

# Curriculum Vitae di Damiano Perri

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## PERSONAL INFORMATION

**Damiano Perri, Ph.D.**



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## CURRENT ROLE

**Research Fellow, Universty of Perugia**

## WORK EXPERIENCE

01/07/2024 - Now

### Research fellow

University of Perugia, (Italy)

Research fellow, project: "DICI-A: A Learner Dictionary of Italian Collocations". Implementation of processing algorithms and language learning. Implementation and management of relational and non-relational databases. Implementation and management of web systems. Implementation and management of machine learning systems applied to language processing and learning.

2025 – Now

### Adjunct Professor

University of Perugia, (Italy)

Lecturer at the Department of Medicine and Surgery, University of Perugia, of the teaching "Computer Science", 2CFU, academic year 2024/2025. The teaching is compulsory and is part of the basic education of the Bachelor of Science in "Exercise and Sport Sciences."

2023 – Now

### Adjunct professor

University of Perugia, (Italy)

Lecturer at the Department of Mathematics and Computer Science of the University of Perugia of the teaching "[Virtual Reality And Augmented Reality Laboratory 1](#)", INF/01, 3CFU, academic years 2023/2024, 2024/2025. The teaching is mandatory and is part of the core curriculum of the degree course in "Programming and Management of Computer Systems".

2023 – Now

### Adjunct professor

University of Perugia, (Italy)

Lecturer at the Department of Mathematics and Computer Science of the University of Perugia of the teaching "[Elements of Computer Architecture and Operating Systems](#)", INF/01, 6CFU, academic years 2023/2024, 2024/2025. The teaching is mandatory and is part of the core curriculum of the degree course in "Programming and Management of Computer Systems".

2015 – Now

### Technical Manager and main developer

LibreEOL - University of Perugia (Italy)

Administrator and developer of the web platform [LibreEOL](#), which enables university examinations to be conducted in a technically and legally secure manner.

2024 – Now

### Expert guidance

University of Perugia (Italy)

Performs the role of Guidance Expert following the winning of the University of Perugia's call for proposals under PNRR, Mission 4, Investment 1.6 "Active guidance in school-university transition" CUP J51I24000210006 aimed at the establishment of a list of highly qualified experts/experts from which to draw to cover needs in the organization at secondary schools of the Program "Active Orientation in the School-University Transition" funded by the European Union - NextGenerationEU, D.R. n. 3165 of 23.10.2024

## 2023 - 01/07/2024 Research fellow

University of Perugia, (Italy)

Research fellow, project: "University Services for Teaching and Research in High Availability". Study and implementation of Web applications and Mobile Apps for the provision of University services dedicated to Research and Teaching in high reliability, System management of the Cloud platform (AWS or Google or Microsoft Azure) for services in high reliability. Systems management in Linux and Windows environments. Development of artificial intelligence for the enhancement of university research and teaching. Realisation of Metaverse and Virtual Reality and Augmented Reality environments, particularly oriented towards university research and teaching.

## 2023 Teacher

ITS Umbria Academy, (Italy)

Teacher at ITS Umbria Accademy of the following teachings:

- "Computer Graphics"
- "Computer Science"
- "Internet Technologies"
- "Big data management and analytics"

## 2023 Guidance Expert

University of Perugia (Italy)

Serve with the role of Guidance Expert following the winning of a call for applications by the University of Perugia for the constitution of a list of highly qualified experts from which to draw to cover any needs in the organisation in secondary schools of the Programme "Active guidance in the school-university transition" financed by the European Union -NextGenerationEU within the framework of the P.N.R.R. - Mission 4, Component 1 "Strengthening the supply of education services: from nursery schools to universities" - Investment 1.6. N.R.R. - Mission 4, Component 1 "Strengthening the supply of education services: from kindergartens to universities" - Investment 1.6. (Ministerial Decree no. 934 of 03 August 2022).

## 2022-2023 Collaborator

Federazione Italiana Giochi e Sport Tradizionali (FIGeST)

Carried out various activities for the organisation and support of the EuFestTSG event. Adaptation of the LibreEOL e-assessment platform for the implementation of a test enabling the awarding of training credits to students, who obtained eligibility by passing this test. Adaptation of the UniPG participation platform (<https://partecipa.unipg.it>) for the realisation of the digital registration form, which allows FIGeST to speed up some bureaucratic procedures, such as the issuing of the certificate of participation and the issuing of attendance certificates, once the e-assessment test has been passed.

## 2022 Teacher

ITS Umbria Accademy (Italy)

He was a teacher for the Advanced Computer Science course. The 40 hours of lessons are aimed at teaching Blender, Unity, History of video games, Making GUIs for mobile games, mobile programming.

#### 11/2022 – 2023 University tutor for the course High Performance Computing

University of Perugia (Italy)

He acts as tutor for the University for the course "High Performance Computing"

#### 09/2022 – 10/2022 University tutor for the course PyBootCamp 2022

University of Perugia (Italy)

Pybootcamp is an introductory course to Python, the currently emerging programming language for Artificial Intelligence applications.

#### 01/12/2021 – 30/06/2022 University tutor

University of Perugia (Italy)

He acts as tutor for the University for the course "Virtual reality systems".

#### 09/2021 Committee support activities for a public competition call, Cesar

Cesar, Casalina (Italia)

Conducts a committee support activity for a public competition announcement using the LibreEOL online examination system

#### 01/12/2020 – 30/06/2021 University tutor

University of Perugia (Italy)

He acts as tutor for the University for the course "Virtual reality systems".

#### 25/10/2020 – 31/10/2020 IT assistant

University of Perugia (Italy)

Participates in the organisation of the "multiscale, machine learning and QSAR Methods applied to biomolecules", part of the Master's in Theoretical Chemistry and computational Modelling Course 2020-2021 as a technical assistant to the computer equipment and software used for the video streams

#### 23/01/2020 – 23/04/2020 University tutor for the course PyBootCamp 2020

University of Perugia (Italy)

Pybootcamp is an introductory course to Python, the currently emerging programming language for Artificial Intelligence applications.

It was organized with the innovative "peer-to-peer" formula where senior computer science students and PhD students tutor and explain the secrets of Python programming to their peers, under the supervision of Professor Alfredo Milani, President of the Board of Courses Degree in Computer Science.

#### 2019 IT consultant

Arcadia SRL

Creates a virtual art gallery for classical art painter Edmondo Zaroli. The art gallery allows the user to explore the environment and view the paintings created by the master with the use of a 3D viewer. In addition, a responsive website is created and is accessible at the following address: <https://www.zaroli.it/>

#### 06/11/2017 – 31/07/2018 University tutor

University of Perugia (Italy)

He acts as tutor for the University for the "High Performance Computing" course and for the "Virtual Reality Systems" course.

#### 12/01/2018 – 16/01/2018 University tutor

University of Perugia (Italy)

A tutoring activity was carried out in the framework of the project "Alternanza Scuola Lavoro" of the Department of Mathematics and Computer Science of the University of Perugia called "La Via Flaminia Virtuale" with the Istituto Tecnico Tecnologico "Leonardo Da Vinci" of Foligno (PG) for a total duration of 20 hours on 12-16 January 2018. The course was attended by 24 students. During the tutoring activities, concerning the software Blender and Unity, excellent results were obtained with the students.

#### 2018 Tutor - european call for proposals P.O.N.

ITT Leonardo da Vinci institute (Foligno)

Tutor a course to the fourth class explaining virtual reality techniques and methodologies. Creation of three-dimensional worlds, environments and scenes. Graphic design of video games Use of Unity, Blender, Gimp During the project the Via Flaminia, the Tempietto del Clitunno, the walls of Spello, Bevagna, Assisi, and some characteristic objects of the historical period under examination are realised.

#### 2016 – 31/10/2017 University tutor

University of Perugia (Italy)

Tutoring for the "drop-out rate reduction" action of the PLS (Scientific Degrees Plan) - National Chemistry Project

#### 23/10/2016 – 23/03/2017 Computer systems analyst

ICCSA (The International Conference on Computational Science and Its Applications)

Optimisation of e-mail list management procedures for the ICCSA conference and implementation of new functionalities in the official conference website

### UNIVERSITY STUDIES AND TRAINING COURSES

#### 03/10/2019 – 05/06/2023 Ph.D. in Mathematics, Statistics, Computer Science

University of Florence

He obtained the title of Doctor of Mathematics, Statistics and Computer Science (Computer Science curriculum) after completing the XXXV cycle of his doctorate, which focused on topics concerning Virtual Reality, Augmented Reality, Machine Learning and Cloud Computing. The thesis presented has the following title: 'Innovative approaches to some modern complex problems'. During his third year, he had the honour and pleasure of collaborating with Prof. Sumi Helal (University of Florida). The PhD took place at the University of Florence. SSD: INF/01

**More information:** During his doctoral program, he took advanced courses, including :

- Advances in Neural Network (6CFU)
- Methods for Parallel Programming (6CFU)
- Affective Computing and Emotion Recognition (6CFU)
- Evolutionary computations and its applications to machine learning (6CFU)

