

Domenico Vito

PhD

Brief Intro

Domenico Vito, PhD engineer, works in European projects on air quality in northern Italy. He has been an observer of the Conferences of the Parties since 2015 - the year in which the Paris Agreement was approved by the parties. Member of the Italian Society of Climate Sciences (SISC), he is active in various environmental organizations and networks (The Climate Reality Project, Legambiente). Promoter of the blog / YouTube [channel HubZine Italia](#) for dissemination on international negotiations and organizer of the Climate Change Symposiums to commit public opinion to UN resolutions, climate action, multilateralism and international cooperation.

WORK EXPERIENCE

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- June 2018 – May 2020 **EU projects Co-coordinator**
FLA (<https://flanet.org/>)
Project Manament Support on an EU project related to Air Quality regional policies in the Po' Basin
- April 2017 – April 2018 **Research Fellow**
CNR - IEIT
▪ Database design, data analysis on medical data repository
- February 2015 – May 2015 **Erasmus+ Program Participant**
University of Valencia
▪ Development of an ICT platform for data Management within the European Project AppCare
- May 2017 – February 2017 **Research Collaborator**
Politecnico di Milano
▪ Implementation of a controlling interface for a computational model aimed to test and control of the solutes mass transfer during a dialysis treatment in the dialysis filter and in the plasmatic environment
▪ Design of an electronic circuit for water quality control and automatized dialysate composition for a dialysis filter testing model
- April 2017 – April 2018 **Teaching Assistant**
Politecnico di Milano
Assistant for lectures of Thermodynamics, Bachelor Degree Bioengineering, Heating transfer models and cycles
- Jan 2005 – Sept 2010 **Co-coordinator of volunteering activities**
UNICEF ITALIA
Coordination and planning of conferences on Cooperation and Development Project,
Implementation and management of a web site and database
Coordination of volunteer workgroups throw collaborative web-tools. IT Support
- April 2017 – April 2018 **Internship**
Fondazione Istituto Nazionale Neurologico “Carlo Besta”,

- EEG signal analysis in epileptic subjects through multivariate autoregressive models

EDUCATION AND TRAINING
May 2020 – June 2020

CLIMATE CHANGE BETWEEN SCIENCE, TECHNIQUE, LAW AND PANDEMIC

PHD

Centro Studi Systasis per la prevenzione e la gestione dei conflitti ambientali

Climate Change and Environmental Conflicts, Climate and Law, International Framework of Environmental Legislations, policies and geopolitical asset. Science, Law and Environment, Communication of Climate Change

November 2014 – May 2017

MASTER RIDEF 2.0

PHD

Politecnico di Milano

FINAL THESIS: *Modelling of macroeffects of Climate Change on agricultural productivity* in collaboration with **FAO STATISTICAL DIVISION and ClimateLab**

Main Contents: Renewable Energies, Smart Grids, Climate Change and Sustainability, LCA processes and Industrial Certification

November 2014 – May 2017

PhD Bioengineering

PHD

Politecnico di Milano

Statistical data mining automation algorithms with machine learning techniques (Random Forest, SVM, Neural Networks), Convection-Diffusion Modelling, OpenFOAM modelling

October 2016

GIS for Epidemiology and Public Health

Post Graduate

Terre Logice Srl.

GIS fundamentals: basic requirements and requirements, ESRI ArcGIS user interface. Concepts of statistics applied to geographic data, types of maps and layers in the health sector. Methods of classification of coropletes and definition of the optimal choice criteria (Jenks algorithm, quantile, equal, geometric interval, etc.) Analysis of the punctual and areal model point and area distribution

November 2015 – July 2016

Post Graduate course – GEOGRAPHICAL INFORMATION SYSTEMS

Post Graduate

DASTU - Politecnico di Milano

- Gis Technologies and Mapping, ArcGIS, VAS Principles, Environmental Planning, QGIS; Addati

November 2014 – July 2015

Post Graduate program - COOPER(A)CTION

Post Graduate

DASTU - Politecnico di Milano

Knowledge and skills for the sustainable cities in the global south

- Urban Planning
 - Sustainable development
 - Project management for development projects
- Energy, Water and Sanitation Issues in the Global South

May 2015

MOOC - Disasters and ecosystem-based disaster Ecosystems: risk reduction and Resilience in a adaptation Changing Climate

