 Curriculum vitae

PERSONAL INFORMATION	**Marina Marchisio Conte**

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ORCID ID https://orcid.org/0000-0003-1007-5404

Scopus ID: 7005465236   WoS ID: C-8395-2018
Nationality Italian

WORK EXPERIENCE

23/12/2019–Present **Full professor**
University of Torino - Department of Molecular Biotechnology and Health Sciences
SSD MAT/04 - Matematiche complementari, Settore concorsuale 01/AI - Logica matematica e matematiche complementari.
Main responsibilities: teaching duties, research activities, thesis and projects supervision, commissions for scholarships, research grants, collaborations, and exercise classes.

20/11/2020–Present **Rector's Delegate**
Rector's Delegate for the development and promotion of the University's Digital Education strategies

20/10/2022–Present **President of SUISS – Interdepartmental University School in Strategic Sciences**
University of Torino
Main responsibilities: management of two bachelor's and two master's degrees, 4 post graduated Masters.

1/10/2020–Present **Deputy director**
Deputy Director for Didactics of the Department of Molecular Biotechnology and Health Sciences

1/04/2022–Present **PhD Coordinator of the PhD Program in Scienze Strategiche e Giuridiche dell'Innovazione per la Difesa e la Sicurezza**
University of Torino and CASD - Centro Alti Studi per la Difesa (Roma)

1/04/2020–Present **Member of the of the Teaching Board of the PhD Program in Digital Humanities**
University of Torino and University of Genova

21/06/2019–Present **Deputy director of CIRDA**
CIRDA – Interdepartmental Center for Teaching Research and Teaching Update
Main responsibilities: the promotion and development of studies concerning didactic research, continuous training at schools and university with departmental and interdepartmental Third Mission initiatives.

16/02/2023–Present **President of Scientific Committee of Fondazione Filippo Burzio**

15/07/2020–15/09/2020 **Member of the Group of Experts on Digital Education in charge of preparing the Digital Education Action Plan 2021-27 of the European Union**
European Commission
Main responsibilities: collaboration for the preparation of a document aimed at outlining the European

Commission's vision for high-quality, inclusive and accessible digital education in Europe.

2015–2020	**Board member of 2i3t, the business incubator and technology transfer** University of Torino Main responsibilities: valorising the results of academic research by creating, promoting, and supporting new, knowledge-intensive businesses. Ideas that have blossomed from research and that are suitable for technology transfer are identified by scouting activities.
01/12/2022 - Present	**Member of the Executive Committee of the Teaching & Learning Centre** University of Torino
2004–Present	**Member of the OTP Commission (Orientation-Tutoring-Placement)** University of Torino Main responsibilities: coordination of orientation initiatives (incoming, ongoing and outgoing), coordination of orientation meetings (calendars, information material, courses, scientific dissemination) in collaboration with secondary schools of the territory, organization and rationalization of tutoring for students, promotion and coordination of the job placement.
2017–2019	**Member of the TARM Group** University of Torino TARM is the Test to Assess the Minimum Requirements to enrol at university. Main responsibilities: organization of the different disciplinary groups, supervision of test preparation, management of students taking the tests, develop and maintaining quality procedures for testing processes and events, coordinating budget and resources.
2013–Present	**Member of the University International Mobility Commission** University of Torino Main responsibilities: promote specific actions aimed to improve the level of internationalization of educational careers, with periods of study abroad, sign agreements with foreign prestigious universities, participate in European Community programmes and other international mobility programmes.
May 2019–Present	**Main reference for Planning of E-learning Projects** University of Torino – Department of Molecular Biotechnology and Health Sciences Main responsibilities: platform administrator, project management, instructional designer for all the modules in the Biotechnology Course.
2013–Present	**Member of the Inter-university Council of Strategic Sciences** University of Torino with the University of Modena and Reggio Emilia Main responsibilities: sustain a forum that fosters idea, exploration and problem solving, facilitate relationship and trust among and between presidents and senior campus officers, enable members to collaborate and cooperate.
2017–Present	**Member of the Scientific Council of Strategic Sciences Post Graduate Course** University of Torino Main responsibilities: management of initiatives and people devoted to providing information, support, representation, and advice on issues that affect postgraduate students.
01/11/2019–19/10/2022	**Vice-President of SUISS – Interdepartmental University School in Strategic Sciences** University of Torino

Main responsibilities: management of two bachelor's and two master's degrees, 4 post graduated Masters.

| 18/12/2013–13/10/2019 | **Chairperson of the Integrated course in Strategic Sciences** |

University of Torino

Main responsibilities: management of four degree courses, two bachelor's and two master's:

- Degree course in inter-university Strategic Sciences course with the University of Modena and Reggio Emilia (Code 055703), in agreement with the Ministry of Defence, Command for Training and Application School of the Army of Torino, Military Academy of Modena and University of Modena and Reggio Emilia, Class of Degrees in Defence and Security Sciences L / DS;
- Degree course in Strategic and Security Sciences (Code 055702), Class of Degrees in Defence and Security Sciences L / DS;
- Master of Science in Strategic and Military Sciences (Code 055504) in agreement with the Ministry of Defence, Command for Training and Application School of the Army of Torino, Class of Master's Degrees in Defence and Security Sciences LM / DS ;
- Master of Strategic Sciences (Code 055503) Class of the master's degrees in Defence and Security Sciences LM / DS.

| 01/10/2010–17/12/2013 | **Vice-Chairperson of the Integrated Course of Strategic Sciences** |

University of Torino

Main responsibilities: management of two bachelor's and master's degrees.

| May 2018–September 2018 | **Member of the working group to prepare the Framework for the second written test of mathematics for scientific high schools - Legislative Decree 62/2017** |

MIUR – General Directorate of the Italian Ministry of Education

Main responsibilities: making recommendations as discipline expert, developing a consistent approach to ensure testability, oversight preparation activities

| 01/05/2019–30/09/2019 | **Associate Professor** |

University of Torino – Department of Molecular Biotechnology and Health Sciences

SSD MAT/03 – Geometry

Main responsibilities: teaching duties, research activities, thesis and projects supervision, commissions for scholarships, research grants, collaborations, and exercise classes.

| 01/01/2005–30/04/2013 | **Associate Professor** |

University of Torino – Department of Mathematics "G. Peano"

SSD MAT/03 – Geometry

Main responsibilities: teaching duties, research activities, thesis and projects supervision, commissions for scholarships, research grants, collaborations, and exercise classes.

| 16/07/1999–01/01/2005 | **Researcher** |

University of Torino – Department of Mathematics "G. Peano"

SSD MAT/03 – Geometry

Main responsibilities: teaching duties, research activities, thesis and projects supervision, commissions for scholarships, research grants, collaborations, and exercise classes.

| 01/05/2017–30/09/2019 | **Postdoctoral Researcher** |

University of Torino – Department of Mathematics "G. Peano"

Main responsibilities: manage the research program "Problems of rationality for algebraic varieties", scientific manager of the program Prof. Alberto Conte

2006-2015	**Member of the Steering Committee of the C.C.S. in Mathematics**

University of Torino – Department of Mathematics "G. Peano"

Main responsibilities: guidance, direction, and control to the Mathematics course, monitoring the progress and quality, controlling and resolving conflicts.