#### 25/09/2016 – 21/02/2019 Master's degree, Intelligent and mobile computing

University of Perugia (Italy)

He completed his Master's degree in Computer Science, Intelligent and mobile computing, with a grade of 110 cum laude. The thesis presented has the following title: "Adaptive methods for accelerating Deep Neural Networks on ARM GPU architectures". The co-advisors were Prof. Osvaldo Gervasi (University of Perugia), Dr. Anton Lokhmotov (Dividiti) and Prof. Flavio Vella (University of Bolzano). Master's degree pursuant to Ministerial Decree 270/2004 in: LM/18

## 2013 – 22/09/2016 Degree in Computer Science

University of Perugia (Italy)

Completes a three-year degree course in Computer Science, with a mark of 110 cum laude. The thesis was entitled: "Predisposition of the EOL software to tests for the certification of language skills". The supervisor was Prof. Osvaldo Gervasi (University of Perugia). Master's degree pursuant to Ministerial Decree 270/2004 in: L/31

## 2006 – 2011 Scientific high school diploma

ITAS "Giordano Bruno" (Italy)

High school diploma

## TRAINING AND REFRESHER COURSES

### 22/06/2021 – 24/06/2021 Architecting on AWS

Xpeppers - AWS Training Partner

This course explains the fundamentals of building IT infrastructures on the AWS platform. It explains how to optimise the AWS Cloud after understanding what AWS services are and how they fit into cloud-based solutions. In addition, students explore AWS Cloud best practices and design patterns to architect optimal IT solutions on AWS and build multiple infrastructures in guided hands-on activities. The course also explains how to create architectures and integrate them into robust and flexible solutions.

### 01/06/2021 – 04/06/2021 Systems operations on AWS

Xpeppers - AWS Training Partner

This course teaches system operators and anyone performing system operations functions how to install, configure, automate, monitor, secure, manage and remediate the AWS services, networks and systems needed to support business applications. The course also examines specific AWS features, tools and best practices related to these functions.

### 11/04/2019 – 02/07/2019 Obtaining the 24CFU for teaching at public schools

Pegaso Telematic University (Italy)

Principal subjects studied/occupational skills covered: Course carried out with the Telematic University Pegaso reserved for the Teaching Profession Area with which 24 CFUs were acquired in anthropo-psycho-pedagogical disciplines and in teaching methodologies and technologies, these 24 CFUs are the prerequisite to participate in the teaching competition for high school / middle school.

The exams taken were the following:

- Antropologia culturale - 6 CFU
- Didattica dell'inclusione - 6 CFU
- Tecnologie dell'istruzione e dell'apprendimento - 6 CFU
- Psicologia generale - 6 CFU

### 11/04/2013 – 17/05/2014 CCNA Certification Training Course (300 Hours)

Accademia Domani (Italy)

He follows the technical preparation course for the CISCO CCNA certification. The course trains a networking specialist to install, configure, manage and troubleshoot medium-sized wired networks, both local area networks and wide area networks, including the implementation and testing of remote site connections over WANs. The course provides a comprehensive and structured knowledge of networking technologies including IP routing and switching, network security, network services, network programmability and network automation. Topics covered: TCP/IP, Subnetting, Network Management, Routing, WLAN, IPV4, IPV6, WAN, NAT.

## 10/05/2011 – 07/09/2011 Cisco Certification - IT Essential: PC Hardware and Software

Cisco System, Inc. (Italy)

Through the institute "Giordano Bruno" participates in the professional course organised by the Cisco System. Inc Networking Accademy obtaining the Cisco certification "IT Essentials: PC Hardware and Software" with particular reference to: installation and navigation in an operating system, step-by-step assembly of a desktop computer, installation of peripherals, installation and maintenance of an operating system, network, workstation, laptop or scanner

## ACKNOWLEDGEMENTS AND AWARDS

### 2024 Best Paper Award

ICCSA 2024 (Hanoi, Vietnam)

Awarded the 'Best paper Award' for the paper 'Beyond the Cox model: applying machine learning techniques with time-to-event data' presented at the 24th International Conferences on Computational Science and Its Applications.

### 02/2024 Subject matter expert for teaching Affective Computing (LM-18)

University of Perugia, Italy

### 11/02/2021 Approval of candidature and inclusion in the ITS Umbria Academy teachers' roster

Foligno, Italy

### 06/2021 Subject matter expert for teaching Computer Networks: Protocols (L-31)

University of Perugia, Italy

### 06/2021 Subject matter expert for teaching Open and distributed systems (L-31)

University of Perugia, Italy

### 06/2021 Subject matter expert for teaching Simulation (LM-18)

University of Perugia, Italy

### 06/2021 Subject matter expert for teaching Didactics of computer science (LM-18)

University of Perugia, Italy

### 05/2020 Subject matter expert for the teaching Network Architecture (L-31)

University of Perugia, Italy

### 05/2020 Subject matter expert for the teaching Virtual Reality Systems (L-31)

University of Perugia, Italy

- 05/2020 **Subject matter expert for the teaching of Human Computer Interaction (LM-18)**  
University of Perugia, Italy
- 05/2020 **Subject matter expert for the teaching of High Performance Computing (LM-18)**  
University of Perugia, Italy
- 2020 **Best Paper Award**  
ICCSA 2020 (Cagliari, Italy)  
Awarded the 'Best paper Award' for the paper 'An immersive Open Source environment using Godot' presented at the 20th International Conferences on Computational Science and Its Applications.

## IMPORTANT ASSIGNMENTS

- 2025 **Speaker: Ph.D. School on Biotechnology**  
University of Perugia  
Collaborates in the organisation of a doctoral school with the role of Professor. School title: "Biomaterials and Artificial Intelligence" Lectures to students on the topic: AI, Machine Learning, and LLMs.
- 2025 – now **Guest Editor**  
MDPI  
Guest Editor of the [Special Issue](#) "Virtual Reality and Scientific Visualization, 2nd Edition" on the journal Electronics (ISSN 2079-9292).
- 2025 – now **Guest Associate Editor**  
Frontiersin  
Guest Associate Editor of the [Research Topic](#) "AI-Driven Innovations in Virtual Reality: From Synthetic Data Generation to Immersive Rehabilitation and Education" on the journal Frontiers in Computer Science.
- 2025 **Technology chair for International Conferences on Computational Science and Its Applications (ICCSA 2025)**  
Galatasaray University, Istanbul, Türkiye  
The 25th International Conference on Computational Science and Applications (ICCSA 2025) has been held on June 30 - July 3, 2025 blended (online and in presence) in collaboration with the Galatasaray University, Istanbul, Türkiye.  
[More information](https://iccsa.org) <https://iccsa.org>
- 2025 **Workshop Chair (AIWA)**  
Galatasaray University, Istanbul, Türkiye  
Workshop Chair at the workshop Advanced and Innovative Web Apps at the International Conference on Computational Science and its Applications 2025.
- 2025 **Workshop Chair (VRA)**  
Galatasaray University, Istanbul, Türkiye  
Workshop Chair at the workshop Virtual Reality, Augmented reality and Applications at the International Conference on Computational Science and its Applications 2025.



2024 – Now **Founding member of the cultural association "International Community on Computational Science and its Applications ETS"**

Via Mazzini 89th, 85100, Potenza, Italy

The Association pursues various purposes including the promotion and encouragement of studies and research related to scientific subjects conducted with theoretical and experimental methods based on computer and mathematical approaches; experimental and mathematical-Computer Science tools; the dissemination of innovative scientific knowledge developed with experimental and mathematical-Computer Science tools; and the planning and implementation of scientific research to be developed with experimental and mathematical-Computer Science tools;

2024 – Now **Scientific committee member: Davide Piampiano**

Assisi, (Italy)

Development of Virtual Reality applications to commemorate the memory of Davide Piampiano. Theoretical and technical advice for the implementation of projects and activities for the committee's work.

**More information:** The Davide Piampiano Scientific Committee was established to commemorate Davide's memory through social activities and actions.

2024 **Technology chair for International Conferences on Computational Science and Its Applications (ICCSA 2024)**

Hanoi, (Vietnam)

The 24th International Conference on Computational Science and Applications (ICCSA 2024) has been held on July 1 - 4, 2024 blended (online and in presence) in collaboration with the Thuyloi University, Hanoi, Vietnam.

**More information** <https://iccsa.org>

2024 **Workshop Chair (AIWA)**

Thuyloi University, Hanoi, Vietnam

Workshop Chair at the workshop Advanced and Innovative Web Apps at the International Conference on Computational Science and its Applications 2024.

2024 **Workshop Chair (VRA)**

Thuyloi University, Hanoi, Vietnam

Workshop Chair at the workshop Virtual Reality, Augmented reality and Applications at the International Conference on Computational Science and its Applications 2024.

2023 – 2024 **Guest editor**

MDPI

Guest Editor of the **Special Issue** "Selected Papers from the 23rd International Conference on Computational Science and Its Applications (ICCSA 2023)" on the journal Computers (ISSN 2073-431X).

10/2023 **Member of the Scientific Committee (ICAIGE 2023)**

Sousse, (Tunisia)

Member of the Scientific Committee for the 2023 IEEE International Conference On Artificial Intelligence & Green Energy , he has participated in the review process.