MOOC

iversity GmbH - UNEP

- Disaster trends and statistics, Fundamentals of disaster risk reduction, Climate change, disasters, and environmental linkages, Tools for ecosystem-based disaster risk reduction and adaptation, Global, national and local processes of disaster risk reduction

▪

June 2015 **MOOC – Climate Change and Health for Policy Makers** MOOC
iversity- UNEP Centre Virchow-Villermé of Public Health Paris-Berlin
 Health and Climate, Health as a crucial driver for climate policy, impacts on health of Climate Change

July 2014 **Energy Urban Manager** Post Graduate
AsPRA
 ▪ Public Energy Systems, Energy Regulation and Energy Efficiency, PAES, Green Public Procurement, Public Lighting, Third part Financing, Case Studies

May 2014 **Master in Europroject Management** Post Graduate
EUROPA CUBE
 ▪ The European Union, and the Europe 2020 framework
 ▪ PCM and application to European Projects.
 ▪ Partipatory Programming, Cost-Reporting

February 2014 **Certified Associate in Project Management** Post Graduate
Project Management Institute
 Porfolio, Programs, Projects, Organizational Structures, Project Life Cycle, Project Management Knowledge Areas

October 2007 – October 2012 **Master Degree Biomedical Engineering** Master Degree
Politecnico di Milano
 ▪ Theory and Practice of Physics, Mathematics, Chemistry, Medicine, Tissue Engineering, Biology and Genomics, NMR Spectroscopy, Biosensing, Theory and Practice on Signal Processing, Image, Processing, Data Mining, Finite Element Modelling, Problem Solving and Analysis methods

Replace with dates (from - to) **Final Thesis Title: A new telemedicine system to tailor COPD patients at home**
Intensive Course in “Ecology and Environment” Athens Program
Mines ParisTech

September 2003 – July 2007 **Bachelor Degree Biomedical Engineering** Bachelor Degree
Politecnico di Milano
 Competences on Informatics and Electronics. Fundamentals of Physics, Mathematics, Chemistry Biology and Medicine, Problem Solving and Analysis methods

Final Thesis Title: Study of the photoparoxistic response to intermittent light stimulation on the EEG signal in a population of epileptic subjects through a multivariate autoregressive model analysis

PERSONAL SKILLS

Mother tongue(s)

Other language(s)

| | UNDERSTANDING | | | | SPEAKING | | WRITING |
|---------|--|----|---------|----|--------------------|-------------------|---------|
| | Listening | | Reading | | Spoken interaction | Spoken production | |
| | | | | | | | |
| Italian | | | | | | | |
| English | C1 | C2 | C1 | C1 | C1 | | |
| | Replace with name of language certificate. Enter level if known. | | | | | | |
| Spanish | C1 | B2 | C1 | B2 | B2 | | |
| | Replace with name of language certificate. Enter level if known. | | | | | | |

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
 Common European Framework of Reference for Languages

Communication skills

Team work ; due to my working and volunteering experiences

Social contact: during my experiences I developed the way to approach people

Intercultural skills: I often work with people of different nationalities and cultural background during my activities

Organisational / managerial skills

-Relationship Management

-Management and scheduling of activity

Aptitude to problem solving

Computer skills

OS: Windows XP, Vista, 7, Linux
Software packages: Office (Word, Excel, Power Point),
DBMS: MySQL, MS Access, SQL language, Python
Web languages: HTML, JSP, ASP, XML, XHTML, Javascript&DOM, PHP, jQuery
Programming Languages: C, C++, Java, Matlab, Labview G language, Bash Scripting, Android, Python, R
Software Modelling Languages: WebML
GIS Softwares: QGIS, ArchGIS
CFD softwares: OpenFOAM, Ansys Fluent (Base)
Biomolecular and Genetic Databases: Entrez Gene (basic), Genome (basic)

Driving licence
Participations

B

December 2019

COP25 – Observer

FLA

Main Activities: Observer , communication and reporting on side events

Speaker at Side Event of “The Climate Reality Project”, YOUNGO representative at the HIGH LEVEL SEGMENT
Global Stocktake Presentation

