework of "BRAIN-be 2.0 research programme, of the Belgian Science Policy Office (BELSPO)" on GNSS and Satellite Data
From 7/02/2020 to 20/02/2020	Evaluator for Research Data Alliance (RDA) in the framework of the call "RDA EU 4.0 - Evaluation of Early Careers & Experts for P15"
From 13/09/2019 to 23/09/2019	Evaluator for Research Data Alliance (RDA) in the framework of the call "RDA EU 4.0 - Evaluation of Call for new RDA nodes 3rd wave"
From 13/06/2019 to 24/06/2019	Evaluator for Research Data Alliance (RDA) in the framework of the call "RDA EU 4.0 - Evaluation of Call for Ambassadors"
From 12/03/2019 to 25/03/2019	Evaluator for Research Data Alliance (RDA) in the framework of the call "RDA EU 4.0 - Evaluation of Call for Europe adoption Grants"
From 1/02/2019 to 26/02/2019	Evaluator for Research Data Alliance (RDA) in the framework of the call "RDA EU 4.0 - Evaluation of Early Careers for P13"
From 23/09/2019 to 15/10/2019	External auditor of project proposals submitted under the "BRAIN-be 2.0 research programme, of the Belgian Science Policy Office (BELSPO)" on Oceanographic and GNSS
From 20/12/2019 to 23/03/2020	Evaluator for the ACTRIS project. " ACTRIS Central Facility validation: Data Centre ".
From 23/10/2019 to 21/10/2020	Co-supervisor of the student Narges Behesti for the master's degree in Computer Science at La Sapienza in Rome, entitled " Prototype of an Innovative Rich Client Desktop Application Integrating Multi-Disciplinary Solid Earth Data"
From 18/01/2018 to 18/01/2018	Program Committee member in 3rd IT4RIs: Interoperable infrastructures for interdisciplinary big data sciences- Time critical applications and infrastructure optimization, Science Park Amsterdam, Amsterdam, Netherlands, January 18, 2018 (https://easychair.org/cfp/IT4RIs18)
From 3/06/2017 to 13/08/2022	Invited Expert in the W3C consortia in "Dataset Exchange Working Group", https://www.w3.org/groups/wg/dx
From 01/01/2016 to 31/12/2020	Member of the external Advisory Board of the EPOS-Norway project, (Nasjonal satsing på forskningsinfrastruktur 2014 - project no.: 245763) Funded by Research Council of Norway (RCN)
01/06/2016	Program Committee member in the 13th International Conference on Current Research Information Systems (CRIS2016)
From 30/11/2016 to 1/12/2016	Program Committee member for the W3C Smart Descriptions & Smarter Vocabularies (SDSVoc) workshop 30 November - 1 December, CWI, Amsterdam Science Park (https://www.w3.org/2016/11/sdsvoc/program)
From 15/03/2016 to 20/03/2016	Program Committee member at the IoTBD 2016 conference (International Conference on Internet od Things and Big Data), 23-25 April 2016 (https://iotbds.scitevents.org/ProgramCommittee.aspx?y=2016)
12/06/2015	INGV Technical Reports - Completed a manuscript review assignement, as per communication received from the editorial Editorial Board on 12/06/2015

Institutional Assignments

From 01/06/2023 to 31/10/2024	Assignment for the development of the software for the management of missions at the section of Roma1, (assegnazione incarico per lo sviluppo del software per la gestione delle missioni presso la sezione di roma1), Prot.N.0028192/2024 of 12/12/2024
From 01/04/2021 to 17/10/2024	Certification of Service as EPOS ERIC IT Officer and member of the Executive and Coordination Office of EPOS ERIC. issued by the EPOS ERIC Executive Director Carmela Freda, Protocollo 0027122 in data 30/10/2024
From 01/04/2021 to 17/10/2024	Letter of Commendation for exceptional performance and invaluable contributions as IT Officer at the Executive Coordination Office (ECO) of EPOS, issued by the EPOS ERIC Executive Director Carmela Freda. Protocollo n. 0027119/2024 in data 30/10/2024
From 01/11/2018 to 31/03/2021	Certification of Service as EPOS ERIC IT Officer and member of the Executive and Coordination Office of EPOS ERIC. issued by the EPOS ERIC Executive Director Massimo Cocco, Protocollo 0028178/2024 iin data 11/11/2024
From 01/11/2018 to 31/03/2021	Letter of Commendation for exceptional performance and invaluable contributions as IT Officer at the Executive Coordination Office (ECO) of EPOS, issued by the EPOS ERIC Executive Director Massimo Cocco. Protocollo n. Prot.N.0028177/2024 del 11/11/2024
22/01/2024	Member of the examining commission for the public selection of n. 2 (two) research grants of the "professionalizing" type entitled "study and implementation of data integration systems including the use of artificial intelligence algorithms applied to multidisciplinary open data in solid earth sciences on the epos platform" within the epos mur infrastructure - call 2/2024 roma1". -Call code BANDO ROMA1 N. 9/2023, as per decree of section/managers/directors n. 70 dated 22/01/2024 with number 0002039 on 22/01/2024 15:46:40" – Commission appointment DECRETO ROMA1 N. 2752/2023 - NOMINA COMMISSIONE
01/12/2023	Member of the examining commission for the public selection "bando di concorso pubblico, per titoli ed esami, per l'assunzione a tempo indeterminato di n. 8 (otto) unità di personale nel profilo professionale di collaboratore tecnico degli enti di ricerca - vi livello retributivo presso l'istituto nazionale di geofisica e vulcanologia da destinare a vari sedi dell'istituto – Call code 8CTER-VS-04-2023 - profilo B))" – Commission appointment as per decree of Director General n. 1071 of 01/12/2023
29/09/2023	Member of the examining commission for the public selection "concorso pubblico, per titoli e colloquio, per l'assunzione a tempo determinato di n. 4 unità di personale nel profilo professionale di collaboratore tecnico degli enti di ricerca - vi livello retributivo presso l'istituto nazionale di geofisica e vulcanologia da destinare a varie sedi dell'istituto – Call code 4CTER-VS-07-2023 - profilo A, number 0025330 of 02/10/2023 10:15:37 - – Commission appointment as per decree of Director General n. 841 of 29/09/2023
04/03/2022	Member of the examining commission for the public selection, by qualifications and interview, for the temporary position of n. 1 unit of staff in the professional profile of Technical Collaborator of Research Institutions – VI salary level at the National Institute of Geophysics and Volcanology to be allocated to technical support activities of the Operations Room of the National Earthquake Observatory of Rome – Call Code 1CTER-ONT-12-2021. (prot. 0004868 on 04/03/2022 10:12:59)
18/05/2022	Member of the examining commission for the public selection, by qualifications and interview, for the temporary position of n. 4 units of staff in the professional profile of Technical Collaborator of Research Institutions – VI salary level at the National Institute of Geophysics and Volcanology to be allocated to the Rome 1 Section and to the National Earthquake Observatory – Ancona branch office - Call Code 4CTER-RM1ONT-03-2022 - profile letter A) (prot. number 0012208 on 18/05/2022 11:49:13)
From 01/01/2022 to 31/12/2025	Appointment of IT Officer in EPOS-ERIC, as per Resolution no. 262/2021 20 December 2021 Annex M to Minutes no. 07/2021 Role: IT Officer (executive responsible for IT strategy and implementation)
19/10/2021	Member of the examining commission for the public selection, by qualifications and interview, for the temporary position of n. 4 units of staff in the professional profile of Technical Collaborator of Research Institutions – VI salary level at the National Institute of Geophysics and Volcanology, Thematic Area: "Informatics and Geophysical Technologies" – Call Code 4CTER-ONT-04-2021. Decree no. 58/2020 Rome 1) (prot. 0020801 on 19/10/2021 16:35:08)
15/06/2021	Member of the examining commission for the selection of a research grant at the Roma1 Section, within the VRE4EIC project, prot. n. 0011682 of 15.06.2021 (Decree n. 58/2020 Rome 1) (prot. 0020801 on 19/10/2021 16:35:08)