October 2012–April 2019	**Member of the E-learning Commission**

University of Torino – Department of Mathematics "G. Peano"

Main responsibilities: management of initiatives and platform development, instructional designer for modules in the Mathematics Course.

October 2012–April 2019	**Member of the Didactic Commission**

University of Torino – Department of Mathematics "G. Peano"

Main responsibilities: management and coordination of didactics and exams for modules in the Mathematics Course.

October 2012–April 2019	**Member of the Website Commission**

University of Torino – Department of Mathematics "G. Peano"

Main responsibilities: supervision on the information available on the Department official website.

January 2014–April 2019	**Member of the Council**

University of Torino – School of Nature Sciences

Main responsibilities: management of bachelor's and master's degrees.

November 2018–April 2019	**Representative of the Department of Mathematics G. Peano**

Scientific Council of CIRDA - Interdepartmental Center for Teaching Research and Updating of Teachings

Main responsibilities: the promotion and development of studies concerning didactic research, continuous training at schools and university with departmental and interdepartmental Third Mission initiatives.

2013– Present	**Member of the Council of SUISS**

SUISS - Interdepartmental University School in Strategic Sciences

Main responsibilities: management of bachelor's and master's degrees.

2010–2019	**Member of the Commission for Student Practices, Erasmus and Internationalization, E-learning, Monitoring and Review, Orientation**

SUISS - Interdepartmental University School in Strategic Sciences

Main responsibilities: promote specific actions aimed to improve the different aspects of students' activities, like periods of study abroad or platform usage.

2006–2012	**Representative of the C.C.S. in Mathematics in the Laboratories Commission of the Faculty of Sciences MFN**

University of Torino – Department of Mathematics "G. Peano"

Main responsibilities: during the mandate, I attended also as a member of commissions for the award of tenders, of the computerized classroom of the Department of Mathematics.

Spring 2013	**Member of the electoral commission for the elections of the Rector**

University of Torino

Main responsibilities: make sure elections are run well, and that people have all the information they need.

July 2015–June 2018 **Representative of associate professors**

University of Torino

Main responsibilities: representation at the selection committee for the designation of candidates for the role of member of the Board of Directors of the University of Torino.

2012–Present **Member of the Scientific Committee of PP&S Problem Posing and Solving Project**

MIUR – General Directorate of the Italian Ministry of Education

Main responsibilities: the project aims to improve the teaching and learning of mathematics and computer science, I was responsible for Mathematics.

March 2017–February 2020 **Member of the Scientific Committee**

Collegio Universitario R. Einaudi of Torino

Main responsibilities: manage students numerous opportunities to enrich their cultural education with a series of activities, complementary to their university modules, promote further university modules, in agreement with the individual Degree Courses, recognized in terms of university credits by universities in Torino.

2015–Present **Member of the Scientific Council**

Italian E-Learning Society

Main responsibilities: expresses opinion on strategies and plan for the next years, on the budget as well as on the other topics, promote initiatives.

1994–Present **Member of the GNSAGA Group**

INDAM - National Institute of High Mathematics "Francesco Severi"

Main responsibilities: GNSAGA Group is the National Group for Algebraic, Geometric Structures and their Applications.

01/01/1995–Present **Member of UMI - Italian Mathematical Union**

Main responsibilities: editorial secretary of the Bulletin of UMI, the international scientific journal ISI published by UMI, from January 31, 1997 to December 31, 2007 and in that period I also collaborated with UMI for publications related to Projects UMI-CIIM

01/01/1995–Present **Member of the EMS**

EMS- European Mathematical Society

Main responsibilities: delegate of individual members of EMS from 2001 to 2005, delegate to the Council of EMS held in Torino on 1-2 July 2006

01/01/1995–Present **Member of the Board of directors of AIUM – Associazione Italiana Utilizzatori Moodle**

EMS- European Mathematical Society

Main responsibilities: delegate of individual members of EMS from 2001 to 2005, delegate to the Council of EMS held in Torino on 1-2 July 2006

2022–Present **Member of AICA – Associazione Italiana Calcolo Automatico**

July 2019–Present **Member of the Scientific Committee**

Annual Conference MoodleMoot Italy

Main responsibilities: expresses opinion on strategies and plan for the next years, on the budget as well as on the other topics, promote initiatives.

2016–Present **Member of the Reviewers Board**

Journal of e-Learning and Knowledge Society

Main responsibilities: review of submitted papers, support decisions of the Editorial board.

EDUCATION AND TRAINING

2004
Post-doctoral researcher in Algebraic Geometry
Universities of Utrecht and Leiden (Holland)

Within the EUROPEAN EAGER PROJECT - EUROPEAN ALGEBRAIC GEOMETRY RESEARCH TRAINING NETWORK, Contract Number HPRN-CT-2000-00099, lasting 2 months at the Universities of Utrecht and Leiden (Netherlands), to collaborate with professors E. Loojenga and J. P. Murre

11/11/1994–12/03/1999
Ph.D. in Mathematics
University of Torino, Torino (Italy)

PhD thesis in Algebraic Geometry: Unirational quartic hypersurfaces
Scientific Tutor: prof. Alberto Conte
Holder of a ministerial scholarship for the PhD in Mathematics X cycle Torino - Genova Consortium (11/11/1994 - 10/10/1998)

04/07/1994
Master's degree in Mathematics
University of Torino

Degree thesis: The varieties of Veronese
Speaker: prof. Alberto Conte
Score: 110/110 cum Laude

September 1993–August 1994
Scholarship for Undergraduate
National Research Council

In the field of Mathematical Sciences, Call n. 209.01.59 of 18/05/1993

1987–1988
Integrative Year
"E. De Amicis" School of Cuneo

Additional year prior to university enrolment.

July 1987
Secondary School Diploma
"E. De Amicis" School of Cuneo

Vote: 60/60 with Encomio

PERSONAL SKILLS

Mother tongue(s)
Italian

Foreign language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	B2	B2	C1
B1	B1	B1	B1	B1

English — C1 / C1 / B2 / B2 / C1
French — B1 / B1 / B1 / B1 / B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages - Self-assessment grid

Communication skills
Excellent written and verbal communication skills testified by numerous communications in international conferences. Good skills in speaking in public, to groups, or via electronic media. Excellent presentation and negotiation skills.