December 2018

COP24 – Observer

Affiliation: Alliance IVS

Main Activities: Observer , communication and reporting on side events

YOUNGO Participant and Drafter for the Final Statement at the Closing Plenary

November - December 2017

COP23 – Observer

Affiliation: YPA- NGO

Main Activities: Observer , communication and reporting on side events

December 2015

COP21 – Observer

Affiliation: YPA- NGO

Main Activities: Observer , communication and reporting on side events

Memberships

- The Climate Reality Project EU Team Italy (<https://www.climateRealityProject.org/>)
- Società italiana per il clima (<https://www.sisclima.it/>)
- YESS Young Earth System Science Community (<https://www.yess-community.org/>)
- GNB Italy (<https://www.grupponazionalebioingegneria.it/en/>)
- (form)YOUNGO and UNEP MGCY

- Publications
- Presentations
- Projects
- Conferences
- Seminars
- Honours and awards
- Memberships
- References

Scientific Publications

2020

Pala D., Zurlo L., Franzini M., Bellazzi R., Casella V., Vito D., Larizza C. **"Preventive Healthcare through Air Pollution Exposure Modeling: the example of PULSE in Pavia"** Proceeding of the VII Congress of the National Group of Bioengineering (GNB)

Vito D., Ottaviano M., Bellazzi R., Larizza C., Casella V., Pala D. (2020) **"The PULSE project: big data for a new model of wellbeing"** Proceeding of the 42th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, July 20-24, 2020 via the EMBS Virtual Academy

Vito D., Ottaviano M., Bellazzi R., Larizza C., Casella V., Pala D., Franzini M. (2020) **"The PULSE project: a case of use of big data uses toward a comprehensive health vision of city well being"** The Impact of Digital Technologies on Public Health in Developed and Developing Countries" Volume 12157 18th International Conference, ICOST 2020, Hammamet, Tunisia, June 24–26, 2020, Proceedings Editors: Jmaiel, M., Mokhtari, M., Abdulrazak, B., Aloulou, H., Kallel, S. (Eds.),

Vito D., Ottaviano M., Maria Fernanda Cabrera M., Gabriel Teriús J., Bellazzi R., Casella V., (2020) **"Public Health Observatories: a learning community model to foster knowledge transfer for sustainable cities"**, Proceedings of 6th International Conference on Higher Education Advances (HEAd'20), June 2 – 5, 2020 Valencia

Vito D. (2020) **Community Partnerships for Disaster Risk Management**. In: Leal Filho W., AzuA., Brandli L., Özuyar P., Wall T. (eds) Partnerships for the Goals. Encyclopedia of the UN Sustainable Development Goals. Springer, Cham

2019

Vito D., Lapi M., Fontana S., Ballarin Denti A., Cozzi L. **MOODLE BASED SELF SUPPORT FOR CONSTRUCTIVE LEARNING: THE CASE OF PREPARED!** Proceeding of Convegno SELF "Le tecnologie dell'apprendimento a sostegno del cambiamento della Pubblica Amministrazione" November 19th 2019

Vito D., Bellazzi R., Casella V., Larizza C., Pala D., **Pulse Project: una knowledge platform di dati multivariati al servizio della salute pubblica** **XXIII Conferenza Nazionale ASITA, 12-14 novembre 2019, Trieste**

Vito D., Bellazzi R., Casella V., Larizza C., Pala D., **Dynamic spatio-temporal health impact assessments using geolocated population-based data: the PULSE project** **World Clean Air Conference, Istanbul 22-27 September 2019**

Vito D., **"SDG compliance and climate finance as implementative driver for adaptation policies"** - ClimRisk 2019, SISC Annual Conference October 23-25, 2019 **Palazzo della Provincia - Trento**

2018

Vito D., **"Adaption through information : the impact of ICTS on responsiveness and compliance of climate policies"** - SISC Annual Conference October 17-18, 2018 **Università Ca' Foscari - Venice**

Vito, D. (2018). **Enhancing Participation Through ICTs: How Modern Information Technologies Can Improve Participatory Approaches Fostering Sustainable Development**. In *Sustainable Urban Development and Globalization* (pp. 131-145). Springer, Cham.