From 1/01/2021 to 31/12/2022	Appointment as IT Officer in EPOS-ERIC, as President's Decree no. 93/2020 of 29/12/2020, concerning: "Assignment of "in-kind" personnel for the year 2021 in favor of EPOS ERIC". Protocol No 2020/0016870 Role: IT Officer (executive responsible for IT strategy and implementation)
From 29/05/2020 to today	Member of the working group for the management and development of activities related to the collection of large amounts of data of Section Rome 1, as per Decree no. 58/2020
From 1/1/2020 to 31/12/2020	Appointment as Technical Officer in the EPOS-ERIC office, as per Resolution no. 20/2020 Annex D to minutes no. 01/2020: "Conferral of in-kind personnel for the year 2020, in favor of EPOS ERIC", Protocol no. 313 of 31/01/2020 Role: IT Officer (executive responsible for IT strategy and implementation)
06/06/2019	Member of the examining commission for the public selection, by qualifications and interview, for the temporary position of 1 position as Technical Collaborator of Research Institutions – VI salary libellus, fixed-term at the National Institute of Geophysics and Volcanology – Section Rome 1 – Thematic area: "IT services administrator" – Call code: 1CTER-RM1-04-2019 / B (prot. N. 0008284 of 06/06/2019, decree n.244 of 06/06/2019)
07/06/2019	Member of the examining commission for the public selection, by qualifications and interview, for the temporary position of 1. Position of Technical Collaborator of Research Institutions – VI salary libellum, fixed-term at the National Institute of Geophysics and Volcanology – Section Rome 1 – Thematic area: "Multiparametric data processing and management in Cloud" – Call code: 1CTER-RM1-04-2019 / A (prot. N. 0008332 of 07/06/2019, decree n.243 of 06/06/2019)
4/10/2019	President of the examining commission for the public selection, by qualifications and interview, for the temporary position of 1. Position as Technical Collaborator of Research Institutions - VI fixed-term salary libellus at the National Institute of Geophysics and Volcanology - Rome Section 1 - Thematic area: "IT Services Administrator" - Call code: 1CTER-RM1-04-2019 / B (Published in the Official Gazette n.79 of 04.10.2019)
From 1/1/2019 to 31/12/2019	Appointment of IT Officer in EPOS-ERIC, as per Resolution no. 725/2018 Annex K to minutes no. 10/2018 Collaboration agreement between INGV and EPOS ERIC Protocol no. 0000319 of 09/01/2019 Role: IT Officer (executive responsible for IT strategy and implementation)
From 14/11/2017 to today	Appointment of Supervisor "preposto" as per art.2 lett.e) of Legislative Decree 81/08, and as clarification provided by the Roma 1 secretariat on 4 Nov 2017, 16:31by dott.ssa Vallati Role: Supervisor
29/07/2016	Member of the examining commission for the public selection, by qualifications and interview, for the temporary position as "1 position of Technical Collaborator of Research Institutions - VI salary level, fixed-term at the National Institute of Geophysics and Volcanology - Section Roma1- Thematic area: "Computer Science" - Call n. 10-RM1-6-16 (Official Gazette no. 60 of 29/07/2016)
29/07/2016	Member of the examining commission for the public selection, by qualifications and interview, for the temporary position for "1 position of Technologist - III salary level, fixed-term at the National Institute of Geophysics and Volcanology - Section Roma1 - Thematic area: "Informatics" - Call n. 9-RM1-6-16 (Official Gazette n. 60 of 29/07/2016)"
29/07/2016	Member of the examining commission for the public selection, by qualifications and interview, for the temporary position for "1 post of Technical Collaborator of Research Institutions - VI salary level, fixed-term at the National Institute of Geophysics and Volcanology - National Earthquake Center - Ancona Headquarters - Thematic area: "Multidisciplinary data" - Call n. 5-CNT-6-16 (Official Gazette no. 60 of 29/07/2016)"
13/10/2015	Member of the examining commission for the public selection, by qualifications and interview, for the temporary position for a contract for the provision of work under coordinated and continuous collaboration at INGV, sec. roma1, on EPOS IP funds, prot n 0016352 of 22/09/2015, as per decree no. 74/2015

Project assignments

From 01/02/2024 to 30/01/2027	INGV Scientific Corrdinator (Principal Investigator) of the **ENVRI-HUB-NEXT** project (ENVironmental Research Infrastructures delivering an open access Hub and NEXT-level interdisciplinary research framework providing services for advancing science and society), Grant Agreement No. 101131141, HORIZON-INFRA-2023-DEV-01-04. Role: Scientific Coordinator (Principal Investigator).

From 01/09/2022 to 31/08/2025	Project "**SKILLS4EOSC**" (Skills for the European Open Science Commons: Creating a Training Ecosystem for Open and FAIR Science). Grant Agreement No. 101058527. HORIZON-INFRA-2021-EOSC-01. Role: co-investigator.
From 01/09/2022 to 29/02/2024	INGV Scientific Coordinator (Principal Investigator) of the **GREAT** project "The Green Deal Data Space Foundation and its Community of Practice" (grant agreement 101058129). Role: Scientific Coordinator (Principal Investigator).
From 1/10/2022 to 30/09/2026	Leader of Work Package 6 "Access and harmonization of integrated research infrastructures services for next gen- eration data, services, and products" in the **GEO-INQUIRE Project** (grant agreement 101058518). Role: Work Package Leader.
From 1/09/2022 to 31/08/2025	Task Leader 2.6 "Identification and metadata preparation of architectural components of the workflows" in Work Package 2 of the **DT-GEO Project** (grant agreement 101058129). Role: Task Leader.
From 01/02/2020 to 30/04/2023	Project "**EPOS SP**" (European Plate Observing System Sustainability Phase). Grant Agreement No. 871121. H2020-INFRADEV-2019-2. Role: co-investigator.
From 1/01/2019 to 30/06/2023	Leader of Task 10.2 "Harmonised definition and harmonised implementation of FAIR principles at sub-domain level", in the framework of Work Package 10 of the **ENVRI-FAIR** Grant agreement ID: 824068 Role: Task Leader
From 1/01/2019 to 30/06/2023	Leader of Task 10.1 "Harmonised analysis of FAIR principles at subdomain level", in the framework of Work Package 10 of the **ENVRI-FAIR** project Grant agreement ID: 824068 Role: Task Leader
From 1/01/2019 to 30/06/2023	Leader of the TF2 Task Force "Authentication Authorization Accountiing Infrastructure" in the framework of Work Package 5 of the **ENVRI-FAIR** Grant agreement ID: 824068 Role: Task Force Leader
From 1/01/2019 to 30/06/2023	Leader of the TF1 Task Force "ENVRI Catalogue of Services" in the framework of Work Package 5 of the **ENVRI-FAIR** project Grant agreement ID: 824068 Role: Task Force Leader
From 1/01/2019 to 30/06/2023	Member of the Executive Board of the **ENVRI-FAIR** Grant agreement ID: 824068 Role: Executive Board Member
From 1/01/2019 to 30/06/2023	Co-leader of Work Package 7 "Common implementation and support" in the framework of the **ENVRI-FAIR** Project Grant agreement ID: 824068 Role: co-lead
From 1/01/2019 to 30/06/2023	Co-leader of Work Package 10 "Solid Earth subdomain implementation" in the framework of the **ENVRI-FAIR** Project Grant agreement ID: 824068 Role: co-lead
From 01/04/2021 to 31/10/2023	Participation in Work Package 3 of the **EOSC-FUTURE** PROJECT (EU Grant Number 101017536) Role: co-investigator
From 01/01/2018 to 31/12/2020	Participation in Work Package 8 of the **EOSC-HUB PROJECT** (EU Grant Number 777536) Role: co-investigator
From 01/01/2017to 31/12/2018	Participation in Work Package 6 of the **EOSC-PILOT PROJECT** (EU Grant Number 739563) Role: co-investigator
From 1/10/2015 to 30/09/20019	Co-Leader of Work Package 7 in the **EPOS IP Project** (EU Grant Number 676564) Role: co-lead
From 1/10/2015 to 30/09/2018	Member of the Project Executive Board of the **project VRE4EIC** (A Europe-wide Interoperable Virtual Research Environment to Empower Multidisciplinary Research Communities) - partially funded by the European Union's Horizon 2020 research and innovation programme under grant agreement No. 676247
From 01/10/2015 to 30/09/2018	INGV Scientific Coordinator (principal investigator) of the **VRE4EIC** project (EU Grant number 676247), CUP CODE: D58F15001310002, DG DECREE N.185/21 Role: INGV Scientific Coordinator (Principal Investigator)
From 01/11/2013 to 30/10/2014	Participation in Work Package 10 of the **EPOS** Preparatory Phase project (EU Grant Number 262229) Role: co-investigator