Organisational / managerial skills
Able to lead others in different situations, teamwork in international and multi-cultural environment,

good skills in coaching, guiding, delegating tasks or responsibilities. Demonstrated leadership and organizational abilities by the management of numerous projects. Strong ability to prioritize and operate proactively, handling challenges and several tasks simultaneously. I understand and appreciates the importance of a job well done. I am commended for reliability and trustworthiness.

Job-related skills

Team leader with a proven ability to train, supervise, motivate, and evaluate customer service representatives, with the ability to work efficiently and independently under pressure. I am up to date with changes in technology and business implications/applications of new technologies. I enjoy working with public and diverse populations.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital skills - Self-assessment grid

Specific tools:

- Learning management system: Moodle, as Administrator, Teacher and Student
- Advanced Computing Environment: Maple
- Physics simulation environment: MapleSim
- Automatic Assessment System: Möbius Courseware
- Statistics: Excel, Statistics, R, SPSS

AGREEMENTS

Bilateral Agreements

Foreign University: Theresan Military Academy Institute for Basic officer Training, Wiener Neustadt (Austria)
Italian contact person: Marchisio Marina
Foreign Referent: Gell Harald

Foreign University: Natsionalen Voenen Universitet "Vasil Levski", Veliko Tarnovo (Bulgaria)
Italian contact person: Marchisio Marina
Foreign Referent: Timova Diana

Foreign University: Universidad de Barcelona (Spain)
Italian contact person: Marchisio Marina
Foreign Referent: Marquez Luz Munoz

Foreign University: Ecoles Militaires de Saint-Cyr Coetqudam (France)
Italian contact person: Marchisio Marina
Foreign Referent: Taieb Moustafa

Foreign University: General Tadeusz Kosciuszko Military University of Land Forces, Wroclaw (Poland)
Italian contact person: Marchisio Marina
Foreign Referent: Bryjka Filip

Foreign University: "Nicolae Balcescu" Land Forces Academy, Sibiu (Romania)
Italian contact person: Marchisio Marina

Foreign Referent: Herman Ramona Helena

Foreign University: Royal Military Academy (Belgium)
Italian contact person: Marchisio Marina
Foreign Referent: Koen Troch

Foreign University: National University of Public Service, Budapest (Hungary)
Italian contact person: Marchisio Marina
Foreign Referent: Erzsebet Veres

Foreign University: Academia Militar de Lisboa (Portugal)
Italian contact person: Marchisio Marina
Foreign Referent: Paulo Machado

Foreign University: University of Defense, Brno (Czech Republic)
Italian contact person: Marchisio Marina
Foreign Referent: Hana Vlachová

Foreign University: GENEROLO JONO ZEMAICIO LIETUVOS KARO AKADEMIJA, Vilnius (Lituania)
Italian contact person: Marchisio Marina
Foreign Referent: MISELIENE EVELINA

Foreign University: National Defence Force G. S. Rakovski, Sofia (Bulgaria)
Italian contact person: Marchisio Marina
Foreign Referent: DIMITROV Miroslav

Foreign University: Universitatea Babes-Bolyai, Cluj-Napoca (Romania)
Italian contact person: Marchisio Marina
Foreign Referent: Dranca Ilona Diana

Foreign University: National Defence University Warsaw (Akademia Obrony Narodowej), Varsavia (Polonia)
Italian contact person: Marchisio Marina
Foreign Referent: Lebedziuk Agata

Foreign University: Polish Naval Academy, Gdynia (Polonia)
Italian contact person: Marchisio Marina
Foreign Referent: WYSOCKA MONIKA

Foreign University: Helmut Schmidt University, Amburgo (Germania)
Italian contact person: Marchisio Marina
Foreign Referent: NASSUA MARTIN

Foreign University: Uniwersytet Jagiellonski, Cracovia (Polonia)
Italian contact person: Marchisio Marina
Foreign Referent: Kulakowska Malgorzata

Foreign University: Università Bar-Ilan, Ramat Gan (Israel)

Italian contact person: Marchisio Marina

Foreign Referent: Daniel Schuval

Under definition

Foreign University: University of Rijeka (Rijeka) (Croatia)

Scientific Agreements

Agreement for Scientific Cooperation between University of Torino and University of Limerick (Ireland)

Italian Scientific Responsible: Marchisio Marina (Department of Molecular Biotechnology and Health Sciences)

Foreign Scientific Responsible: MARGARIA Tiziana (Department of Computer Science and Information Systems)

Under approval

Agreement for Scientific Cooperation between University of Torino and International Pacific University (Japan) and International Pacific University (New Zeland)

Italian Scientific Responsible: Marchisio Marina (Department of Molecular Biotechnology and Health Sciences)

Agreements

Financing contractors: Fondazione De Agostini

Title: Compiti@casa

Period: 01.10.2020 - 30.09.2023

Scientific responsible: Marchisio Marina

Financing contractors: Torino Wireless

Title: Agreement with Torino Wireless

Period: 01.04.2019 - 31.03.2021

Scientific responsible: Marchisio Marina

Funding contractors: Istituto Amaldi Sraffa

Title: Agreement with the Amaldi Sraffa Institute

Period: 01.02.2018 - 01.02.2021

Scientific responsible: Marchisio Marina

Funding contractors: Carlo Anti State Institute of Villafranca di Verona

Title: Framework agreement for scientific collaboration

Period: 23.03.2018 - 22.03.2021

Scientific responsible: Marchisio Marina

Funding contractors: MIUR - DGO

Title: Framework agreement for the implementation of the "PP&S - Problem Posing and Solving" Project

Period: 13.01.2013 - 31.08.2024

Scientific responsible: Marchisio Marina

Funding contractors: City of Torino

Title: Framework agreement for the realization of the "School of Tasks" Project
Period: 01.02.2013 - 30.09.2021
Scientific responsible: Marchisio Marina

Funding contractors: Istituto Amaldi Sraffa
Title: Agreement with the Amaldi Sraffa Institute
Period: 01.02.2018 - 31.01.2019
Scientific responsible: Marchisio Marina

Funding contractors: Galileo Ferraris High School
Title: Agreement with Galileo Ferraris Scientific High School - "STEM TRAINING Training Course"
Period: 30.01.2018 - 29.01.2021
Scientific responsible: Marchisio Marina

Funding contractors: CNR - IEIIT
Title: Agreement with CNR for the "Educating City" Project
Period: 07.03.2017 - 31.12.2017
Scientific responsible: Marchisio Marina

RESEARCH

Participation as a speaker to Italian and International conferences

Participation as a speaker at the GAEL 5 1997 conference, Luminy,
Lecture entitled: Abelian Surfaces and Products of Elliptic Curves
from 17-03-1997 to 21-03-1997

Participation as a speaker at the conference Workshop on Algebraic Surfaces, Lisbon, Conference
Lecture entitled: Abelian Surfaces and Products of Elliptic Curves
from 10-09-1997 to 14-09-1997