Vito, D.: **USE OF MULTIVARIATE MACHINE LEARNING ANALYSIS TECHNIQUES FOR FLOOD RISK PREVENTION**, Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XLII-3/W4, 549-554, https://doi.org/10.1007/978-3-319-91231-1_10

2016

Vito D. **"Water Management in a Urban Metabolism perspective, the case study of Budapest"** – Convegno GLOBAL WATER EXPO – "Applicazione di tecnologie appropriate su acque e rifiuti in progetti di cooperazione internazionale", November 8th 2016, Rimini ECOMONDO

Vito D. **"A Spatial Data Infrastructure for the city of Milan to represent energy expenditure and CO2 emissions, in order to enhance urban resilience based on INSPIRE framework"**, INSPIRE CONFERENCE 2016, Barcelona 26th-30th September

Vito D., **"Software architectures for remote sensor based farming decision support systems as tools for agricultural climate change adaptation strategies"** - Science Symposium on Climate November 19- 20, 2015 Rome, FAO HeadQuarter

Casagrande G., Bianchi C., Vito D., Carfagna F., Minoretti C., Pontoriero G., Schoenholzer C., Minoretti C., Rombolà G., Costantino M.L. **"Patient-specific modeling of multicompartmental fluid and mass exchange during dialysis"**, Int J Artif Organs 2016; 39(5): 220 - 227 ISSN 0391-3988

Vito D., Casagrande G., Cappoli G., Bianchi C., Pontoriero G., Schoenholzer C., Minoretti C., Rombolà G., Costantino M.L., "A predictive index of intra-dialysis IDH A statistical clinical data mining approach", International Journal of Advances in Software Engineering & Research Methodology– vol. 2, no. 2 pp. 53–7, 2015. ISSN:2374 - 1619

2014

Vito D., Bianchi C., Casagrande G., Costantino M.L., 2014- "A novel database approach to gather clinical data on dialysis treatments" - Proceedings of 1st International Conference Recent Trends and Applications in Computer Science and Information Technology

Others:**2019**

Contributor: FAO. 2019. *Youth in motion for climate action! - A compilation of youth initiatives in agriculture to address the impacts of climate change.* Rome.

2016

Invited speaker at: **Foss4G2016** :- **Vito D.** "Involving communities in environmental protection by Community Information Systems: the case study of "La Cuicadora"

PUBLICATIONS ON MEDIA

COVID-19 : health emergency and climate emergency: an ecological vision and the community resilience
<http://hubzineitalia.com/2020/03/24/covid-19-health-emergency-and-climate-emergency-an-ecological-vision-and-the-community-resilience/>

COP25: dopo la delusione dei negoziati, riflessioni per una risposta resiliente
<https://www.peacelink.it/ospiti/a/47160.html>

COP24: Un sottile equilibrio tra speranza e disperazione
<http://hubzineitalia.com/2018/12/21/cop24-un-commento-a-freddo-in-equilibrio-tra-speranza-e-disperazione/>

Società Civile e Adattamento: come comunicare con coraggio
<http://www.italiaclima.org/side-event-societa-civile-e-adattamento-comunicare-e-partecipare-con#coraggio/>

Clima e Salute: Un legame imprescindibile in una visione ecosistemica
<https://www.glistatigenerali.com/clima/salute-e-clima-un-legame-inscindibile-in-una-visione#ecosistemica/>

REDD +: Cos'è e come funziona
<http://www.italiaclima.org/redd-consacrazione-nel-nuovo-accordo-cose-e-perche-e-importante/>
2018

Other courses

*October 2017***Copernicus: from geospatial to smart cities**

provided by: Climate-KIC

Main Competences: COPERNICUS, geospatial data products with Environmental Data Modeling and Geo computation in the smart cities management.

*September 2016 – June 2017***ICT for INNOVATION AND DEVELOPMENT**

provided by: ONG 2.0

Main Competences: <http://www.ong2zero.org/en/blog/corsi/course-description/>*October 2015- June 2016***Università della Sostenibilità**

provided by: Economia e Sostenibilità

Main Competences: Integrated Project Management, Environmental Change Management, Circular Economy Social Innovation, Participation

Full Program: <http://www.unisost.org/wp/corsi/>*September 2015***Summer School “Big Data for Precision Medicine”**

provided by: Center for Health Technology “Università di Pavia”

Main Competences: Analysis and integration of a high variety of large volume data, with specific focus on genomics and environmental ones, for the benefit of precision medicine and clinical decision making

September 2015

Open Source GIS Software

provided by: Ong 2.0

Main Competences: Analysis and integration of a high variety of large volume data, with specific focus on genomics and environmental ones, for the benefit of precision medicine and clinical decision making

Jan -May 2015

HL7- E-learning course on Healthcare Interoperability

provided by: HL7-Italia

Main Competences: Interoperability of Hospital Information Systems, UML, XML, Data Types, ACK RIM Modelling, HL7-CDA, Architecture, CDA-R2, HL7- V3 Standards