From 01/05/15 to 31/07/19	Participation in Work Package 8 of the **ENVRI PLUS project**, (EU Grant number 654182) Role: co-investigator
From 01/03/2015 to 31/08/2017	INGV Scientific Coordinator (principal investigator) of the **EGI-ENGAGE** project (EU Grant number 654182), CUP CODE: D58F15001320002, DG DECREE N.274/21 Role: INGV Scientific Coordinator (Principal Investigator)
From 01/08/12 to 31/03/15	Participation in Work Package 6 of the **EUDAT** project, (grant agreement ID: RI-283304) Role: co-investigator
From 01/08/12 to 31/10/14	Participation in Work Package 4 of the **ENVRI project**, (EU Grant number 283465) Role: co-investigator

Teaching

11/01/2024	Trainer in the Open Science Café event. "EPOS Data Portal: i principi FAIR nelle Scienze della Terra Solida", Daniele Bailo, Massimo Cocco, Federica Tanlongo https://learning.garr.it/enrol/index.php?id=270
From 26/09/2022 to 30/09/2022	Lecturer at the event "Training Redi", "Disaster management and natural disaster risk reduction: a multidisciplinary training Camerino, 26 - 30 September 2022" with the speech "Presentation of the EPOS portal – Dr. Daniele Bailo, European Plate Observing System"
1/12/2021	Teaching assignment in the course "Practicing Open Science in Earth and Environmental Sciences" to learn about the principles of open science and deepen specific aspects and tools for Earth and Environmental Sciences, organized by OpenAIRE, https://www.openaire.eu/item/praticare-l-open-science-nelle-scienze-della-terra-e-dell-ambiente
16/12/2018	Teaching assignment at Training Provenance Tracing in ENVRI Research Infrastructures workshop, The EPOS Approach using the main catalogue – Daniele Bailo, Keith Jeffery https://envri.eu/training-provenance-tracing-in-envri-research-infrastructures/
From 5/10/2021 to 6/10/2021	"Contributo nel workshop ICT INGV 2021, Rome, 05 - 06 October 2021, "EPOS Data Portal – una piattaforma FAIR per l'accesso a dati e servizi multidisciplinari delle Scienze della Terra solida"
From 1/01/2011 to 8/07/2011	Teacher of Secondary School, Istituto Tecnico Commerciale Arangio Ruiz, Teaching of Computer Science and Systems, class A042, at a class V.

Other activities and assignments

12/11/2007	Creation of the website for the Granelli di Senapa project. Framework Used "Wordpress", with changes and upgrades of the code in php.
Year 2002	Collaboratore di Laboratorio informatico at Università degli Studi Roma Tre Via Ostiense, 159, 00154 Roma, Italy
Year 2000	Collaboratore di Laboratorio informatico at Università degli Studi Roma Tre Via Ostiense, 159, 00154 Roma, Italy
03/04/2000	Collaborator with Rivista Online HTML.it for the writing of articles on PERL language

Scientific contributions and experiences

Memberships

- *REVIEW EDITOR ON THE EDITORIAL BOARD of Environmental Informatics and Remote Sensing 2022*

- *EGI-ENGAGE Project Management Board, 2015-2018*

- *W3C INVITED EXPERT Invited expert on Dataset Exchange Working group, 2017-2022*

- *AMERICAN GEOPHYSICAL UNION Member 2019*

- *ENVRI-FAIR, EB - Executive Board Member, 2019-2022*

- *EPOS-NORWAY PROJECT, External Advisory Board Member, 2016-2020*

- *EUROCRIS, Ordinary Member since 2012*

- *EUROPEAN GEOPHYSICAL UNION, Complimentary Member 2012,2013,2014,2015, 2019*

- *EOSC TF on Technical Interoperability of Data and Services, 2021-2022*

- *EPOS IT BOARD, from 2018 to today*

Main bibliometric indicators

- Scopus H-Index: **8** (https://www.scopus.com/authid/detail.uri?authorId=57194540419 , updated 19/01/2023).

- Google Scholar H-Index: **11** (https://scholar.google.it/citations?user=-bX_yVsAAAAJ&hl=it&authuser=1, updated 19/01/2023).

- ResearchGate H-Index: **9** (https://www.researchgate.net/profile/Daniele-Bailo, updated 19/01/2023).

Publications in national and international journals (peer-reviewed)

2024

- 2024   Bailo, D, Paciello, R, Michalek, J, Mercurio, D, Sangianantoni, A, Contell, KS, Lange, O, Maracchia, G, Atakan, K, Jeffery, KG and Freda, C., **Data Management in Distributed, Federated Research Infrastructures: The Case of EPOS.** Data Science Journal, 23: 5, pp. 1–17. DOI: https://doi.org/10.5334/dsj-2024-005

2023

- 2023   Bailo, D., Paciello, R., Michalek, J., Cocco, M., Freda, C., Jeffery, K., Atakan, K., **The EPOS multi-disciplinary Data Portal for integrated access to solid Earth science datasets.** Sci Data 10, 784 (2023). https://doi.org/10.1038/s41597-023-02697-9

2022

- 2022 D. Bailo, R. Paciello, J. Michalek, D. Mercurio, A. Sangianantoni, K. Saleh Contell, O. Lange, G. Maracchia, K. Atakan, K. G. Jeffery, C. Freda, "***Data management in distributed, federated Research Infrastructures: the case of EPOS***", in Data Science Journal, special issue: Data Management Planning across Disciplines and Infrastructures, **submitted** on 15/12/2022 [Impact Factor (2021): 1.185 (https://academic-accelerator.com/)]

- 2022 Bailo D, Jeffery KG, Atakan K, Trani L, Paciello R, Vinciarelli V, Michalek J, Spinuso A ***Data integration and FAIR data management in Solid Earth Science***. Ann. Geophys. [Internet]. 2022Apr.29.
  [*Impact Factor (2021): 1,139* (https://jcr.clarivate.com/)]

- 2022 Saleh Contell K, Karlzén K, Cocco M, Pedersen HA, Atakan K, Bailo D, Lange O, Mercurio D, Maracchia G, Piras D, Sangianantoni A, Fredella M, Freda C., ***Long-term sustainability of a distributed RI: the EPOS case.*** Ann. Geophys. [Internet]. 2022Apr.29 [cited 2022May3];65(2):D M209. [*Impact Factor (2021): 1,139* (https://jcr.clarivate.com/)]