Participation as a speaker at the GAEL 6 1998 conference, Luminy,
Conference entitled: Unirational Quartic Hypersurfaces
from 23-03-1998 to 27-03-1998

Participation as a speaker at the Conference on Algebraic Geometry Days and Related Topics IV, Siena,
Lecture entitled: Some new examples of unirational smooth quartic hypersurface of P4
from 20-05-1998 to 21-05-1998

Participation as a speaker at the International Algebra Convention dedicated to A. G. Kurosh, Moscow
Lecture entitled: On a Theorem of Morin on the Unirationality of the Quartic Fivefold
from 25-05-1998 to 30-05-1998

Participation as a speaker at the International Congress of Mathematicians 1998, ICM '98, Berlin,
Communication entitled: Some New Examples of Smooth Unirational Quartic Threefolds
from 17-08-1998 to 27-08-1998

Participation as a speaker at the National Conference of the G.N.S.A.G.A., Perugia,

Lecture entitled: Abelian surfaces and products of elliptic curves

from 06-11-1998 to 08-11-1998

Participation as a speaker at the Conference "Conference on Commutative Algebra and Algebraic Geometry", Messina,

Lecture entitled: A 54- (114-) dimensional Family of Smooth Unirational Quartic3- (4-) folds

from 16-06-1999 to 20-06-1999

Participation as a speaker at the XVI National Congress of the Italian Mathematical Union, Naples,

Communication entitled: A family of size 54 (114) of unirational smooth quartic hypersurface of size 3 (4)

from 13-09-1999 to 18-09-1999

Participation as a speaker at the conference Rationality Problems for Algebraic Varieties, Torino

Conference entitled: A 54- (114-) dimensional Family of Smooth Unirational Quartic 3- (4-) folds

from 28-10-1999 to 31-10-1999

Participation as a speaker at the Algebraic varieties conference, Rome

Lecture entitled: Some problems of unirationality

from 19-01-2002 to 20-01-2002

Participation as a speaker at the 2002 International Mathematics Congress, ICM '02, Beijing (China),

Communication entitled: The Unirationality of Double Covers of Projective r-Spaces of Fixed Degree and Large Dimension

from 20-08-2002 to 28-08-2002

Participation as a speaker at the conference V International Conference "Stochastic Geometry, convex bodies, empirical measures & applications to engineering, medical and earth sciences", Mondello,

Conference entitled: The Unirationality of Double Covers of Projective r-Spaces of Fixed Degree and Large Dimension

from 06-09-2004 to 11-09-2004

Participation as a speaker at the VI International Conference on "Stochastic Geometry, Convex Bodies, Empirical Measure & Applications to Mechanics and Engineering of Train Transport", Milazzo

Lecture entitled: On the k-Unirationality of the Cubic Complex

from 30-05-2007 to 03-06-2007

Participation as a speaker at the MoodleMoot conference, Torino

Conference entitled: Interactive remote tutoring: Moodle, OpenMeetings and AdobeConnect

from 08-05-2009 to 09-05-2009

Participation as a speaker at the MoodleMoot conference, Torino

Conference entitled: Moodle, Maple, MapleNet and MapleTA: From lesson to evaluation

from 08-05-2009 to 09-05-2009

Participation as a speaker at the MoodleMoot conference, Torino

Lecture entitled: Studying Mathematics with Moodle and Maple

from 08-05-2009 to 09-05-2009

Participation as a speaker at the 2012 Didactic Conference, Taranto

Speech in the "Informatics and Problem Solving" Round Table

from 14-05-2012 to 16-05-2012

Participation as a speaker at the MoodleMoot conference, Livorno,

Conference entitled: Moodle & Maple: An Integrated Structure at the service of the MIUR Problem Posing and Solving Project (PP&S100)

from 05-10-2012 to 06-10-2012

Participation as a speaker at the Didamatica 2013 conference, Pisa

Conference entitled, PP&S100: a community of collaborative learning communities through new technologies

from 07-05-2013 to 09-05-2013

Participation as a speaker at the Scientific Summer Academy, Torino

Conference entitled: Doing Mathematics with the Computer: Computer Algebra Systems and Advanced Computing Environments

from 17-06-2013 to 21-06-2013

Participation as a speaker at the MoodleMoot 2013 conference, Ancona

Speech entitled: The Moodle platform at the service of school recovery in the "School of Tasks" project of the City of Torino

from 19-09-2013 to 20-09-2013

Participation as a speaker at the Didamatica 2014 conference, Naples

Conference entitled: Tutoring with new technologies to reduce school failure and encourage the learning of mathematics in secondary school

from 07-05-2014 to 09-05-2014

Participation as a speaker at the Didamatica 2014 conference, Naples,

Conference entitled: The PP&S Project. Computer science at school

from 07-05-2014 to 09-05-2014

Speech in the plenary session "European key competences and industrial renaissance" at the Didamatica 2014 conference, Naples

from 07-05-2014 to 09-05-2014

Participation as a speaker at the Forum PA conference, Rome, Conference entitled: PP&S Dynamic interaction between computer science and mathematics in problem posing and solving

from 27-05-2014 to 29-05-2014

Participation as a speaker at the MoodleMoot conference, Padova

Conference entitled: Teacher Training on the National Territory: the experience of the PP&S in the creation of a Community of Practice for Mathematics in Secondary Schools

from 20-06-2014 to 21-06-2014

Participation as a speaker at the conference on Mathematics and IT. An opportunity to update content and methods, Torino

Conference entitled: Teacher training and PPS initiation

from 04-09-2014 to 06-09-2014

Participation as a speaker at the conference Elaboration of Simulations of Second Tests relating to the 2014-2015 State Exams at the end of the first five years of application of the National Indications, Rovigo

Conference entitled: PP&S and state exams

from 29-09-2014 to 30-09-2014

Participation as a speaker at 2014 Maple T.A. User Summit, Amsterdam

Lecture entitled: Strong and wide use of Maple T.A. to better prepare high school students for University

from 22-10-2014 to 24-10-2014

Participation as a speaker at the Science Festival - Genova

Speech entitled: National project for mathematics

from 24-10-2014 to 02-11-2014

Participation as a speaker at the IT, Mathematics and Society Seminar, Job & Orienta, Verona

from 21-11-2014 to 21-11-2014

Participation as a speaker at the Opening Conference SMART Science and Mathematics Advanced Research for good Teaching, Rome