**More information** <https://icaige.hn.tn/>

2023 **Technology chair for International Conferences on Computational Science and Its Applications (ICCSA 2023)**

Athens, (Greece)

The 23th International Conference on Computational Science and Applications (ICCSA 2023) has been held on July 3 - 6, 2023 blended (online and in presence) in collaboration with the University of Athens, Greece.

More information <https://2023.iccsa.org>

## 2023 Workshop Chair (AIWA)

University of Athens (Greek)

Workshop Chair at the workshop Advanced and Innovative Web Apps at the International Conference on Computational Science and its Applications 2023 .

## 2023 Workshop Chair (VRA)

University of Athens (Greek)

Workshop Chair at the workshop Virtual Reality, Augmented reality and Applications at the International Conference on Computational Science and its Applications 2023 .

## 2022 – 2025 Topic Coordinator

Frontiers

Topic Coordinator of the [Special Issue](#) "The Metaverse, Immersive Virtual Reality and its Implications on Human Behavior" in "Frontiers in Psychology" journal.

## 2022 Technology chair for International Conferences on Computational Science and Its Applications (ICCSA 2022)

Málaga (Italy)

The 22th International Conference on Computational Science and Applications (ICCSA 2022) has been held on July 13 - 16, 2022 blended (online and in presence) in collaboration with the University of Málaga, Spain.

More information <https://2022.iccsa.org>

## 2022 Workshop Chair (VRA)

University of Málaga (Spain)

Workshop Chair at the workshop Virtual Reality, Augmented reality and Applications alla International Conference on Computational Science and its Applications 2022 .

## 06/04/2022 Jury member of a contest

FORMA.AZIONE SRL (Italy)

He was nominated to be part of the jury of the Digital Campus competition. The competition was part of the project entitled: «Training and information activities, aimed at schools of secondary within the project "Digital Campus" ». The competition had several categories, ranging from robotics, mobile application development, video editing to augmented reality, video projection on 3D objects.

## 2021 Technology chair for International Conferences on Computational Science and Its Applications (ICCSA 2021)

Cagliari (Italy)

The 21th International Conference on Computational Science and Applications (ICCSA 2021) has been held on September 13 - 16, 2021 blended (online and in presence) in collaboration with the University of Cagliari, Italy.

More information <https://2021.iccsa.org>

## 2021 Workshop Chair (VRA)

University of Cagliari (Italy)

Workshop Chair at the workshop Virtual Reality, Augmented reality and Applications alla International Conference on Computational Science and its Applications 2021 .

## 03/2021 – 04/2021 Artifact Evaluation Committee Members Computing Frontiers (CF'21)

Virtual conference

Computing Frontiers is an eclectic, interdisciplinary, collaborative community of researchers investigating emerging technologies in the broad field of computing: our common goal is to drive the scientific breakthroughs that transform society.

## 2020 Technology Chair for International Conferences on Computational Science and Its Applications (ICCSA 2020)

Cagliari (Italy)

The 20th International Conference on Computational Science and Applications (ICCSA 2020) has been held on July 1 - 4, 2020 online in collaboration with the University of Cagliari, Italy.

ICCSA 2020 has been the next event in a series of highly successful International Conferences on Computational Science and Its Applications (ICCSA), previously held in Saint Petersburg, Russia (2019), Melbourne, Australia (2018), Trieste, Italy (2017), Beijing, China (2016), Banff, Canada (2015), Guimaraes, Portugal (2014), Ho Chi Minh City, Vietnam (2013), Salvador de Bahia, Brazil (2012), Santander, Spain (2011), Fukuoka, Japan (2010), Suwon, Korea (2009), Perugia, Italy (2008), Kuala Lumpur, Malaysia (2007), Glasgow, UK (2006), Singapore (2005), Assisi, Italy (2004), Montreal, Canada (2003), and (as ICCS) in Amsterdam, The Netherlands (2002) and San Francisco, USA (2001). The first ICCSA conference was co-organized by C.J.K. Tan (UK) and M. Gavrilova (U of Calgary, Canada) in 2003. Submitted papers will be subject to stringent peer review by at least three experts and carefully evaluated based on originality, significance, technical soundness, and clarity of exposition. All accepted papers will be included in the Springer Lecture Notes in Computer Science (LNCS) series and indexed by Scopus, EI Engineering Index, Thomson Reuters Conference Proceedings Citation Index (included in ISI Web of Science), and several other indexing services. The papers will contain linked references, XML versions and citable DOI numbers.

More information <https://2020.iccsa.org>

## 04/2020 – 04/2020 Artifact Evaluation Committee Members Computing Frontiers (CF'20)

Ischia (Italy)

Computing Frontiers is an eclectic, interdisciplinary, collaborative community of researchers investigating emerging technologies in the broad field of computing: our common goal is to drive the scientific breakthroughs that transform society.

More information <http://www.computingfrontiers.org/2020/>

## CONFERENCES AND SEMINARS (AS SPEAKER)

### 07/2025 International Conference on Computational Science and its Applications

Galatasaray University, Istanbul, Türkiye

Presented the research paper 'Digital Heritage to improve accessibility and break down architectural barriers' at the 'Virtual Reality and Augmented Reality' workshop.

Presented the research paper 'Dockerized Architecture for a Progressive Web App: An Italian Collocations Dictionary' at the 'Advanced and Innovative Web Apps' workshop.

Presented the project 'DICI-A – A Learner Dictionary of Italian Collocations' during the Research Project Showcases.

- 07/2024 **International Conference on Computational Science and its Applications**  
Thuyloi University, Hanoi, Vietnam  
Presenting at the conference ICCSA 2024 the scientific paper 'Exploring the Metaverse: Opportunities for Tourism and Territorial Development'.
- 18/04/2024 **Master in Cultural Heritage Management for Tourism Development**  
University of Perugia (Italy)  
Present a 9-hour lecture entitled: "Tourism communication: the role and potential of Virtual Reality" at Palazzo Bernabei, Assisi, Italy
- 29/09/2023 **Sharper Night 2023**  
University of Perugia (Italy)  
Presenting at the Sharper Night 2023 'Realtà reimmaginate: tra tangibile e fantastico?'.
- 29/09/2023 **Sharper Night 2023**  
University of Perugia (Italy)  
Presenting at the Sharper Night 2023 'Contare con i quanti, conta veramente?'.
- 06/2023 **International Conference on Computational Science and its Applications**  
University of Athens (Greek)  
Presenting at the conference ICCSA 2023 the scientific paper 'A new exercise environment for the treatment of Visual Snow'.
- 30/09/2022 **Metaverse and future prospects**  
University of Perugia (Italy)  
The metaverse is the last frontier of the human imagination, where everything that has a physical limit in the real world is overcome in this new dimension. Students are offered a series of interactive scenarios that they will be able to visit, immersing themselves in them through an avatar that will allow them to observe the environments first-hand.
- 25/09/2022 **The digitalization of Traditional Games**  
University of Perugia (Italy)  
A talk together with Prof. Gervasi on the importance of digitising traditional sports through modern Virtual Reality and Augmented Reality technologies is presented.
- 07/07/2022 **International Conference on Computational Science and its Applications**  
University of Màlaga (Spain)  
Presenting at the conference ICCSA 2022 the scientific paper 'A mobile app to help people affected by Visual Snow'.
- 07/07/2022 **AWS Summit Milano**  
Milan (Italy)  
Presenting at the conference: "AWS e open source: come partecipare, scegliere e gestire software open source su larga scala"
- 21/04/2022 **Impact of open source and open data technologies on the journalist**

Ordine dei giornalisti Umbria, Sala Convegni, Hotel Plaza, Via Palermo n.88 - Perugia

He held an hour-long seminar explaining how to access the Deep Web, the Dark Web, the risks and dangers that can be encountered, and the content that is typically found in these environments. The audience consisted of professional journalists.

#### 09/12/2021 Remote assessment tools

University of Perugia (Italy)

Assignment for the participation as speaker of a scientific seminar in the context of the National Plan for Scientific Degrees of Computer Science, concerning the module "Nuovi stimoli verso lo studio dell'Informatica" of the course of Didactics of Computer Science, at the Department of Mathematics and Computer Science of the University of Perugia on 9 December 2021

#### 15/09/2021 International Conference on Computational Science and Its Applications

ICCSA 2021 (Cagliari)

Presenting at the conference ICCSA 2021 the scientific paper 'A new method for binary classification of proteins using Machine Learning'.

#### 16/06/2021 GARR

GARR - the Italian Education and Research Network

A scalable platform for electronic assessment (e-assessment) is presented, for which remote student control has recently been implemented, respecting student privacy. The platform does not require any software to be installed on the students' clients. The platform has been adopted by the University of Perugia for the execution of secure written examinations remotely as of 24/12/2020, thanks to a Rectoral Decree that amended the current Didactic Regulations that prohibited written examinations during pandemic periods, encouraging its adoption by the University's faculty, after the software had been illustrated to the Department Directors and the Student Council. At the moment the platform, released under the GPL 3.0 licence, based on Docker containers and configured to scale horizontally, is implemented on a commercial cloud under the CRUI agreement. As of 19/05/2021, 29519 individual exams have been held on the platform, distributed over 1628 examination sessions, 662 subjects and 16142 questions have been activated. 357 teachers and 13426 students have registered.