- 2022 Cocco M, Freda C, Atakan K, Bailo D, Saleh-Contell K, Lange O, Michalek J. ***The EPOS Research Infrastructure: a federated approach to integrate solid Earth science data and services***. Ann. Geophys. [Internet]. 2022Apr.29 [cited 2022May3];65(2):D M208. [*Impact Factor (2021): 1,139* (https://jcr.clarivate.com/)]

- 2022 Alessandro Spinuso, Mats Veldhuizen, Daniele Bailo, Valerio Vinciarelli, Tor Langeland; ***SWIRRL. Managing Provenance-aware and Reproducible Workspaces***. Data Intelligence 2022; Doi: https://doi.org/10.1162/dint_a_00129

[Journal Citation Indicator (JCI): 1.05 (https://jcr.clarivate.com/)]

2020

- 2020 Romain David, Laurence Mabile, Alison Specht, Sarah Stryeck, Mogens Thomsen, Mohamed Yahia, Clement Jonquet, Laurent Dollé, Daniel Jacob, Daniele Bailo, Elena Bravo, Sophie Gachet, Hannah Gunderman, Jean-Eudes Hollebecq, Vassilios Ioannidis, Yvan Le Bras, Emilie Lerigoleur, Anne Cambon-Thomsen, The Research Data Alliance – SHAring Reward and Credit (SHARC) Interest Group *FAIRness Literacy: The Achilles' Heel of Applying FAIR Principles.* Data Science Journal, 19(1), 32. DOI: http://doi.org/10.5334/dsj-2020-032
[Impact Factor (2021): 1,185 (https://academic-accelerator.com/)]

- 2020 Bailo D., Paciello R., Sbarra M., Rabissoni R., Vinciarelli V., Cocco M. *Perspectives on the Implementation of FAIR Principles in Solid Earth Research Infrastructures*. Frontiers in Earth Science, Vol.8, 2020, DOI 10.3389/feart.2020.00003, ISSN 2296-6463
[Impact Factor (2021): 3,661 (https://jcr.clarivate.com/)]

2019

- 2019 Remy, L., Ivanović, D., Theodoridou, M., Kritsotaki, A., Martin, P., Bailo, D., Sbarra, M., Zhao, Z. and Jeffery, K. *Building an integrated enhanced virtual research environment metadata catalogue*. The Electronic Library, (2019). https://doi.org/10.1108/EL-09-2018-0183
[Impact Factor (2021): 1.675 (https://jcr.clarivate.com/)]

2018

- 2018 Luca Trani, Malcolm Atkinson, Daniele Bailo, Rossana Paciello, Rosa Filgueira *Establishing Core Concepts for Information-Powered Collaborations*, Future Generation Computer Systems, Volume 89, 2018, Pages 421-437, ISSN 0167-739X, https://doi.org/10.1016/j.future.2018.07.005.
[Impact Factor (2021): 7,307 (https://jcr.clarivate.com/)]

2013

- 2013 B. Paci, D. Bailo, V. Rossi Albertini, J. Wright, C. Ferrero, G. D. Spyropoulos, E. Stratakis, E. Kymakis, *Spatially-Resolved In-Situ Structural Study of Organic Electronic Devices with Nanoscale Resolution: The Plasmonic Photovoltaic Case Study*, Advanced Materials Volume 25, Issue 34, pages 4760–4765, September 14, 2013
[Impact Factor (2021): 32,086 (https://jcr.clarivate.com/)]

2012

- 2012 D.Bailo, A.Generosi,V. Rossi Albertini,R.Caminiti,R.De Bettignies,B.Paci, *Time-resolved morphological study of 'PEDOT:PSS' hole transporting layer for polymer solar cells*, Synthetic Metals Volume 162, Issues 9–10, June 2012, Pages 808-812
[Impact Factor (2021): 4,000 (https://jcr.clarivate.com/)]

- 2012 V. Rossi Albertini, D. Bailo, A. Generosi, B. Paci, *A hybrid Angular/Energy Dispersive method to improve some characteristics of laboratory X-ray diffraction*, Modern Instrumentation, 1 (2012) 1-7
[Impact Factor (2021): 0.67 (https://www.scirp.org/journal/indexing.aspx?journalid=787)]

2011

- 2011 B. Paci, A. Generosi, D. Bailo, R. Caminiti, R. de Bettignies, V. Rossi Albertini, *Structural/morphological monitoring approach to stability and durability issues of*

photoactive films for organic solar cells, Chemical Physics Letters (2011)
[Impact Factor (2021): 2,719 (https://jcr.clarivate.com/)]

- 2011 B. Paci, G. D. Spyropoulos, A. Generosi, D. Bailo, V. Rossi Albertini, E. Stratakis, E. Kymakis., *Enhanced Structural Stability and Performance Durability of Bulk Heterojunction Photovoltaic Devices Incorporating Metallic Nanoparticles* ADVANCED FUNCTIONAL MATERIALS, vol. 21 (2011); pp. 3573-3582
[Impact Factor (2021): 19,924 (https://jcr.clarivate.com/)]

2010

- 2010 P. Escarate, A. R. Guesalaga, V. Rossi Albertini, D. Bailo, *Assessment of Three Spectroscopic Techniques for Rapid Estimation of Calcite in Copper Ore*, Instrumentation and Measurement, IEEE Transactions on July 2010 Volume: 59 Issue: 7 pag. 1911 – 1917
[Impact Factor (2021): 5,332 (https://jcr.clarivate.com/)]

- 2010 B. Paci, A. Generosi, D. Bailo, V. Rossi Albertini, R. de Bettignies, *Discriminating bulk, surface and interface aging effects in polymer-based activ materials for efficient photovoltaic devices*, Chemical Physics Letters Volume 494, Issues 1-3, 9 July 2010, Pages 69-74
[Impact Factor (2021): 2,719 (https://jcr.clarivate.com/)]

- 2010 A Brunetti, D Bailo, V Rossi Albertini *Selective energy dispersive diffraction peak fitting by using genetic algorithm*. in Journal of Xray science and technology 2010;18(4):339-52.
[Impact Factor (2022): 2,442 (https://www.iospress.com/catalog/journals/journal-of-x-ray-science-and-technology)]

2009

- 2009 A. Brunetti, V. Rossi Albertini, D. Bailo, *Angular calibration in energy dispersive X-Ray diffraction by using genetic algorithms*, Journal of X-Ray Science and Technology, Volume 17, Number 3 / 2009, 253-264
[Impact Factor (2022): 2,442 https://jcr.clarivate.com/)]

- 2009 B. Paci, A. Generosi, R. Generosi, D. Bailo, V. Rossi Albertini, *Simultaneous in situ AFM/EDXR techniques for thin films time-resolved morphological studies*, Chemical Physics Letters Volume 483, Issues 1-3, 24 November 2009, Pages 159-163
[Impact Factor (2021): 2,719 (https://jcr.clarivate.com/)]

- 2009 V. Rossi Albertini, A. Brunetti, D. Bailo *Effect of disturbance induced by the electronic noise on the Energy Dispersive X-ray Diffraction patterns collection*, Nuclear Instruments and Methods in Physics Research Section A, Volume 610, Issue 2, p. 566-572
[Impact Factor (2021): 2,719 (https://jcr.clarivate.com/)]

- 2009 D. Bailo, P. Escarate, V. Rossi Albertini, A. Brunetti, *Remote Laboratory System: A Model Proposal and Implementation on X-Ray Laboratory Machines*, Int. Journal of Online Engineering, Vol 5, No 2 (2009)
[Journal Citation Indicator (JCI) 2021:0.2 (https://jcr.clarivate.com)]

- 2009 P. Escárate, D. Bailo A Guesalaga, V Rossi Albertini*, Energy dispersive X-ray diffraction spectroscopy for rapid estimation of calcite in copper ores*, Minerals Engineering Volume 22, Issue 6, May 2009, Pages 566-571
[Impact Factor (2021): 5,407 (https://jcr.clarivate.com/)]

- 2009 G. Pompeo, M. Girasole, G. Longo, A. Cricenti, D. Bailo et al. *AFM for diagnosis of nanocrystallization of steels in hardening processes*, Journal of Microscopy, Volume 230, Number 2, May 2008 , pp. 218-223(6)
[Impact Factor (2021): 1,952 (https://jcr.clarivate.com/)]

Proceedings and conference proceedings (peer-reviewed)

2023

- 2023 R. Paciello, L. Trani, D. Bailo and M. Sbarra, *"EPOS-DCAT-AP 2.0 – State of play on the*

Application Profile for metadata exchange in the EPOS RI", in MTSR 2022, 16th International Conference on Metadata and Semantics Research, 7 - 11 November 2022, London.