Title of the intervention: Advanced Computing Environment and problem solving in the teaching of Mathematics

from 03-02-2015 to 03-02-2015

Participation as a speaker at the Didactic 2015 conference, Genova Conference entitled: School of Tasks. Digital teaching for the recovery of school failure

from 15-04-2015 to 17-04-2015

Participation as a speaker at the Didamatica 2015 conference, Genova

Conference entitled: Mathematics and SMART Sciences for Teaching and Learning

from 15-04-2015 to 17-04-2015

Participation as a speaker at the Maple TA Summit New York conference

Lecture entitled: European SMART Project Adopts Maple T.A. (with A. Conte)

from 15-06-2015 to 17-06-2015

Participation as a speaker at the Maple TA Summit New York conference

Lecture entitled: University of Torino: Using Maple T.A. and Moodle for richer learning experience (with A. Barana)

from 15-06-2015 to 17-06-2015

Participation as a speaker at the IEEE 39th Annual Computer Software and Applications Conference

(COMPSAC), Taiwan

Lecture entitled: Problem Posing and Solving: Strategic Italian Key Action to Enhance Teaching and Learning Mathematics and Informatics in the High School

from 01-07-2015 to 05-07-2015

Participation as a speaker at the IEEE 39th Annual Computer Software and Applications Conference (COMPSAC), Taiwan

Lecture entitled: Automated Assessment in Mathematics

from 01-07-2015 to 05-07-2015

Participation as organizer in the Didamatica 2015 conference, Genova

from 09-09-2015 to 11-09-2015

Participation as a speaker at the Problem Posing conference: for a constructivist approach to Mathematics, Physics and Sciences, Rovereto

Lecture entitled: The evaluation of a math problem

from 01-10-2015 to 03-10-2015

Participation as a speaker at the Education Festival, Torino

Conference entitled: A project for educational success: Scuola dei compiti

from 12-11-2015 to 15-11-2015

Seminar "MATHEMATICS AND SMART SMART SCIENCES": an Erasmus + teacher training project, Job & Orienta Verona

Title of the intervention: From training needs to project objectives in the field of Mathematics and Sciences

from 27-11-2015 to 27-11-2015

Participation as a speaker at the Didamatica 2016 conference, Udine

Conference entitled: The effectiveness of online learning of digital immigrants. SMART experience for scientific disciplines, (with A. Brancaccio, M. Esposito, C. Pardini)

from 19-04-2016 to 21-04-2016

Participation as a speaker at the Didamatica 2016 conference, Udine

Conference entitled: From the experience of Digital Mate Training to the activity of Alternanza Scuola Lavoro, (with A. Barana)

from 19-04-2016 to 21-04-2016

Participation as a speaker at the Conference: Scuola dei compiti tells its story: a comparison on the experience for recovery and school success at the service of the community, Torino

from 26-04-2016 to 26-04-2016

Participation as a speaker at the Second SMART Multiplier Event conference at the Book Fair, Torino

from 12-05-2016 to 12-05-2016

Participation as a speaker at the Supernova Creative Innovation Festival, Torino

Speech entitled: School 2.0: new frontiers of digital learning

from 27-05-2016 to 29-05-2016

Participation as a speaker at the 2nd International Conference on Higher Education Advances (HEAd'16) Valencia

Conference entitled: Ten good reasons to adopt an automatic formative assessment model for learning and teaching Mathematics and scientific disciplines (with A. Barana)

from 20-06-2016 to 22-06-2016

Participation as a speaker at the 2nd International Conference on Higher Education Advances (HEAd'16) Valencia

Conference entitled: Digital support for university guidance and improvement of study results (with A. Barana)

from 20-06-2016 to 22-06-2016

Participation as a speaker at the EMEMITALIA 2016 conference, Modena

Conference title: Advanced E-Learning Training for Army Officers Through Virtual Learning Environments (with E. Spinello, G. Torbidone, S. Rabellino).

from 07-09-2016 to 09-09-2016

Participation as a speaker at the EMEMITALIA 2016 conference, Modena

Conference entitled: The Moodle platform at the service of the assessment test of minimum requirements (TARM) for entry to the university (with. A. Barana, A. Bogino, M. Fioravera, S. Rabellino).

from 07-09-2016 to 09-09-2016

Participation as a speaker at the EMEMITALIA 2016 conference, Modena

Keynote conference in the conference.

Conference title: Open platform of self-paced MOOCS for the continual improvement of academic guidance and knowledge strengthening in tertiary education (with. A. Barana, M. Fioravera, S. Rabellino).

from 07-09-2016 to 09-09-2016

Participation as a speaker at the EMEMITALIA 2016 conference, Modena

Keynote conference in the conference.

Conference title: Assessment of individual and collaborative e-learning in problem solving activities (with. A. Barana, S. Rabellino).

from 07-09-2016 to 09-09-2016

Participation as a speaker at the EMEMITALIA 2016 conference, Modena

Conference entitled COSAM: Online Course for the Development of Mathematical Skills to facilitate the transition between first and second grade secondary school (with A. Barana).

from 07-09-2016 to 09-09-2016

Participation as a speaker at The SMART Project Conference: past, present and future for Mathematics and Science teaching, Torino

Speech entitled: The Mathematics Open Online Course and access modalities

from 11-10-2016 to 11-10-2016

Participation as an expert in the Maple TA evaluation system at the Maple TA Summit Vienna conference

Conference: Automatic assessment with Maple T.A. for the development of the competences in

Mathematics

from 19-10-2016 to 21-10-2016

Participation as a speaker at the Education Festival, Torino

Conference entitled: The introduction of digital teaching to encourage learning (with A. Balbo, A. Barana, B. Kircos).

from 23-11-2016 to 27-11-2016

Participation as coordinator of a thematic group at the conference: Mathematics, physics and science in the reality of everyday life and in the abstract of the imaginary, Bologna

Developed theme: Modelling reality and formalizing

from 01-12-2016 to 03-12-2016

Participation as a speaker at the Invited Conference Digital synergies between Latin and mathematics: the Lagrange and Cicero computer project with A. Balbo for the digital culture laboratory – Master's degree in humanities computing, University of Pisa

from 29-03-2017 to 29-03-2017

Participation as a speaker at the conference: 13th International Conference eLearning and Software Education, Bucharest

Conference entitled: Problem Solving competence developed through a virtual learning environment in a European context, (with A. Barana)

from 27-04-2017 to 28-04-2017

Participation as a speaker at the conference: 13th International Conference eLearning and Software Education, Bucharest

Conference entitled: E-Learning as Winning Tool for Supporting Teaching and for Enhancing the Internationalization Processes (with E. Spinello, G. Torbidone).

from 27-04-2017 to 28-04-2017

Participation as a speaker at the DIDAMATICA 2017 conference, Rome

Conference entitled: Developing problem solving and collaborative working skills in school-work alternation through Digital Mate Training (with A. Barana).

from 15-05-2017 to 16-05-2017

Participation as a speaker at the DIDAMATICA 2017 conference, Rome

Conference entitled: New Technologies and Methodologies for the Training of Army Officers 4.0, (with E. Spinello).