#### 27/10/2021 Safer Internet Day

Scientific High School Galileo Galilei (Perugia)

He held a seminar during the "Safer Internet Day" for the "Galileo Galilei" scientific high school entitled "How deep and dark is the web?".

#### 27/10/2020 Theoretical Chemistry and computational Modelling Course

Theoretical Chemistry and computational Modelling Course

Participates as a speaker for the event "multiscale, machine learning and QSAR Methods applied to biomolecules", part of the Master in Theoretical Chemistry and computational Modelling Course 2020-2021 giving a talk on the following topic: "Binary classification proteins by Machine Learning Approach". This is followed by a hands-on, for a total of 3 hours of lectures.

#### 01/07/2020 International Conference on Computational Science and Its Applications

ICCSA 2020 (Cagliari)

Presented the scientific paper 'Teaching Math with the help of Virtual Reality' at the conference.

#### 01/07/2020 International Conference on Computational Science and Its Applications

ICCSA 2020 (Cagliari)

Presented the scientific paper 'An immersive Open Source environment using Godot' at the conference.

## 20/12/2019 Astro Chemical Origins

Università Grenoble Alpes - Astro Chemical Origins, Grenoble (Francia)

He gave a 45-minute seminar entitled 'Machine Learning approaches using Python' for the Astro Chemical Origins project.

## 12/10/2019 AmareMatica

University of Perugia (Italy)

He held a 30-minute seminar at the Salda del Dottorato (Cloister of the San Lorenzo Cathedral) in Perugia for the Infor-AmareMatica, Poliedricità e Trasversalità dell'Informatica day. The topic was: "How much do you deserve? - Opportunities for online assessment".

## 05/2019 Piano Lauree Scientifiche

University of Perugia (Italy)

He held a 20-minute seminar at the Department of Mathematics and Computer Science of Perugia for the Departmental Day of Scientific Degrees (PLS) . The topic was: "Computer science pill: Distance assessment tools", starting with a brief historical introduction and explaining the usefulness and functioning of the LibreEOL software, used at European level for chemistry and computer science exams.

## 10/03/2018 Blender Italian Conference

Teatro Spazio ZUT (Foligno, Italy)

He gave a 30-minute talk together with Prof. Osvaldo Gervasi from the University of Perugia at the Spazio ZUT theatre in Foligno for the Italian Blender 2018 conference. In that space of time they talked about 3D graphics, design and 3D modelling of complex objects and scenes. Some reconstruction works of the tempietto del Clitunno and the Via Flaminia were shown for a European P.O.N. project carried out in collaboration with the Vinci High School in Foligno.

## CONFERENCES AND SEMINARS (AS A LISTENER)

30/06/2025 – 03/07/2025

## International Conference on Computational Science and its Applications

Blended conference - Galatasaray University, Istanbul, Türkiye

Computational Science is a main pillar of most of the present research, industrial and commercial activities and plays a unique role in exploiting Information and Communication Technologies as innovative technologies. The ICCSA Conference offers a real opportunity to discuss new issues, tackle complex problems and find advanced enabling solutions able to shape new trends in Computational Science.

01/07/2024 – 04/07/2024

## International Conference on Computational Science and its Applications

Blended conference - Thuyloi University, Hanoi, Vietnam

Computational Science is a main pillar of most of the present research, industrial and commercial activities and plays a unique role in exploiting Information and Communication Technologies as innovative technologies. The ICCSA Conference offers a real opportunity to discuss new issues, tackle complex problems and find advanced enabling solutions able to shape new trends in Computational Science.

## 25/05/2024 LREC-COLING 2024

Lingotto Conference Centre - Torino (Italy)

Two major international key players in the area of computational linguistics, the ELRA Language Resources Association (ELRA) and the International Committee on Computational Linguistics (ICCL), are joining forces to organize the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024) to be held in Torino (Italia) on 20-25 May, 2024.

### 03/07/2023 – 06/07/2023 **International Conference on Computational Science and its Applications**

Blended conference - University of Athens (Greek)

Computational Science is a main pillar of most of the present research, industrial and commercial activities and plays a unique role in exploiting Information and Communication Technologies as innovative technologies. The ICCSA Conference offers a real opportunity to discuss new issues, tackle complex problems and find advanced enabling solutions able to shape new trends in Computational Science.

### 04/07/2022 – 07/07/2022 **International Conference on Computational Science and its Applications**

Blended conference - University of Màlaga (Spain)

Computational Science is a main pillar of most of the present research, industrial and commercial activities and plays a unique role in exploiting Information and Communication Technologies as innovative technologies. The ICCSA Conference offers a real opportunity to discuss new issues, tackle complex problems and find advanced enabling solutions able to shape new trends in Computational Science.

### 13/09/2021 – 16/09/2022 **International Conference on Computational Science and its Applications**

Blended conference - University of Cagliari (Italy)

Computational Science is a main pillar of most of the present research, industrial and commercial activities and plays a unique role in exploiting Information and Communication Technologies as innovative technologies. The ICCSA Conference offers a real opportunity to discuss new issues, tackle complex problems and find advanced enabling solutions able to shape new trends in Computational Science.

### 11/05/2021 - 13/05/2021 **ACM International Conference on Computing Frontiers 2021**

Online Conference - University of Catania (Italy)

CF's broad scope is driven by recent technological advances in wide-ranging fields impacting computing, such as memory hardware and systems, network and systems architecture, cloud computing, novel device physics and materials, power efficiency, new application domains of machine and deep learning and big data analytics, and systems portability and wearability.

### 25/10/2020 – 31/10/2020 **Multiscale, machine learning and QSAR Methods applied to biomolecules**

University of Perugia (Italy)

He took part in a week-long series of seminars held at the University of Perugia's chemistry department by various lecturers.

### 21/10/2020 – 22/10/2020 **Unity for Umanity - Summit 2020**

conferenza online

Seminar held via live streaming and aimed at scholars of virtual reality techniques based on the Unity graphic engine



- 09/10/2020 **Epidemics, population Dynamics: prevention and containment**  
University of Perugia (Italy)  
Seminar held via virtual classroom teams by Prof. Giuseppe Schinaia
- 09/10/2020 **Quantum pictorialism**  
University of Pisa (Italy)  
Seminar delivered via virtual classroom teams
- 5/10/2020 **Cultura, mutamento, sviluppo. Quali sfide future per l'eco sostenibilità della società digitale**  
University of Salerno (Italy)  
Seminar held by the professor Emiliana Mangone
- 29/09/2020 **Verso horizon europe: contesto, mission e partnership**  
Agenzia per la promozione della ricerca europea (APRE)  
Online training course explaining the background, objectives and guidelines of the Horizon Europe project
- 25/09/2020 **Quantum pictorialism**  
University of Pisa (Italy)  
Seminar delivered via virtual classroom teams
- 01/07/2020 – 04/07/2020 **International Conference on Computational Science and its Applications**  
Online conference - University of Cagliari (Italy)  
Computational Science is a main pillar of most of the present research, industrial and commercial activities and plays a unique role in exploiting Information and Communication Technologies as innovative technologies. The ICCSA Conference offers a real opportunity to discuss new issues, tackle complex problems and find advanced enabling solutions able to shape new trends in Computational Science.
- 11/05/2020 - 13/05/2020 **ACM International Conference on Computing Frontiers 2020**  
Online Conference - University of Catania (Italy)  
CF's broad scope is driven by recent technological advances in wide-ranging fields impacting computing, such as memory hardware and systems, network and systems architecture, cloud computing, novel device physics and materials, power efficiency, new application domains of machine and deep learning and big data analytics, and systems portability and wearability.
- 17/02/2020 – 18/02/2020 **Machine learning meets Chemistry**  
University of Torino (Italy)  
Series of seminars held at the Department of Chemistry, University of Torino
- 31/01/2020 **Quantum Computers**  
University of Pisa (Italy)  
Seminar held at the Department of Mathematics and Computer Science, University of Pisa
- 11/12/19 **Algoritmi evolutivi algebrici**  
University of Perugia (Italy)



Seminar held by Prof. Valentino Santucci, at the Department of Mathematics and Computer Science, University of Perugia

#### 10/12/2019 Exploiting social Influence to control opinions in social network

University of Perugia (Italy)

Seminar held by Dr Federico Corò, at the Department of Mathematics and Computer Science, University of Perugia

#### 28/11/2019 Funzioni di matrici e applicazioni alla scienza delle reti

University of Perugia (Italy)

Seminar held by Prof. Michele Benzi, at the Department of Mathematics and Computer Science, University of Perugia

#### 15/09/2016 - 16/09/2016 EchemTest+ Training Event

University of Perugia (Italy)

Participates in the training event for the EchemTest platform used internationally for chemistry examinations and certifications by the ECTN