- 2023 R. Paciello, L. Trani, D. Bailo, V. Vinciarelli and M. Sbarra, *"SHAPEness: a SHACL-driven Metadata Editor"*, in MTSR 2022, 16th International Conference on Metadata and Semantics Research, 7 - 11 November 2022, London.

- 2023 K. Jeffery, D. Bailo, R. Paciello and V. Vinciarelli, *"European Environmental Metadata",* in MTSR 2022, 16th International Conference on Metadata and Semantics Research, 7 - 11 November 2022, London.

- 2023 D. Bailo, R. Paciello, V. Vinciarelli, A. Orfino, K. Jeffery, J. Michalek and C. Goffi, *"Integrated access to multidisciplinary data through semantically interoperable services in a metadata-driven platform for Solid Earth Science"*, in MTSR 2022, 16th International Conference on Metadata and Semantics Research, 7 - 11 November 2022, London.

2022

- 2022 Michálek J., Bailo D., Jeffery K.G., Atakan K. and Paciello R. (2022). *EPOS Data Portal - cross-disciplinary data access in the Solid Earth domain*. Presentation at 3ECEES conference, contribution no. ESC - S38 8521, 4-9 September 2022, Bucharest, Romania.

2020

- 2020 Jeffery, K.G., Atakan, K., Bailo, D., and Harrison, M. *EPOS: A FAIR Research Infrastructure.* GEOProcessing 2020: The 12th International Conference on Advanced Geographic Information Systems, Applications, and Services, 21-25 Nov.2020, Valencia, Spain.

2019

- 2019 Petzold, Andreas; Glaves, Helen M; Asmi, Ari; Bailo, Daniel; Bundke, Ulrich; Vermeulen, Alex; Schaap, Dick; Maris, B V *ENVRI – FAIR – Interoperable environmental FAIR data and services for society,* innovation and research, in the proceedings of IEEE eScience, USA

- 2019 Keith G Jeffery, Daniele Bailo, Kuvvet Atakan, Matt Harrison *EPOS: European Plate Observing System.Proceedings* GeoProcessing 2019 Athens 25-27 February 2019 ISSN: 2308-393X ISBN: 978-1-61208-687-3

2016

- 2016 Anneke Zuiderwijk, Marijn Janssen, Yi Yin, Keith Jeffery, Daniele Bailo *Virtual Research Environments: Obtaining New Insights by Sharing Open Data for Interdisciplinary Research Purposes*. Conference for E-Democracy and Open Government. 2016.

- 2016 Zuiderwijk, A., Jeffery, K., Bailo, D., & Yin, Y. *Using open research data for public policy making: Opportunities of Virtual Research Environments.* Paper presented at the Conference on E-Democracy and Open Government (CeDEM), Krems an der Donau, Austria. Also downloadable here IEEEDOI: doi:10.4233/uuid:abb559fc-e6ef-49a5-b82d-b9fac3391d58

- 2016 Bailo, D., Nayembil, M., Spinuso, A., Trani, L., Ulbricht, D., & Jeffery, K. G. *Mapping solid earth Data and Research Infrastructures to CERIF*. Published in CRIS 2016 Conference, Procedia Computer Science, Volume 106, 2017, Pages 112-121 http://hdl.handle.net/11366/537 [Citescore: 3.6 (https://www.sciencedirect.com/journal/procedia-computer-science)]

2015

- 2015 Bailo, D.; Jeffery, K.G.; Spinuso, A.; Flemens, G., *Interoperability Oriented Architecture: The Approach of EPOS for Solid Earth e-Infrastructures*, e-Science (e-Science), 2015 IEEE 11th International Conference on, vol., no., pp.529-534, Aug. 31 2015-Sept. 4 2015 doi:

10.1109/eScience.2015.22

2014

- 2014 Daniel Bailo, Keith G. Jeffery, *EPOS: A Novel Use of CERIF for Data-intensive Science*, Procedia Computer Science, Volume 33, 2014, Pages 3-10, ISSN 1877-0509, http://dx.doi.org/10.1016/j.procs.2014.06.002. [Citescore: 3.6 (https://www.sciencedirect.com/journal/procedia-computer-science)]

- Jeffery, K.G., Bailo, D. (2014). *EPOS: Using Metadata in Geoscience*. In: Closs, S., Studer, R., Garoufallou, E., Sicilia, MA. (eds) Metadata and Semantics Research. MTSR 2014. Communications in Computer and Information Science, vol 478. Springer, Cham. https://doi.org/10.1007/978-3-319-13674-5_17 [Impact Factor (2021): 0.476 (https://academic-accelerator.com/)]

Technical and Scientific Reports

2024

- Bailo D. Peer Review Report For: Facilitating remote and virtual access provision by European research infrastructures – requirements, issues, and recommendations [version 1; peer review: 1 approved, 2 approved with reservations]. Open Res Europe 2024, 4:152 (https://doi.org/10.21956/openreseurope.19478.r42486)

- Bailo, D., Cocco, M., Michalek, J., Nedrebø, H., Paciello, R., Stuebe, K. C., & Tanlongo, F. (2024, settembre 4). *Focus On Interoperability: The EPOS Approach*. Zenodo. https://doi.org/10.5281/zenodo.13682759

- Cocco, M., Michalek, J., Nedrebø, H., Stuebe, K. C., & Tanlongo, F. (2024). D5.3 - Learning Path and Training Materials on "*Open Science and Research Data Management in Solid Earth Sciences*" (1.0.0). Zenodo. https://doi.org/10.5281/zenodo.13684718

2023

- 2023, Bailo, D., Giuliacci, K., Vinciarelli, V., Näsholm, P., Paciello, R. (2023): Geo-INQUIRE Horizon Europe project. *D6.2 Report on existing metadata schemes, mappings and converters required both to populate the catalog and for integration with the relevant RIs*, Potsdam : GFZ German Research Centre for Geosciences, 12 p. https://doi.org/10.48440/7nj7-xt36

2022

- 2022, Giovanna Maracchia, Rita Silva, Daniele Bailo, Diana Piras, Carmela Freda, Agata Sangianantoni, Daniela Mercurio "*EPOS ERIC Gender Equality Plan (GEP)*" https://www.epos-eu.org/sites/default/files/2023-01/EPOS-ERIC_GEP_221222_Approved_GA.pdf

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2018

- 2018 Daniele Bailo, Karen Tellefsen,and WP06 – WP07 team *EPOS Data policy and the FAIR principles*. The EPOS Newsletter issue 02 April 2018 | Top Tips 01

- 2018 Kuvvet Atakan, Daniele Bailo, Matthew Harrison, Keith Jeffery, Jan Michalek and Karen Tellefsen *Status update from the EPOS WP6 and 7* IT Team . The EPOS Newsletter issue 01 January 2018 | Top Tips 01