from 15-05-2017 to 16-05-2017

Participation as a speaker at the international conference "RESEARCH DAYS IN COMMUTATIVE ALGEBRA AND COMBINATORICS", Messina

Lecture entitled: The Bases of Gröbner at the service of students (with A. Conte).

from 23-05-2017 to 25-05-2017

Participation as a speaker at the International Symposium on the Development of Military Academies (ISoDoMA) conference, Montreal, Canada

Conference entitled: Strengths for a Balanced Learning System for Officers Well Prepared for future challenges (with E. Spinello).

from 29-05-2017 to 02-06-2017

Participation as a speaker at the 3rd International Conference on Higher Education Advances (HEAd'17), Valencia

Conference entitled: Teacher training: a model for introducing innovative digital Methodologies for learning Mathematics (with A. Barana).

from 21-06-2017 to 23-06-2017

Participation as a speaker at the 3rd International Conference on Higher Education Advances (HEAd'17), Valencia

Conference entitled: Developing problem solving competences through the resolution of contextualized problems with an Advanced Computing Environment (with A. Barana).

from 21-06-2017 to 23-06-2017

Participation as a speaker at the IEEE 41st Annual Computer Software and Applications Conference (COMPSAC), Torino

Conference entitled: Adaptive teaching supported by ICTs to reduce the school failure in the Project "School of Tasks" (with A. Barana, M. Fioravera).

from 04-07-2017 to 08-07-2017

Participation as a speaker at the IEEE 41st Annual Computer Software and Applications Conference (COMPSAC), Torino

Lecture entitled: Self-paced approach in synergistic model for supporting and testing students: The transition from Secondary School to University (with A. Barana, M. Fioravera)

from 04-07-2017 to 08-07-2017

Participation as a speaker at the Ememitalia 2017 conference, Bolzano

Conference entitled: Use of near-real-time tools to conduct a practical exercise in the military field (with E. Spinello, G. Torbidone).

from 30-08-2017 to 01-09-2017

Participation as a speaker at the Ememitalia 2017 conference, Bolzano

Lecture entitled: A Model for Structuring Shared Learning Materials within a Virtual Community (with M. Fioravera)

from 30-08-2017 to 01-09-2017

Participation as a speaker at the Ememitalia 2017 conference, Bolzano

Keynote conference in the conference.

Conference title: Developing Problem Solving competences with CLIL methodology through innovative technologies.

from 30-08-2017 to 01-09-2017

Participation as a speaker at the Ememitalia 2017 conference, Bolzano

Keynote conference in the conference.

Conference title: Designing MOOCs for teacher training according to their needs and disciplinary topics (with C. Pardini).

from 30-08-2017 to 01-09-2017

Participation as a speaker at the Ememitalia 2017 conference, Bolzano

Lecture entitled: Orient@mente and TARM to reflect on students' mathematical skills (with M.

Fioravera)

from 30-08-2017 to 01-09-2017

Participation as a speaker at the Didacta 2017 Fair, Firenze, 27-29 September 2017.

Lecture entitled: Laboratory teaching for mathematics. National projects (with A. Barana, C. Demartini, C. Pardini).

from 27-09-2017 to 29-09-2017

Participation as a speaker at the conference: Transforming Online Education, Maple T.A. and Möbius User Summit, Torino

Keynote 1 conference entitled: Experience of the University of Torino in International, National and Local Projects

from 12-10-2017 to 12-10-2017

Participation as a speaker at the seminar "INVALSI data: a tool for research", Firenze

Speech entitled: INVALSI tests for the development of mathematical skills and problem solving

from 17-11-2017 to 18-11-2017

Participation as a speaker at the Seminar of Classical Languages and Civilizations, Liceo Tasso Salerno

Conference entitled: Interdisciplinary synergies between Latin and mathematics: The Lagrange and Cicero computer project and the experience of the School of Tasks (with A. Balbo).

from 30-11-2017 to 30-11-2017

Participation as a speaker at the conference: Epistemological permeability between Mathematics, Sciences and Philosophy, University of Rome3, Rome, 23 February 2018

Speech in the round table entitled: Learning environments for effective didactics of Mathematics, Sciences and Philosophy.

from 23-02-2018 to 23-02-2018

Participation as a speaker at the conference Festival of Languages, Iprase, Rovereto

Conference entitled: Italian (but not only) monolingual and bilingual dictionaries on the net. Tools to learn more about Italian in its changes and in relation to other languages, (with C. Marello)

from 08-03-2018 to 10-03-2018

Participation as a speaker at the conference: 14th International Scientific Conference eLearning and Software Education, Bucharest

Conference entitled: Online asynchronous collaboration for enhancing teacher professional knowledges and competencies, (with M. Fioravera)

from 19-04-2018 to 20-04-2018

Participation as a speaker at the conference: 14th International Scientific Conference eLearning and Software Education, Bucharest

Lecture entitled: The COMFOR-SA Virtual Learning Center becomes a special hub for gaining new modern standards for the IT-Army e-learning programs, (with E. Spinello)

from 19-04-2018 to 20-04-2018

Participation as a speaker at the conference: 14th International Scientific Conference eLearning and Software Education, Bucharest

Conference entitled: Alignment of content, prerequisites and educational objectives: towards

automated mapping of digital learning resources, (with M. Fioravera)

from 19-04-2018 to 20-04-2018

Participation as a speaker in the cycle of conferences 2017/18 foreseen as training activities for students at the University College of Torino "Renato Einaudi", 24/05/2018.

Conference entitled: An Evolved Computing Environment for Problem Solving, for the world of work, for research and for teaching, (with A. Conte and A. Barana).

Participation in the Transforming online education (DigitalEd) conference as panellist of the round table entitled Collaborative Discussion on Education, Pedagogy, & Outreach Copenhagen, 13-14 June 2018

Participation as a speaker at the 4th International Conference on Higher Education Advances (HEAd'18), Valencia

Lecture entitled: Realignment Course in Mathematics: design of an online valuable experience for students (with A. Barana)

from 20-06-2018 to 22-06-2018

Participation as a speaker at the 4th International Conference on Higher Education Advances (HEAd'18), Valencia

Conference entitled: Sharing system of learning resources for adaptive strategies of scholastic remedial intervention (with A. Barana)

from 26-06-2018 to 28-06-2018

Participation as coordinator and speaker, together with Paolo Malfetti, Carlo Mariconda, Pier Giuseppe Rossi at the Digital Teaching / Learning Technologies table during the conference "The magnificent meetings 2018", University of Udine

from 20-06-2018 to 22-06-2018

Participation as a speaker at the IEEE 42nd Annual Computer Software and Applications Conference (COMPSAC), Tokyo (Japan)

Conference entitled: A model of formative automatic assessment and interactive feedback for STEM

from 23-07-2018 to 27-07-2018

Participation as a speaker at the IEEE 42nd Annual Computer Software and Applications Conference (COMPSAC), Tokyo (Japan)

Conference entitled: Towards adaptive systems for automatic formative assessment in virtual learning communities

from 23-07-2018 to 27-07-2018

Participation as a speaker at Didacta 2018

Conference entitled: "Adaptive" strategies supported by ICT for the successful learning of Mathematics "(with A. Barana, A. Conte, F. Fissore, F. Floris, C. Pardini). Immersive workshop presented at the Didacta Fair (INDIRE), Firenze, 10/19/2018.