#### PAPERS

- [1] **Damiano Perri** and Osvaldo Gervasi. "A Novel Computational Framework for Visual Snow Syndrome". In: *IEEE Access* 13 (2025), pp. 23877–23887. DOI: [10.1109/ACCESS.2025.3536923](https://doi.org/10.1109/ACCESS.2025.3536923).
- [2] Osvaldo Gervasi, **Damiano Perri**, and Marco Simonetti. "Empowering Knowledge With Virtual and Augmented Reality". In: *IEEE Access* 11 (2023), pp. 144649–144662. DOI: [10.1109/ACCESS.2023.3342116](https://doi.org/10.1109/ACCESS.2023.3342116).
- [3] Marco Simonetti, **Damiano Perri**, and Osvaldo Gervasi. "Variational Methods in Optical Quantum Machine Learning". In: *IEEE Access* (2023). DOI: [10.1109/ACCESS.2023.3335625](https://doi.org/10.1109/ACCESS.2023.3335625). URL: <https://doi.org/10.1109/ACCESS.2023.3335625>.
- [4] Osvaldo Gervasi, **Damiano Perri**, and Marco Simonetti. "Strategies and System Implementations for Secure Electronic Written Exams". In: *IEEE Access* (2022). DOI: [10.1109/ACCESS.2022.3150860](https://doi.org/10.1109/ACCESS.2022.3150860). URL: <https://doi.org/10.1109/ACCESS.2022.3150860>.
- [5] **Damiano Perri**, Marco Simonetti, and Osvaldo Gervasi. "Deploying Efficiently Modern Applications on Cloud". In: *Electronics* 11.3 (2022). ISSN: 2079-9292. DOI: [10.3390/electronics11030450](https://doi.org/10.3390/electronics11030450). URL: <https://www.mdpi.com/2079-9292/11/3/450>.
- [6] **Damiano Perri**, Marco Simonetti, and Osvaldo Gervasi. "Deploying Serious Games for Cognitive Rehabilitation". In: *Computers* 11.7 (2022). ISSN: 2073-431X. DOI: [10.3390/computers11070103](https://doi.org/10.3390/computers11070103). URL: <https://www.mdpi.com/2073-431X/11/7/103>.
- [7] **Damiano Perri**, Marco Simonetti, and Osvaldo Gervasi. "Synthetic Data Generation to Speed-Up the Object Recognition Pipeline". In: *Electronics* 11.1 (2022). ISSN: 2079-9292. DOI: [10.3390/electronics11010002](https://doi.org/10.3390/electronics11010002). URL: <https://www.mdpi.com/2079-9292/11/1/2>.
- [8] Paolo Sylos Labini, Marco Cianfriglia, **Damiano Perri**, Osvaldo Gervasi, Grigori Fursin, Anton Lokhmotov, Cedric Nugteren, Bruno Carpentieri, Fabiana Zollo, and Flavio Vella. "On the Anatomy of Predictive Models for Accelerating GPU Convolution Kernels and Beyond". In: *ACM Trans. Archit. Code Optim.* 18.1 (Jan. 2021). ISSN: 1544-3566. DOI: [10.1145/3434402](https://doi.org/10.1145/3434402). URL: <https://doi.org/10.1145/3434402>.
- [9] **Damiano Perri**, Martina Fortunelli, Marco Simonetti, Riccardo Magni, Jessica Carloni, and Osvaldo Gervasi. "Rapid Prototyping of Virtual Reality Cognitive Exercises in a Tele-Rehabilitation Context". In: *Electronics* 10.4 (2021). ISSN: 2079-9292. DOI: [10.3390/electronics10040457](https://doi.org/10.3390/electronics10040457). URL: <https://www.mdpi.com/2079-9292/10/4/457>.

- [10] Valentina Franzoni, Giulio Biondi, **Damiano Perri**, and Osvaldo Gervasi. “Enhancing Mouth-Based Emotion Recognition Using Transfer Learning”. In: *Sensors* 20.18 (2020). ISSN: 1424-8220. DOI: [10.3390/s20185222](https://doi.org/10.3390/s20185222). URL: <https://www.mdpi.com/1424-8220/20/18/5222>.

## BOOKS OR PARTS OF BOOKS

- [1] **Damiano Perri**, Marco Simonetti, Osvaldo Gervasi, and Sergio Tasso. *Chapter 4 - High-performance computing and computational intelligence applications with a multi-chaos perspective*. Ed. by Yeliz Karaca, Dumitru Baleanu, Yu-Dong Zhang, Osvaldo Gervasi, and Majaz Moonis. Academic Press, 2022, pp. 55–76. ISBN: 978-0-323-90032-4. DOI: <https://doi.org/10.1016/B978-0-323-90032-4.00010-9>. URL: <https://www.sciencedirect.com/science/article/pii/B9780323900324000109>.
- [2] **Damiano Perri**, Marco Simonetti, Sergio Tasso, and Osvaldo Gervasi. *Learning Mathematics in an Immersive Way*. IntechOpen, Mar. 2021. DOI: [10.5772/intechopen.96533](https://doi.org/10.5772/intechopen.96533). URL: <https://doi.org/10.5772/intechopen.96533>.

## PROCEEDINGS

- [1] **Damiano Perri**, Sara Martinelli, Osvaldo Gervasi, David Berti, and Gilberto Zinourov Roncalli di Montorio. “Digital Heritage to Improve Accessibility and Break Down Architectural Barriers”. In: *Computational Science and Its Applications – ICCSA 2025 Workshops*. Cham: Springer Nature Switzerland, 2026, pp. 229–241. ISBN: 978-3-031-97657-5.
- [2] **Damiano Perri**, Sofia Rita Di Blasi, Fabio Forlani, and Osvaldo Gervasi. “Exploring the Metaverse: Opportunities for Tourism and Territorial Development”. In: *Computational Science and Its Applications – ICCSA 2024 Workshops*. Ed. by Osvaldo Gervasi, Beniamino Murgante, Chiara Garau, David Taniar, Ana Maria A. C. Rocha, and Maria Noelia Faginas Lago. Cham: Springer Nature Switzerland, 2024, pp. 141–153. ISBN: 978-3-031-65343-8.
- [3] **Damiano Perri**, Irene Fioravanti, Osvaldo Gervasi, and Stefania Spina. “Combining Grammatical and Relational Approaches. A Hybrid Method for the Identification of Candidate Collocations from Corpora”. In: *Proceedings of the Joint Workshop on Multiword Expressions and Universal Dependencies (MWE-UD) @ LREC-COLING 2024*. Ed. by Archana Bhatia, Gosse Bouma, A. Seza Dogruoz, Kilian Evang, Marcos Garcia, Voula Giouli, Lifeng Han, Joakim Nivre, and Alexandre Rademaker. Torino, Italia: ELRA and ICCL, May 2024, pp. 138–146. URL: <https://aclanthology.org/2024.mwe-1.18>.
- [4] Francesca Pierri, **Damiano Perri**, and Chrys Caroni. “Beyond the Cox Model: Applying Machine Learning Techniques with Time-to-Event Data”. In: *Computational Science and Its Applications – ICCSA 2024 Workshops*. Ed. by Osvaldo Gervasi, Beniamino Murgante, Chiara Garau, David Taniar, Ana Maria A. C. Rocha, and Maria Noelia Faginas Lago. Cham: Springer Nature Switzerland, 2024, pp. 412–427. ISBN: 978-3-031-65154-0.
- [5] Sergio Tasso, Simone Calò, Osvaldo Gervasi, and **Damiano Perri**. “Integration of an Artificial Intelligence Model into a Smartphone Flutter Application to Solve a Live Image Classification Problem”. In: *Computational Science and Its Applications – ICCSA 2024 Workshops*. Ed. by Osvaldo Gervasi, Beniamino Murgante, Chiara Garau, David Taniar, Ana Maria A. C. Rocha, and Maria Noelia Faginas Lago. Cham: Springer Nature Switzerland, 2024, pp. 39–55. ISBN: 978-3-031-65154-0.