<u>2017</u>

- 2017 Daniele Bailo, Manuela Sbarra, ***EPOS – European Plate Observing System: Applying the VRE4EIC Virtual Research Environment Model in the Solid Earth Science Domain***. ERCIM News, Volume 2017, 2017 http://dblp.uni-trier.de/rec/bib/journals/ercim/BailoS17

- 2017 Kuvvet Atakan, Daniele Bailo, Keith Jeffery, Matthew Harrison ***Integrated Core Services (ICS) system demonstrator*** in Prague Integration Workshop, The EPOS Newsletter issue 02 April 2017 | Highlights 03

- 2017 Keith Jeffery, Daniele Bailo ***TOP TIPS – Virtual Research Environments, Science Gateways and Virtual Laboratories***, The EPOS Newsletter issue 02 April 2017 | Top Tips 01

- 2017 Tomasz Szepieniec, Daniele Bailo, Kuvvet Atakan, Keith Jeffery ***Progress in EPOS Authentication and Authorisation Solutions***, EPOS-IP Newsletter Issue No.2017-04, TopTips 01

- 2017 Jeffery, K., Bailo, D., Atakan, K. and Harrison M. ***Demonstrating ICS-C functionalities***, EPOS-IP Newsletter Issue No.2017-02, Article 01, 3p.

- 2017 Atakan, K., Bailo, D., Jeffery, K., and Harrison, ***Integrated Core System (ICS) demonstrator at Prague Integration Workshop***, EPOS-IP Newsletter Issue No.2017-02, Highlights 03, 3p.

- 2017 Massimo Cocco, Carmela Freda, Daniele Bailo, ***The EPOS contribution to innovation and excellence in science***, The EPOS Newsletter issue 01 January 2017 | Article 01

<u>2016</u>

- 2016 Jeffery, K., Cocco, M., Atakan, K., Harrison, M., and Bailo, D. ***The EPOS vision on EOSC***, EPOS-IP Newsletter Issue No.2016-02, Article 01, 3p.

Participation in national and international conferences, workshops

<u>2024</u>

- 2024-04-14　European Geophysical Union EGU 2024 Vienna, Austria & Online | 14–19 April 2024

- 2024-03-11　EPOS Days Meeting, held in Rome city centre at the Congress Centre "Forma Spazi" Via Cavour 181, on March 11-14, 2024. https://events.epos-eu.org/event/16/

- 2024-02-06.　ENVRI-Hub NEXT kickoff meeting, fom Tuesday, 6 February 2024 to Thursday, 8 February 2024, hosted by EGI (consortium leader)

- 2024-02-23.　ESFRI-EOSC Policy Workshop on "FAIR Data Productivity and Advanced Digitalization" organized by the ESFRI-EOSC Task Force, on 23-24 January 2024, in Milan, Italy.

<u>2023</u>

- 2023-12-11to15 American Geophysical Uinonn 23 in San Francisco, CA 11-15 December 2023.

- 2023-11-15 Giornata di discussione su Research Data Management, Data sharing e Open Science INGV

- 2023-10-7 EPOS ICS Hackathon arranged in Rome between 7-10 November 2023

- 2023-10-25 MTSR 17th International Conference on Metadata and Semantics Research Milan, 25th - 27th October 2023

- 2023-10-4to6 **Geo-INQUIRE Project Annual Meeting 2023** (4 Oct 2023, 08:00 - 6 Oct 2023, 14:00)

- 2023.09.21 INNOVATION & INTEGRATION AC MEETING September 20-21, 2023 EARTHSCOPE HQ

- 2023-09-20to22 EPOS ICS-TCS Interaction Workshop, 20-22 September 2023, Naples, Italy,

- 2023-04-24to28. European Geophysical Union EGU 2023 Vienna, Austria & Online | 24–28 April 2023

- 2023-03-20 to 24 EPOS Hackathon, Catania, 21-24 March 2023

- 2023-01-30   ENVRI WEEK 2023, annual consortium meeting of the ENVRI-FAIR project in Leipzig, Germany, from 30th January to 3rd February 2023

2022

- 2022-10-04   Geo-INQUIRE kickoff meeting 2Potsdam, GFZ main campus - 4 and 5 October 2022 Postdam, Germany

- 2022-09-28   First Training REDI – Reducing risks of natural disasters 26-30 September, 2022 (hybrid workshop)   Camerino, Italy

- 2022-09-20   TCS-ICS Interaction Workshop 20-23, 2022 Bergen, Norway (hybrid workshop) Bergen, Norway

- 2022-06-21   EPOS SP Annual Meeting (Agenda)   Barcelona, Spain

- 2022-06-13   EPOS ICS-TCS interaction Workshop Virtual Meeting

2021

- 2021-12-10   EPOS ICS-TCS interaction Workshop Virtual Meeting

- 2021-10-05   ICT WORKSHOP INGV 2021 :: Rome (Italy)

- 2021-09-13   EPOS ICS-TCS interaction Workshop Virtual Meeting

- 2021-06-14   EPOS ICS-TCS interaction Workshop Virtual Meeting

- 2021-05-04   EPOS User Experience Workshop   Virtual Meeting

- 2021-03-15   EPOS ICS-TCS interaction Workshop Virtual Meeting

- 2021-01-25   EPOS-Norway project final workshop, a virtual open event on 25-27 January 2021 Virtual Meeting

2020

- 2020-12-09   EPOS ICS-TCS interaction Workshop Virtual Meeting

- 2020-09-30   51st Nordic Seismology Seminar (joint 2020 Nordic Seismology and Nordic EPOS Seminar)   Virtual Meeting

- 2020-09-22   EPOS ICS-TCS interaction Workshop Virtual Meeting

- 2020-06-09   EPOS ICS-TCS interaction Workshop Virtual Meeting

- 2020-03-31   EPOS ICS-TCS interaction Workshop Virtual Meeting

- 2020-02-10   EPOS-SP Kickoff Meeting, Brussels   Brussels (Italy)

- 2020-02-03   ENVRI-WEEK 2021   Virtual Meeting

2019

- 2019-12-09   5th EPOS ICS-TCS Integration Workshop in Copenhagen, Denmark, 9-12

December 2019   Copenhagen, Denmark

- 2019-11-14   3rd face-to-face meeting of the EPOS IP Advisory Board in Paris (France), 14-15 November 2019   Paris, France

- 2019-11-05   EC Final Review of the EPOS IP project in Brussels (Belgium), 5-6 November 2019 Brussels, Belgium

- 2019-09-25   EPOS Implementation Phase Project final event in Madrid, 25-27 September 2019   Madrid, Spain

- 2019-09-09   4th EPOS ICS-TCS integration workshop in Prague, Czech Republic, 9-13 September 2019   Prague, Czech Republic

- 2019-04-29   EPOS TCS-ICS Interaction Meeting   Amsterdam

- 2019-02-12   EPOS ICS-TCS Workshop - Testing & Preoperational - Window 1   Bergen, Norway

- 2019-01-23   EPOS-N External Advisory Board meeting   Bergen, Norway

- 2019-01-14   ENVRI-FAIR Kickoff meeting   Prague, Check Republic

2018

- 2018-12-10   AGU Fall Meeting Washington DC, United States of America

- 2018-12-06   VRE4EIC project final review meeting Luxembourg, Lux

- 2018-11-21   Second EOSC Stakeholders Forum   Vienna, Austria

- 2018-10-08   EPOS IP IT team meetings (WP6 & WP7) in Barcelona   Barcelona, Spain