Participation as a speaker at Didacta 2018

Conference entitled: "Mathematical exploration with problem posing and solving" (with A. Barana, A. Conte, F. Fissore, F. Floris, C. Pardini). Immersive workshop presented at the Didacta Fair (INDIRE), Firenze, 10/19/2018.

Participation as a speaker at the Futura Biella event.

Conference entitled: Adaptive teaching and learning with ICT in mathematics education (with A. Barana). Workshop for teachers presented within the Teachers Matter of Futura Biella (National Digital School Plan, MIUR). Biella, 6 November 2018.

Participation as a speaker at the conference: III Seminar "INVALSI data: a tool for research". Bari, 10/27/2018.

Conference entitled: From formulas to models. An interactive path with INVALSI questions (with A. Barana).

from 26-10-2018 to 28-10-2018.

Participation as a speaker at the conference: Technology Enhanced Assessment (TEA). Amsterdam, 11/12/2018.

Conference entitled: Advantages of the Use of Formative Automatic Assessment for Learning Mathematics (with A. Barana).

from 11-12-2018 to 12-12-2018.

Participation as a speaker at the conference: "Higher Education Going Global: Contemporary challenges for Educational Science", a meeting of the working group for collaboration between the Conference of Italian Universities Rectors (CRUI) and the Association of Russian Higher Educational Institutions "Global Universities" .

Lecture entitled: Start@unito: open online courses for improving access and for enhancing success in Higher Education.

from 12-12-2018 to 14-12-2018.

Participation as a speaker in the afternoon of studies: Digital humanities and teaching of Latin. Torino, 21/01/2019.

Conference entitled: Common materials and methods for a multimedia teaching of Latin and mathematics.

from 21-01-2019 to 21-01-2019.

Participation as a speaker at the conference: Elaborations Simulations of Mathematics and Physics Tests and Evaluation of Evaluation Grids, Free University of Bolzano.

Conference entitled: Reference framework for the preparation and conduct of the second written test of the Mathematical State exam

from 4-02-2019 to 7-02-2019.

Participation as a speaker at the conference: Eleventh Congress of the European Society for Research in Mathematics Education (CERME 11). Utrecht, 7/02/2019

Conference entitled: Strategies of formative assessment enacted through automatic assessment in blended modality (with A. Barana).

from 6-02-2019 to 10-02-2019.

Participation as a speaker at the Futura Cuneo event.

Conference entitled: Digital Math Training to develop mathematical, digital and problem-solving skills (with A. Barana). Workshop for teachers presented within the Teachers Matter of Futura Cuneo (National Digital School Plan, MIUR). Cuneo, February 26, 2019.

Participation as a speaker at the Futura Cuneo event.

Lecture entitled: Mathematical exploration with the

Problem Posing and Solving (with C. Fissore). Workshop for teachers presented within the Teachers Matter of Futura Cuneo (National Digital School Plan, MIUR). Cuneo, February 26, 2019.

Participation as a speaker at the conference: Colloquium Augusteum - The classical world and science, Torino 1 March 2019

Lecture entitled: The space of the classical world,

from 1-03-2019 to 1-03-2019

Participation as a speaker at the conference: 15th International Scientific Conference eLearning and Software Education, Bucharest

Conference entitled: The Role of an Advanced Computing Environment in Teaching and Learning Mathematics through Problem Posing and Solving,

from 11-04-2019 to 12-04-2019

Participation as a speaker at the conference: 15th International Scientific Conference eLearning and Software Education, Bucharest

Lecture entitled: Adapting STEM Automated Assessment System to Enhance Language Skills,

from 11-04-2019 to 12-04-2019

Participation as a speaker at the conference: 15th International Scientific Conference eLearning and Software Education, Bucharest

Lecture entitled: A Full Spectrum Lifelong e-Learning Project for the Army, (with. E. Spinello)

from 11-04-2019 to 12-04-2019

Participation as a speaker at the conference: 11th International Conference on Computer Supported Education (CSEDU 2019), Heraklion (Crete)

Lecture entitled: MATE-BOOSTER: design of an e-learning course to boost mathematical competence, (with. A. Barana)

from 02-05-2019 to 04-05-2019

Participation as a speaker at the conference: 11th International Conference on Computer Supported Education (CSEDU 2019), Heraklion (Crete)

Lecture entitled: Start@unito: Open Online Courses for Improving Access and for Enhancing Success in Higher Education

from 02-05-2019 to 04-05-2019

Participation as a speaker at the conference: SIRD-SIe-L Learning Analytics international conference. For a dialogue between teaching practices and educational research, La Sapienza University, Rome

Conference entitled: Learning Analytics for formative evaluation

from 10-05-2019 to 11-05-2019

Participation as a speaker at the conference: SIRD-SIe-L Learning Analytics international conference. For a dialogue between teaching practices and educational research, La Sapienza University, Rome

Conference entitled: Learning Analytics to improve online teaching and learning

from 10-05-2019 to 11-05-2019

Participation as a speaker at the conference: Didamatica 2019 (AICA), Mediterranean University of Reggio Calabria

Conference entitled: Analysis of computational thought processes at the basis of the creation of animated graphics for problem solving

from 16-05-2019 to 17-05-2019

Participation as a speaker at the conference: Didamatica 2019 (AICA), Mediterranean University of Reggio Calabria

Lecture entitled: BYOD to learn algebra interactively

from 16-05-2019 to 17-05-2019

Participation as a speaker at the conference: International Conference of the Journal "Democratic School" Education and Post-Democracy, University of Cagliari

Conference entitled: Interactive Pathway for an Inclusive Mathematics Education

from 06-06-2019 to 08-06-2019

Participation as a speaker at the 5th International Conference on Higher Education Advances (HEAd'19), Valencia

Conference entitled: Bridge the gap between high school systems with less than twelve years of schooling and European Universities

from 26-06-2018 to 28-06-2019

Participation as a speaker at the conference: CODAU - Conference of the General Managers of University Administrations, La Sapienza University, Rome

Conference entitled: Digital Learning Environment

July 5, 2019

Participation as a speaker at the IEEE 43rd Annual Computer Software and Applications Conference (COMPSAC), MILWAUKEE, WISCONSIN, USA

Conference entitled: Empowering Engagement through Automatic Formative Assessment

from 15-07-2018 to 19-07-2019

Participation as a speaker at Didacta 2019:

Conference entitled: Design of activities for automatic formative assessment for Mathematics (with A. Barana, A. Conte, M. Esposito, F. Fissore, F. Floris, C. Pardini). Immersive workshop presented at the Didacta Fair (INDIRE), Firenze, 11/10/2019.