- [6] **Damiano Perri**, Osvaldo Gervasi, and Marco Simonetti. “A New Exercise Environment for the Experimental Treatment of Visual Snow”. In: *Computational Science and Its Applications – ICCSA 2023 Workshops*. Ed. by Osvaldo Gervasi, Beniamino Murgante, Ana Maria A. C. Rocha, Chiara Garau, Francesco Scorza, Yeliz Karaca, and Carmelo M. Torre. Cham: Springer Nature Switzerland, 2023, pp. 243–252. ISBN: 978-3-031-37105-9.
- [7] **Damiano Perri**, Marco Simonetti, Sergio Tasso, and Osvaldo Gervasi. “Open Meta-verse with Open Software”. In: *Computational Science and Its Applications – ICCSA 2023 Workshops*. Ed. by Osvaldo Gervasi, Beniamino Murgante, Ana Maria A. C. Rocha, Chiara Garau, Francesco Scorza, Yeliz Karaca, and Carmelo M. Torre. Cham: Springer Nature Switzerland, 2023, pp. 583–596. ISBN: 978-3-031-37126-4.
- [8] Marco Simonetti, **Damiano Perri**, and Osvaldo Gervasi. “A Simple Implementation of an Entangler Circuit by Using Quantum Linear Optics”. In: *Computational Science and Its Applications – ICCSA 2023 Workshops*. Ed. by Osvaldo Gervasi, Beniamino Murgante, Ana Maria A. C. Rocha, Chiara Garau, Francesco Scorza, Yeliz Karaca, and Carmelo M. Torre. Cham: Springer Nature Switzerland, 2023, pp. 116–129. ISBN: 978-3-031-37105-9.
- [9] Osvaldo Gervasi, **Damiano Perri**, Marco Simonetti, and Sergio Tasso. “Strategies for the Digitalization of Cultural Heritage”. In: *Computational Science and Its Applications – ICCSA 2022 Workshops*. Ed. by Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Ana Maria A. C. Rocha, and Chiara Garau. Cham: Springer International Publishing, 2022, pp. 486–502. ISBN: 978-3-031-10592-0.
- [10] **Damiano Perri**, Marco Simonetti, Osvaldo Gervasi, and Natale Amato. “A Mobile App to Help People Affected by Visual Snow”. In: *Computational Science and Its Applications – ICCSA 2022 Workshops*. Ed. by Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Ana Maria A. C. Rocha, and Chiara Garau. Cham: Springer International Publishing, 2022, pp. 473–485. ISBN: 978-3-031-10592-0.
- [11] Marco Simonetti, **Damiano Perri**, and Osvaldo Gervasi. “An Example of Use of Variational Methods in Quantum Machine Learning”. In: *Computational Science and Its Applications – ICCSA 2022 Workshops*. Ed. by Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Ana Maria A. C. Rocha, and Chiara Garau. Cham: Springer International Publishing, 2022, pp. 597–609. ISBN: 978-3-031-10592-0.
- [12] **Damiano Perri**, Marco Simonetti, Alex Bordini, Simone Cimorelli, and Osvaldo Gervasi. “IoT to Monitor People Flow in Areas of Public Interest”. In: *Computational Science and Its Applications – ICCSA 2021*. Ed. by Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Chiara Garau, Ivan Blečić, David Taniar, Bernady O. Apduhan, Ana Maria A. C. Rocha, Eufemia Tarantino, and Carmelo Maria Torre. Cham: Springer International Publishing, 2021, pp. 658–672. ISBN: 978-3-030-87016-4.
- [13] **Damiano Perri**, Marco Simonetti, Andrea Lombardi, Noelia Faginas-Lago, and Osvaldo Gervasi. “A New Method for Binary Classification of Proteins with Machine Learning”. In: *Computational Science and Its Applications – ICCSA 2021*. Ed. by Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Chiara Garau, Ivan Blečić, David Taniar, Bernady O. Apduhan, Ana Maria A. C. Rocha, Eufemia Tarantino, and Carmelo Maria Torre. Cham: Springer International Publishing, 2021, pp. 388–397. ISBN: 978-3-030-87016-4.
- [14] **Damiano Perri**, Marco Simonetti, Sergio Tasso, Federico Ragni, and Osvaldo Gervasi. “Implementing a Scalable and Elastic Computing Environment Based on Cloud Containers”. In: *Computational Science and Its Applications – ICCSA 2021*. Ed. by Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Chiara Garau, Ivan Blečić, David Taniar, Bernady O. Apduhan, Ana Maria A. C. Rocha, Eufemia Tarantino, and Carmelo Maria Torre. Cham: Springer International Publishing, 2021, pp. 676–689. ISBN: 978-3-030-86653-2.

- [15] Priscilla Benedetti, **Damiano Perri**, Marco Simonetti, Osvaldo Gervasi, Gianluca Reali, and Mauro Femminella. "Skin Cancer Classification Using Inception Network and Transfer Learning". In: *Computational Science and Its Applications – ICCSA 2020*. Ed. by Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Chiara Garau, Ivan Blečić, David Taniar, Bernady O. Apduhan, Ana Maria A.C. Rocha, Eufemia Tarantino, Carmelo Maria Torre, and Yeliz Karaca. Cham: Springer International Publishing, 2020, pp. 536–545. ISBN: 978-3-030-58799-4.
- [16] **Damiano Perri**, Marco Simonetti, Andrea Lombardi, Noelia Faginas-Lago, and Osvaldo Gervasi. "Binary Classification of Proteins by a Machine Learning Approach". In: *Computational Science and Its Applications – ICCSA 2020*. Ed. by Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Chiara Garau, Ivan Blečić, David Taniar, Bernady O. Apduhan, Ana Maria A. C. Rocha, Eufemia Tarantino, Carmelo Maria Torre, and Yeliz Karaca. Cham: Springer International Publishing, 2020, pp. 549–558. ISBN: 978-3-030-58820-5.
- [17] Francesca Santucci, Federico Frenguelli, Alessandro De Angelis, Ilaria Cuccaro, **Damiano Perri**, and Marco Simonetti. "An Immersive Open Source Environment Using Godot". In: *Computational Science and Its Applications – ICCSA 2020*. Ed. by Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Chiara Garau, Ivan Blečić, David Taniar, Bernady O. Apduhan, Ana Maria A. C. Rocha, Eufemia Tarantino, Carmelo Maria Torre, and Yeliz Karaca. Cham: Springer International Publishing, 2020, pp. 784–798. ISBN: 978-3-030-58820-5.
- [18] Marco Simonetti, **Damiano Perri**, Natale Amato, and Osvaldo Gervasi. "Teaching Math with the Help of Virtual Reality". In: *Computational Science and Its Applications – ICCSA 2020*. Ed. by Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Chiara Garau, Ivan Blečić, David Taniar, Bernady O. Apduhan, Ana Maria A. C. Rocha, Eufemia Tarantino, Carmelo Maria Torre, and Yeliz Karaca. Cham: Springer International Publishing, 2020, pp. 799–809. ISBN: 978-3-030-58820-5.
- [19] Giulio Biondi, Valentina Franzoni, Osvaldo Gervasi, and **Damiano Perri**. "An Approach for Improving Automatic Mouth Emotion Recognition". In: *Computational Science and Its Applications – ICCSA 2019*. Ed. by Sanjay Misra, Osvaldo Gervasi, Beniamino Murgante, Elena Stankova, Vladimir Korkhov, Carmelo Torre, Ana Maria A.C. Rocha, David Taniar, Bernady O. Apduhan, and Eufemia Tarantino. Cham: Springer International Publishing, 2019, pp. 649–664. ISBN: 978-3-030-24289-3.
- [20] Valentina Franzoni, Sergio Tasso, Simonetta Pallottelli, and **Damiano Perri**. "Sharing Linkable Learning Objects with the Use of Metadata and a Taxonomy Assistant for Categorization". In: *Computational Science and Its Applications – ICCSA 2019*. Ed. by Sanjay Misra, Osvaldo Gervasi, Beniamino Murgante, Elena Stankova, Vladimir Korkhov, Carmelo Torre, Ana Maria A.C. Rocha, David Taniar, Bernady O. Apduhan, and Eufemia Tarantino. Cham: Springer International Publishing, 2019, pp. 336–348. ISBN: 978-3-030-24296-1.
- [21] Osvaldo Gervasi, Martina Fortunelli, Riccardo Magni, **Damiano Perri**, and Marco Simonetti. "Mobile Localization Techniques Oriented to Tangible Web". In: *Computational Science and Its Applications – ICCSA 2019*. Ed. by Sanjay Misra, Osvaldo Gervasi, Beniamino Murgante, Elena Stankova, Vladimir Korkhov, Carmelo Torre, Ana Maria A.C. Rocha, David Taniar, Bernady O. Apduhan, and Eufemia Tarantino. Cham: Springer International Publishing, 2019, pp. 118–128. ISBN: 978-3-030-24289-3.
- [22] **Damiano Perri**, Paolo Sylos Labini, Osvaldo Gervasi, Sergio Tasso, and Flavio Vella. "Towards a Learning-Based Performance Modeling for Accelerating Deep Neural Networks". In: *Computational Science and Its Applications – ICCSA 2019*. Ed. by Sanjay Misra, Osvaldo Gervasi, Beniamino Murgante, Elena Stankova, Vladimir Korkhov, Carmelo Torre, Ana Maria A.C. Rocha, David Taniar, Bernady O. Apduhan, and Eufemia Tarantino. Cham: Springer International Publishing, 2019, pp. 665–676. ISBN: 978-3-030-24289-3.



- [23] Antonio Laganà, Osvaldo Gervasi, Sergio Tasso, **Damiano Perri**, and Francesco Franciosa. "The ECTN Virtual Education Community Prosumer Model for Promoting and Assessing Chemical Knowledge". In: *Computational Science and Its Applications – ICCSA 2018*. Ed. by Osvaldo Gervasi, Beniamino Murgante, Sanjay Misra, Elena Stankova, Carmelo M. Torre, Ana Maria A.C. Rocha, David Taniar, Bernady O. Apduhan, Eufemia Tarantino, and Yeonseung Ryu. Cham: Springer International Publishing, 2018, pp. 533–548. ISBN: 978-3-319-95174-4.