- 2018-09-26   VRE4EIC consortium meeting   Heraklion, Crete, Greece

- 2018-07-04   EPOS Near Fault Observatory MEETING, WP9Patra, GR

- 2018-06-19   EPOS ICS Hackathon   Utrecht, NL

- 2018-06-13   IWSG 2018 - 10th International Workshop on Science Gateways   Edinburgh, UK

- 2018-06-04   EPOS WP9 - WP11 - WP13 EPOS TCS-ICS harmonization meeting Rome, IT

- 2018-05-22   VRE4EIC PEB and Technical Consortium Meeting, Amsterdam, NL

- 2018-03-12   EPOS Implementation and Validation Workshop, Lisbon, PT

- 2018-02-27   Virtual Research Environments: What services should they offer and what e-infrastructures should provide to support them, Pisa, IT

- 2018-02-21   VRE4EIC F2F Consortium Meeting   Barcelona, ES

- 2018-01-23   January 23-24, 2018 | EPOS-N Annual Workshop 2018, Bergen, Norway

2017

- 2017-12-12   EPOS IT team meeting in Keyworth (UK), 12 - 15 December 2017, Keyworth, United Kingdom

- 2017-11-29   INAF ICT workshop, 2017, Bologna, Italy

- 2017-11-06   5th ENVRI WEEK, Malaga, Malaga, Spain

- 2017-10-03   EPOS Validation Workshop & the 3rd EPOS IPC meeting, 3 - 5 October 2017 Bucharest (Romania),Bucharest, Romania

- 2017-09-11   VRE4EIC meets EPOS and ENVRIplus in Rome, 11-15 September 2017,Rome,

Italy

- 2017-06-28   June 28-29, VRE4EIC project review, Luxembourg,

- 2017-06-14   2ND NORDIC EPOS MEETING IN HELSINKI, FINLAND, 14 - 16 JUNE 2017,HELSINKI, FINLAND

- 2017-05-09   EPOS IT meeting in Bergen, Norway, 9 - 11 May 2017,Bergen, Norway

- 2017-04-03   BlueBRIDGE Workshop - FAIR friendly research data catalogues: How far are we?, 3 April 2017, Barcelona,Barcelona, Spain

- 2017-03-06   VRE4EIC meeting Rome,Rome, Italy

- 2017-02-27   EPOS IP WP6 & WP7 IT-Team hackathon in Prague,Prague, Czech Republic

- 2017-02-21   European Open Science Cloud - EOSC WP5 kick-off meeting.,Amsterdam, the Netherlands

- 2017-01-18   EPOS-N Annual Workshop 2017, External Advisory Board,Bergen, Norway

- 2017-01-13   VRE4EIC & EVER-EST collaboration workshop, Nice, France

2016

- 2016-12-19   EPOS IP WP6 & WP7 IT-Team meeting in Utrecht,Utrecht, the Netherlands

- 2016-11-30   W3C-VRE4EIC Smart Descriptions & Smarter Vocabularies (SDSVoc) Workshop, Amsterdam, the Netherlands

- 2016-11-22   EPOS Near Fault Observatory meeting,Naples, Italy

- 2016-10-04   EPOS IP IT team meeting (WP6 & WP7),Madrid , Spain

- 2016-09-25   ICT Proposers' Day 2016, Bratislava, Slovakia

- 2016-09-08   VRE4EIC PEB and Technical Meeting, Heraklion, Greece

- 2016-06-08   IWSG 2016- International Workshop on Science Gateways, Rome, Italy

- 2016-05-30   OPENAIRE NATIONAL WORKSHOP 2016, Rome, Italy

- 2016-04-17   EGU - European Geosciences Union General Assembly 2016.,Vienna, Austria

- 2016-04-06   EGI Conference 2016. Opening Science in Europe and in the World, Amsterdam, The Netherlands

- 2016-03-14   EPOS Integration Workshop,Prague, Czech Republic

- 2016-02-22   Open Science Retreat, Amsterdam, The Netherlands

- 2016-02-15   VRE4EIC PEB and Technical Meeting,Pisa, Italy

- 2016-02-09   EDISON - Data Infrastructure Competences and Skills Framework, Brussels, Belgium

- 2016-02-03   EUDAT User Forum and European Open Science Cloud for Research (EOSC) Workshop, Rome, Italy

- 2016-01-21   EPOS WP 6&7 Team Meeting - @BGS (British Geological Survey) Keyworth, UK

2015

- 2015-11-10   EGI Community Forum 2015,Rome, Italy

- 2015-10-22   ESA GEP - Gehazard Exploitation Platform kick-off meeting   Rome, Italy

- 2015-10-15   EU H2020 VRE4EIC Kickoff Meeting Rome, Italy

- 2015-10-05   EPOS Implementation Phase kick-off meeting,Rome, Italy

- 2015-09-02   IT4RIs workshop at 11th IEEE International Conference on eScience, Munich - Germany

- 2015-07-08   EPOS Work Packages 6&7 Pre-Meeting   BGS, Keyworth, UK,

- 2015-06-11   INGV Integration Meeting - Metadata, Brokering, International metadata and service Standards, integration of INGV services and databases Milan, Italy

- 2015-05-26   Research Infrastructures meet Research Data Alliance Workshop, Amsterdam, The Netherlands

- 2015-05-17   EGI CONFERENCE 2015, Lisbon, Portugal

- 2015-04-29   EPOS-EGI f2f Meeting, Rome - Italy

- 2015-04-13   European Geosciences Union General Assembly 2015,Vienna - Austria

- 2015-01-22   Earth Sciences workshop: users & communities meet RI providers, Amsterdam, Netherlands

2014

- 2014-11-27   MTSR 2014 - 9th Metadata and Semantics Research Conference,Karlsruhe, Germany

- 2014-11-11   e-IRG: e-Infrastructure Reflection Group Workshop, Rome, Italy

- 2014-10-22   EPOS PP Final Meeting: Towards EPOS Implementation Phase and Beyond,Rome, Italy

- 2014-10-17   RDA & ESFRI Projects Workshop on data sharing, Brussels, Belgium

- 2014-09-24   3rd EUDAT Conference: Bringing data infrastructures to Horizon2020, Amsterdam, Netherlands

- 2014-07-02   Second European Conference on Earthquake Engineering and Seismology (2ECEES), Istanbul, Turkey

- 2014-06-12   GEO European Projects Workshop,A thens, Greece

- 2014-04-27   European Geosciences Union General Assembly 2014,Vienna, Austria

- 2014-03-31   EPOS GSAC Workshop, Covilhã, Portugal

- 2014-03-14   MED-SUV Technical Meeting (data, data policy, interoperability)   Catania, Italy

- 2014-02-24   EPOS WG Coordination Workshop,Prague, Czech Republic

2013

- 2013-04-07   EGU - European Geosciences Union General Assembly 2013.   Vienna, Austria

2012

- 2012-04-22   EGU - European Geosciences Union General Assembly 2012.   Vienna, Austria

2010

- 2010-09-13   NANO 2010, X International Conference on "Nanostructured Materials" University

"La Sapienza". Rome, 13-17 September 2010   Rome, Italy

- 2010-06-22   ICOE2010, International Conference on Organic Electronics Université Paris Diderot. Paris, 22-25 June 2010   Paris, France

- 2010-06-16   Conference Young Chemists at the Department of Chemistry of the University of Studies "La Sapienza". Rome, 16-17 June 2010   Rome, Italy

2009

- 2009-06-23   NATIONAL SCHOOL-CONFERENCE ON MOLECULAR MATERIALS FOR PHOTONICS AND ELECTRONICS Hybrid nanostructured systems based on organic, inorganic and biological base: materials and devices. Arbatax, 24-27 June 2009   Arbatax, Italy

2008

- 2008-02-27   NI DAY 2008: Technology Forum on Virtual Instrumentation Highlights of the conference: design, prototyping and control; mechatronics; testing and data acquisition; industrial applications. Rome, 27 February 2008   Rome, Italy