#### SCIENTIFIC POSTER PRESENTED

- [1] **Damiano Perri**, Irene Fioravanti, Osvaldo Gervasi, and Stefania Spina. "Combining Grammatical and Relational Approaches. A Hybrid Method for the Identification of Candidate Collocations from Corpora". Torino, Italia, May 2024. URL: <https://aclanthology.org/2024.mwe-1.18>.
- [2] **Damiano Perri**, Irene Fioravanti, Osvaldo Gervasi, Stefania Spina, and Sergio Tasso. "A new Hybrid Method for the Identification of Candidate Collocations from Italian Corpora". Thuylou University, Hanoi, Vietnam, July 2024. URL: <https://iccsa.org/>.

#### HE ACTED AS REVIEWER FOR THE FOLLOWING ARTICLES (PUBLISHED)

- [1] Vasundhara S. Rathod, Ashish Tiwari, and Omprakash G. Kakde. "Folded ensemble deep learning based text generation on the brain signal". In: *Multimedia Tools and Applications* (Jan. 2024). ISSN: 1573-7721. DOI: [10.1007/s11042-024-18124-z](https://doi.org/10.1007/s11042-024-18124-z). URL: <https://doi.org/10.1007/s11042-024-18124-z>.
- [2] Faizan Ahmad, Zeeshan Ahmed, Momina Shaheen, Sara Muneeb, and Rubata Riasat. "A pilot study on the evaluation of cognitive abilities' cluster through game-based intelligent technique". In: *Multimedia Tools and Applications* (Apr. 2023). ISSN: 1573-7721. DOI: [10.1007/s11042-023-15100-x](https://doi.org/10.1007/s11042-023-15100-x). URL: <https://doi.org/10.1007/s11042-023-15100-x>.
- [3] Fayadh Alenezi, Ammar Armghan, and Kemal Polat. "A Novel Multi-Task Learning Network Based on Melanoma Segmentation and Classification with Skin Lesion Images". In: *Diagnostics* 23 (Jan. 2023). DOI: [10.3390/diagnostics13020262](https://doi.org/10.3390/diagnostics13020262).
- [4] Musa Aslan, Muhammet Baykara, and Talha Burak Alakuş. "LSTMNCP: lie detection from EEG signals with novel hybrid deep learning method". In: *Multimedia Tools and Applications* (Sept. 2023). ISSN: 1573-7721. DOI: [10.1007/s11042-023-16847-z](https://doi.org/10.1007/s11042-023-16847-z). URL: <https://doi.org/10.1007/s11042-023-16847-z>.
- [5] Yong Liu, Cheng Li, Jiade Huang, and Ming Gao. "MineSDS: A Unified Framework for Small Object Detection and Drivable Area Segmentation for Open-Pit Mining Scenario". In: *Sensors* 23.13 (2023). ISSN: 1424-8220. DOI: [10.3390/s23135977](https://doi.org/10.3390/s23135977). URL: <https://www.mdpi.com/1424-8220/23/13/5977>.
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#### CO-SUPERVISOR OF THE FOLLOWING MASTER'S THESES

- [1] Montani Andrea, Osvaldo Gervasi, and **Damiano Perri**. "Reinforcement Learning in Unity". tesi sperimentale, Laurea Magistrale. University of Perugia, IT, 2024.
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- [6] Yana Kozak, Osvaldo Gervasi, **Damiano Perri**, and Marco Simonetti. "Quantum machine learning: A case study of Quvolutional Neural Networks". tesi sperimentale, Laurea Magistrale. University of Perugia, IT, 2021.
- [7] Domenico Pagliuca, Sergio Tasso, and **Damiano Perri**. "Dark web e Black market: illegalità a portata di click". tesi sperimentale, Laurea Magistrale. University of Perugia, IT, Nov. 2021.

#### CO-SUPERVISOR OF THE FOLLOWING BACHELOR THESES

- [1] Giulian de Carlo, Osvaldo Gervasi, and **Damiano Perri**. "Utilizzo dell'intelligenza artificiale nella creazione e animazione di avatar virtuali". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2025.

- [2] Riccardo Canonico, Osvaldo Gervasi, and **Damiano Perri**. "Realtà mista per la promozione del turismo: il Metaverso dedicato a Davide Piampiano". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2024.
- [3] Tozzi Daniele, Osvaldo Gervasi, and **Damiano Perri**. "Ottimizzazione dell'acquisizione di oggetti e forme complesse". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2024.
- [4] Leonardo Fiori, Osvaldo Gervasi, and **Damiano Perri**. "Impatto del metaverso nell'apprendimento". tesi compilativa, Laurea Triennale. University of Perugia, IT, 2024.
- [5] Samuele Iosa, Osvaldo Gervasi, and **Damiano Perri**. "Realtà mista per esplorare l'Astrochimica". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2024.
- [6] Mastrini Lorenzo, Osvaldo Gervasi, and **Damiano Perri**. "Realtà mista per la promozione del turismo: Ottimizzazione di ambienti immersivi complessi per visore Meta Quest 3". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2024.
- [7] Silicato Lorenzo, Osvaldo Gervasi, and **Damiano Perri**. "Realtà Virtuale per curare la sindrome Visual Snow". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2024.
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- [9] Massimiliano Baglioni, Osvaldo Gervasi, and **Damiano Perri**. "Visualizzazione dati per coaching report". tesi sperimentale, Laurea Triennale. University of Perugia, IT, Apr. 2023.
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- [11] Francesco Bietolini, Osvaldo Gervasi, and **Damiano Perri**. "Online assessment e sistemi di reportistica". tesi compilativa, Laurea Triennale. University of Perugia, IT, Apr. 2023.
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- [18] Andrea Capobianco, Osvaldo Gervasi, **Damiano Perri**, and Marco Simonetti. "Suspension of Disbelief: La Realtà Virtuale per estraniarsi dal mondo del Covid". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2022.
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- [20] Claudia Cherubini, Osvaldo Gervasi, and **Damiano Perri**. "L'importanza della teleriabilitazione post ictus nell'era del Covid-19: un prototipo di training". tesi sperimentale, Laurea Triennale. University of Perugia, IT, Apr. 2022.



- [21] Enzo Valentino Cristofaro, Osvaldo Gervasi, and **Damiano Perri**. “Tecniche di rendering tridimensionale”. tesi compilativa, Laurea Triennale. University of Perugia, IT, June 2022.
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- [23] Luca Spadoni, Osvaldo Gervasi, and **Damiano Perri**. “Aumento della User Experience (UX) in un sito per la gestione di conferenze”. tesi sperimentale, Laurea Triennale. University of Perugia, IT, Apr. 2022.
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- [29] Jacopo Burger, Osvaldo Gervasi, and **Damiano Perri**. “Disegno e implementazione di un teatro virtuale”. tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2021.
- [30] Francesco Giancristofaro, Osvaldo Gervasi, and **Damiano Perri**. “Implementazione della tipologia di domanda ‘Fill in the blanks’”. tesi sperimentale, Laurea Triennale. University of Perugia, IT, Oct. 2021.
- [31] Anis Ben Hamida, Osvaldo Gervasi, and **Damiano Perri**. “Tecniche di miglioramento della User Experience nell’e-assessment”. tesi sperimentale, Laurea Triennale. University of Perugia, IT, Oct. 2021.
- [32] Jacopo Marcucci, Osvaldo Gervasi, and **Damiano Perri**. “Import da Moodle a LibreEOL”. tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2021.
- [33] Arcangelo Pace, Osvaldo Gervasi, **Damiano Perri**, and Marco Simonetti. “Rappresentazione di funzioni in realtà aumentata”. tesi sperimentale, Laurea Triennale. University of Perugia, IT, Oct. 2021.
- [34] Andrea Pompili, Osvaldo Gervasi, **Damiano Perri**, and Marco Simonetti. “Gestione automatizzata dei dati sensibili di una pubblica amministrazione”. tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2021.
- [35] Mattia Presta, Osvaldo Gervasi, **Damiano Perri**, and Marco Simonetti. “Problematiche sull’uso dei Big Data in ambito IoT”. tesi compilativa, Laurea Triennale. University of Perugia, IT, Nov. 2021.
- [36] Aurora Brega, Osvaldo Gervasi, and **Damiano Perri**. “Importanza degli Shader per la Realizzazione dei Mondi Virtuali”. tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2020.
- [37] Michele Ceccarelli, Osvaldo Gervasi, and **Damiano Perri**. “Visita virtuale del museo civico del palazzo dei consoli a Gubbio”. tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2020.
- [38] Davide Cianca, Osvaldo Gervasi, and **Damiano Perri**. “Accelerazione di reti neurali su GPU”. tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2020.

- [39] Nalin Dhingra, Osvaldo Gervasi, **Damiano Perri**, and Marco Simonetti. "Integrazione delle piattaforme di Augmented Reality e Virtual Reality per Immersive Learning". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2020.
- [40] Carlo Giuseppe Genovesi, Osvaldo Gervasi, **Damiano Perri**, and Marco Simonetti. "Creazione del back-end di una procedura per la valutazione dell'impatto sulla privacy". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2020.
- [41] Alessandro Gionangeli, Osvaldo Gervasi, **Damiano Perri**, and Marco Simonetti. "Computazione quantistica e computazione classica: comparazione qualitativa tra ALU quantistica e ALU classica". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2020.
- [42] Sara Martinelli, Osvaldo Gervasi, and **Damiano Perri**. "Tra natura e Realtà aumentata: un prototipo di negozio online". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2020.
- [43] Marco Mencagli, Osvaldo Gervasi, **Damiano Perri**, and Marco Simonetti. "Analisi comparativa delle principali piattaforme Cloud per il calcolo quantistico". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2020.
- [44] Gabriele Moretti, Osvaldo Gervasi, **Damiano Perri**, and Marco Simonetti. "Implementazione di un ambiente virtuale 3D per l'Immersive Learning nel Web". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2020.
- [45] Alessandro Paolucci, Osvaldo Gervasi, **Damiano Perri**, and Marco Simonetti. "Principi del Quantum Computing spiegati in un ambiente immersivo". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2020.
- [46] Francesco Piconi, Osvaldo Gervasi, **Damiano Perri**, and Marco Simonetti. "Studio dell'Algoritmo di Shor e fattorizzazione di interi con Quantum Computers". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2020.
- [47] Alex Pierotti, Osvaldo Gervasi, **Damiano Perri**, and Marco Simonetti. "Visita Virtuale della Chiesa di San Giovanni di Gubbio". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2020.
- [48] Davide Pruscini, Osvaldo Gervasi, **Damiano Perri**, and Marco Simonetti. "Uso di Computer Quantistici per lo studio di sistemi elementari". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2020.
- [49] Gilberto Zinourov, Osvaldo Gervasi, and **Damiano Perri**. "Mondi immersivi come oblio in momenti di disorientamento". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2020.
- [50] Alex Dominici, Osvaldo Gervasi, and **Damiano Perri**. "Progettazione e sviluppo dell'applicazione CGIL". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2019.
- [51] Lorenzo Guerrini, Osvaldo Gervasi, **Damiano Perri**, Riccardo Magni, and Martina Fortunelli. "Prototipazione rapida per teleriabilitazione: sincronizzazione di Unity3D con il Service Nu!Reha". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2019.
- [52] Leonardo Marchi, Osvaldo Gervasi, and **Damiano Perri**. "Realtà Virtuale immersiva con HTC Vive e Unity3D". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2019.
- [53] Riccardo Tittarelli, Osvaldo Gervasi, **Damiano Perri**, Riccardo Magni, and Martina Fortunelli. "Comunicazione in rete per la prototipazione rapida di esercizi cognitivi per teleriabilitazione". tesi sperimentale, Laurea Triennale. University of Perugia, IT, 2019.

#### APPLICATIONS DEVELOPED FOR SMARTPHONES

2024 - now **My Unipg Job**

The My UniPG Job app was created for the University of Perugia to manage Job Placement and Career Day. The app was released in early May 2024 and is compatible with iOS and Android.

## 2023 Young Sparks Symposium

<https://www.unipg.it/ateneo/protezione-dati-personali/informative/yss>

The application was created for the University of Perugia to facilitate the organisation of the Young Sparks Symposium event. The event was held from 4 to 7 September 2023 in Solomeo. The app was programmed as a Hybrid App (with Capacitor, Ionic and Vanilla JS) and was compiled for Android and iOS.

## 2023 Night Clock

<https://play.google.com/store/apps/details?id=com.damianop.nightclock>

This app allows you to take advantage of the amoled displays of older smartphones to turn them into bedside alarm clocks. Unlike the always on displays built into operating systems, this app allows for some additional features. First of all, the time is horizontal and has a very large font to make it easier to read. Seconds are present. Every 5 seconds, the on-screen text shifts so as to avoid burn in and protect the life of the display. Below the time we find the date and the battery percentage. The battery percentage will turn green if the phone is plugged in. A tap on the display will activate the flashlight, turning the phone into a nightlight (I suggest setting the flashlight to minimum via your phone's settings so as not to overheat the LED lamp) A long tap will change the time format from 24 to 12 hours (am/pm)

## 2022 Visual Snow

<https://play.google.com/store/apps/details?id=com.damianop.visualsnow>

The application was created for a research project that aimed to implement an application for simulating the eyesight of people with Visual Snow. The application was made with Unity and published for Android.

## 2021 AR learning

<https://play.google.com/store/apps/details?id=com.vuforia.engine.BooksUnity>

The app was created for a research project that aimed to implement three-dimensional mathematical functions in an AR environment to facilitate the teaching of mathematics in high schools. The app was made with Unity and published for Android.

## WEBSITES CREATED OR ADMINISTERED

### 2015 – Now LibreEOL - UNIPG

<https://www.libreeol.org/>

Website for university examinations. It is currently used by the University of Perugia.

### 2024 – Now Backoffice Job Placement - UNIPG

url<https://backoffice.jobplacement.unipg.it/>

Platform created specifically for the administration of Job Placement and Career Day 2024 at the University of Perugia.

### 2022 – Now Participate - UNIPG

url<https://partecipa.unipg.it/>

Platform for conducting surveys and administering questionnaires, used by some faculty members of the University of Perugia.

### 2015 – Now ICCSA

<https://iccsa.org/>

Administers the website of the International Conference on Computational Science and Its Applications.

## 2015 – Now Electronic Submission System - ICCSA

<https://ess.iccsa.org/>

Administers the website of the Submission Site for the International Conference on Computational Science and Its Applications.

## 2020 – current Jitsi - ICCSA

[urlhttps://jitsi0.iccsa.org/](https://jitsi0.iccsa.org/)

Video conferencing platform used for conferencing. The platform is configured with scalable technology and leverages docker. The site is based on the open source project: Jitsi.

## 2015 – Now EChemTest

<https://echemtest.libreeol.org/>

Website for conducting university examinations in chemistry. The platform also allows the automated issuing of certifications for the EChemTest ECTN programme. The platform is used internationally.

## 2021 – attuale damianoperri.it

<https://www.damianoperri.it/>

Damiano Perri's personal website, written in html, php, javascript and css.

## 2021 – Now Master-tec

<https://www.master-tec.it/>

Website of a company specialising in marketing and innovation of products and services

## 2019 – Now Zaroli

<https://zaroli.it/>

Website of the Perugian painter Edmondo Zaroli. The site allows visitors to view the painter's works, and there is also an art gallery that can be explored using virtual reality visors.

## 2017 – 2021 Master-UP

<https://www.master-up.it/>

It was a website of a company specialising in marketing and innovation of products and services

## 2010 – 2011 Monte Malbe ITAS

<http://montemalbe.altervista.org/>

Website created for a study and research project on behalf of ITAS Giordano Bruno.

## SKILLS

Mother tongue Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Japanese	A1	/	A1	A1	/

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user  
[Common European Framework of Reference for Languages](#)

- Operative Systems**
- Linux: Ubuntu, Manjaro, Mint, Fedora, Kali
  - Microsoft: MS-DOS e Windows (Xp, Vista, 7, 8, 10, 11)
  - Apple: MacOS, iOS
  - Google: Android

- Programming languages**
- High level: JavaScript, PHP, Python, Java
  - Medium level: C, C++, C#
  - Logic programming: Prolog
  - Functional programming: Ocaml
  - Visual programming: LabVIEW

- Skills - cloud AWS**
- Virtual machines: EC2
  - Container: ECS, ECR
  - Database: RDS, Elastic Cache
  - Networks: VPC, ALB, NLB, NAT, Security Groups
  - Storage: EBS, EFS
  - Other tools: Certificate Manager, Cloudwatch, AWS Backup

- Other skills**
- Database: MySQL, MariaDB, AWS Aurora SQL, PostgreSQL
  - Markup: HTML 5, CSS
  - Main software: Unity, Blender, NetBeans, Visual Studio, PhpStorm, Sublime Text, Xcode, Docker, Portainer, phpMyAdmin
  - Server: configuration and maintenance of networking, creation of customised dockers for services, good knowledge of the Bash shell
  - Hardware: excellent skills in assembling and disassembling internal computer components and troubleshooting hardware problems in notebooks and desktop computers
  - Videowriting: LibreOffice, Open Office, Microsoft Office
  - Photo and Video editing: Photoshop, DaVinci Resolve, iMovie

- Communication skills**
- Excellent ability to interact with other people
  - Very good ability to adapt to multicultural environments
  - Diplomatic and respectful attitude towards the ideas and opinions of others

Digital competences	SELF-ASSESSMENT				
	Information Processing	Communication	Content creation	Safety	Problem solving
	Independent user	Independent user	Independent user	Independent user	Independent user

[Digital competences - Self-assessment grid](#)

**Other skills and interests** Chess, animal and DIY enthusiast

**Driving licence** B

**Marital status** Single

**Curiosities** During the school year 2010-2011 he was asked by the management of the technical institute "Giordano Bruno" to coordinate the work of two classes of the last year of the course aimed at the graphic elaboration of a project sponsored by the municipality of Corciano, aimed at the production of a website on Monte Malbe and the creation of a weather station. The site is still online <http://montemalbe.altervista.org/>, it is kept active as a memory.