2005

- 2005-11-10   Technology Forum on Embedded Systems, National Instruments Conference on industrial automation and embedded systems in all their aspects, from programming to design and implementation. Rome, 10 November 2005 Rome, Italy

- 2005-02-22   Virtual Instrumentation Technology Forum 2005, National Instruments Rome, February 22, 2005   Rome, Italy

2004

- 2004-11-25,   HANDImatica, conference for training and updating on IT and telematic solutions for disabled people Bologna, 25-27 November 2004   Bologna, Italy

- 2004-02-15, series of seminars on the approach to disability and relations with people with disabilities, followed at the Capodarco ONLUS community. Rome, February 2004

Databases and Software

Bailo D., Paciello R., Vinciarelli V and the EPOS IT Team, " **EPOS Data Portal Open Source**", 2023
URL: https://epos-eu.github.io/epos-open-source/
EPOS Data portal is an open source, service-based data integration system. It is based on a microservices architecture. The current web page includes general documentation about EPOS, technical documentation on the overall functioning of the architecture, and source code for each microservice. The package will also provide multi-platform executables to allow for full installation locally or on one or more remote servers using Docker and Kubernetes. The version is released under the GPLv3 license.

Bailo D., Paciello R., Vinciarelli V., Jeffery K.G., Atakan K., Orfino A., Bailo D., Goffi C., Giuliacci K., Sbarra M., Michalek J., Roquencourt J-B, Retout Y, Warren, D., Lavrnja-Czapski J., Card C., Stutley J., Bell P., Glaves H., Molander J. And the EPOS IT Team (2020), **"EPOS Data Portal"**
URL: https://www.ics-c.epos-eu.org/
EPOS Data Portal is a FAIR platform for accessing multidisciplinary data and services of solid Earth Sciences, which includes datasets from 10 different disciplines (Seismology, Volcanology, Satellite Data, Geodesy, Anthropogenic Risk, Geoelectromagnetism, Geology, Near Faults Observatories).

R. Paciello, M. Sbarra, L. Trani, D. Bailo, V. Vinciarelli. (2018), "*EPOS-DCAT-AP*".

URL: https://github.com/epos-eu/EPOS-DCAT-AP.
EPOS-DCAT-AP is an extension of the Data Catalog Vocabulary (DCAT) profile for research infrastructures in the environment and solid earth domains. The extension has been developed and adopted in the framework of the European Plate Observing System (EPOS) in order to represent, manage and integrate the diversity and heterogeneity of resources provided by the communities involved in EPOS.

Bailo D., (2015) **"Couchdb-dump (& restore)"**
URL: https://github.com/danielebailo/couchdb-dump
CouchDB Dump is a tool designed and implemented ad hoc to dump the documetale database CouchDB. It is often suggested to replicate or download it with the couchdb directive _all_docs, but it provides a JSON that cannot be re-imported directly into CouchDB. The goal of this software package is to provide an easy way to download and restore the CouchDB database.

Bailo D. (2014) **"Research Infrastructure Database for EPOS - RIDE Database"**
URL: https://github.com/danielebailo/epos-couch
Database developed with CouchDB technology, containing technical information on the different RIs declared by EPOS partners and EPOS associated partners, which contribute to the creation of the EPOS distributed research infrastructure.

PERSONAL SKILLS

Native language   Italian

Other languages

	COMPREHENSION		SPOKEN		WRITTEN PRODUCTION
	Listening	Reading	Interaction	Oral production	
English	C1	C1	C1	C1	C1
French	C1	B2	B2	B2	B2
Spanish	A2	A2	A2	A2	A2

Communication and social skills

- Strong team spirit acquired in team research work, in the coordination of research and development activities at the National Institute of Geophysics and Volcanology and as coordinator of the technical activities of EPOS, and in non-professional activities carried out at Christian associations (Comboni Missionaries, Taizè communities and other associations);
- Ability to quickly adapt to new and multicultural environments, developed within the framework of pan-European work at EPOS / INGV, and during the attendance of the "Institut des Sciences et Techniques de Grenoble" within the framework of the SOCRATES ERASMUS program and in international research and dissemination activity);
- Communication skills developed in the activity of drafting and dissemination of the work done, writing and drafting scientific publications, abstracts, and reports, and presentation at conferences, meetings and national and international conventions

Organizational and managerial skills

Attitude to problem solving and teamwork; Sense of organization; Management of groups and group projects; I acquired these skills in the management of European projects, in the coordination of an international IT team (~15 developers) and as the IT Officer of the EPOS ERIC pan-European Research Infrastructure.

Computer Science Skills

Excellent skills in Data Science: Pyhton (Numpy, Pandas, PyTorch, Plotly and other libraries),

Matlab

Good Knowledge and experience in versioning systems: Git (GitLab, GitHUb), and CI/CD integration.

Excellent knowledge of operating systems: Windows 95/98, Windows NT, Windows2000, Windows XP, Unix/Linux (RedHat, Ubuntu), OpenBSD, Macosx;

Excellent knowledge of programming languages and environments: javascript and related plugins C / C ++, Java, LabView, HTML, CGI, PERL, ASP, SQL, PHP, Pascal, ML, Assembler, Visual Basic, Python;

Excellent knowledge of the Microsoft Office suite;

Excellent knowledge of graphic suites: Paint Shop Pro, Adobe Photoshop, The GIMP

Excellent knowledge of Latex text editor;

Excellent knowledge of calculation software: Matlab, Scilab, Origin;

Excellent knowledge of compilers: LabView, Eclipse (Java), Visual Studio (C++);

Excellent knowledge of Electronic Workbench electronic simulation suite

Technical skills and competences

AFM microscopes;

X-ray diffractometers and tomographs;

Electronic laboratory instruments (oscilloscopes, amplifiers, signal generators);

Electronically controlled Step Motors;

Hydraulic systems;

Flow controllers;

Vicon Stereophotogrammetric System;

Torque platforms

Artistic skills

▪ 2022 - Fingerpicking Guitar, Weissenborn slide guitar, training course with Maestro Mimmo Sparacio

▪ 2019 - Cajon, metallophone, and other percussion, private training course

▪ 2018 - Basso pop, private training course

▪ 2016 - Jazz trumpet, private training course.

▪ 2013 Writing: book "Gli Stancocchi" - 2013, ed. Youcanprint, (http://www.youcanprint.it/index.php?option=com_chronocontact&task=send&chronoformname=ricerca_generale&Itemid=95).

▪ 2001 – 2022 Guitarist and trumpeter of the band "ex falso quodlibet" jazz / fusion genre (http://exfalsoquodlibet.org/).

▪ 2001 - Composer of Electronic Music, album "Silenzi", (http://www.jamendo.com/en/list/a121210/silenzi).

▪ 1998 - Jazz guitar, training course at the Scuola di Musica Popolare del Testaccio (three years).

▪ Reading of classics of Italian and foreign literature, contemporary literature.

▪ Video Maker, within the EPOS project (youtube at the Epos ProjectEu profile)

Other competencies

Skills in the world of disability and health;

Experiences in the world of scouting: one year head of Guides de France;

Experiences in the world of parish animation (C.R.E.S.);

Participation in the spirituality group "Malbes" among the Comboni Missionaries and Meetings promoted by the ecumenical community of Taizé

Driving license

Driving licence B

Personal data

I also authorize the processing of personal data basis of art. 13 of Legislative Decree 196/2003". he

The information contained in this Curriculum is provided under the personal responsibility of the undersigned pursuant to Articles. 46 and 47 of Presidential Decree 445/2000, aware of the criminal liability provided for by Article 76 of the same D.P.R. for the hypothesis of falsity in acts and false declarations.