Participation as a speaker at Didacta 2019:

Lecture entitled: Problem posing in mathematics (with A. Barana, A. Conte, M. Esposito, F. Fissore, F. Floris, C. Pardini). Immersive workshop presented at the Didacta Fair (INDIRE), Firenze, 10/10/2019

Participation as a speaker at MoodleMoot 2021. Torino, 2-4 dicembre 2021

Participation as a speaker at Didacta 2022, Indire, Firenze, 20-22/05/2022:

Lecture entitled: "Didattica integrata della matematica in uno scenario hybrid" (with A. Brancaccio, A. Conte, F. Fissore, F. Floris, C. Pardini, M. Sacchet). Immersive workshop presented at the Didacta Fair

Lecture entitled: "Matematica e Intelligenza Artificiale: la protezione dei dati nell'era digitale" (with A. Brancaccio, A. Conte, F. Fissore, F. Floris, C. Pardini, M. Sacchet). Immersive workshop presented at the Didacta Fair

A. Brancaccio, M. Marchisio, C. Pardini, A. Conte, C. Fissore, "Didattica ibrida e adattiva", Conferenza al JOB&Orienta 2022, Verona, 25/11/22

C. Fissore, F. Floris, M. Marchisio, M. Sacchet, "Didactic activities on artificial intelligence: the

perspective of stem teachers", The 19th international conference on Cognition and Exploratory Learning in the Digital Age (CELDA 2022), 8/11/22

C. Fissore, F. Floris, M. Marchisio, "Maple for the development of problem solving skills in upper secondary school", Convegno "Maple Conference 2022", 3/11/22

C. Fissore, F. Floris, V. Fradiante, M. Marchisio, S. Rabellino, "Percorsi di PCTO con Moodle per un orientamento formativo e per far scoprire le figure professionali formate dalla scuola di medicina dell'Università di Torino", Convegno Moodlemoot 2022, Urbino, 24/9/2022

V. Bonanzinga, F. Casasso, C. Fissore, V. Fradiante, M. Marchisio. "University training for future primary school teachers on automatic formative assessment", Conference "EL2022: 16th International Conference on e-Learning", Online, 20/7/22

Organization of Italian and International Scientific Conferences	Organizer of the 3rd AGE conference - Algebraic Geometry in Europe - Annual Scientific Review and Business Meeting, Torino, from 11-12-1997 to 14-12-1997

Organizer of the GAEL 6 conference - Géométrie Algébrique en Liberté -1998, Luminy,
from 23-03-1998 to 27-03-1998

Organizing Committee of the Conference on "Current Trends in Mathematics", on the meeting of the Executive Committee of the International Mathematical Union (UMI), Rome,
from 01-04-1998 to 02-04-1998

Organizer of the Workshop "Mathematics and Music", meeting in view of the Diderot Mathematical Forum dedicated to Mathematics and Music organized by the European Mathematical Society of December 1999, Torino,
from 11-09-1998 to 13-09-1998

Organizer of the international Workshop "Rationality Problems for Algebraic Varieties", included within the National Research Project ex40% entitled "Algebraic Geometry, Commutative Algebra and computational aspects", Torino,
from 28-10-1999 to 31-10-1999

Organizer of the exhibition "I due Volti del Sapere. One hundred and fifty years of the Faculties of Sciences and Letters in Torino", Torino,
from 16-12-1999 to 24-03-2002

Organizer of the "Trio in Algebraic Geometry" Workshop, part of the National Research Project ex40% entitled "Geometry on 'algebraic varieties", Torino,
from 22-03-2002 to 22-03-2002

Organizer of the International Conference "The Fano Conference", Torino,
from 28-09-2002 to 05-10-2002

Organizer of the Exhibition on Gino Fano, Torino, 28 September - 28 October 2002
from 28-09-2002 to 28-10-2002

Organizer of the conference School and Workshop on "Topological invariants, enumerative geometry and dualities in physics", Torino
from 08-03-2004 to 14-03-2004

Organizer of the conference Council of the E.M.S., European Mathematical Society, Torino,
from 01-07-2006 to 02-07-2006

Organizer of the Italian French Joint Meeting of SMF, SIMAI, SMAI, UMI "Mathematics and its Applications", Torino,
from 03-07-2006 to 07-07-2006

Organizing committee and program committee of the MoodleMoot conference, Torino
from 08-05-2009 to 09-05-2009

Local organizer of the INDAM Day, Torino
from 05-06-2009 to 05-06-2009

Organizer of the After-Carnival Convention: An Algebraic Geometry Party at Torino, Torino,
from 18-19 February 2010

Organizer of the Geometry of algebraic varieties conference dedicated to Alberto Conte on his 70th birthday, Torino,
from 21-03-2012 to 23-03-2012

Organizer of the conference Residential Training Seminar - PP&S project, Rome,
from 05-09-2013 to 07-09-2013

Organizer of the Homage to Corrado Segre Conference, Torino
from 28-11-2013 to 30-11-2013

Coordinator of working groups of the Problem Posing conference: for a constructivist approach to Mathematics, Physics and Sciences, Rovereto
from 01-10-2015 to 03-10-2015

Organizer of the Laboratory: The School of Tasks at the Education Festival, Torino
from 12-11-2015 to 15-11-2015

Conference Organizer: The School of Tasks tells its story: a comparison on the experience for school recovery and success at the service of the community, Torino
from 26-04-2016 to 26-04-2016

Organizer of the conference Scientific High Schools: teaching Mathematics and Computer Science in the Digital Society, Academy of Sciences, Torino
from 24-05-2016 to 24-05-2016

Evaluation Committee at the EMEMITALIA 2016 conference, Modena,
from 07-09-2016 to 09-09-2016

Scientific Committee for the Ememitalia 2017 conference, Bolzano

from 30-08-2017 to 01-09-2017

Organizer of the conference entitled: Epistemological permeability between Mathematics, Sciences and Philosophy, University of Rome3, Rome

from 23-02-2018 to 23-02-2018

Conference organizer: The second test in the state exam, Torino

from 27-03-2018 to 27-03-2018

Organization of the Moebius Bootcamp - training course on the design and construction of online courses through Moebius, Torino

from 26-28 November 2018

MoodleMoot Italia 2021 Torino, Italia

Organizer: Associazione Italiana Utenti Moodle, Role: co-organier

IEEE Computer Society Signature Conference on Computers, Software, and Applications (COMPSAC 2023) 26-30 June 2023 Torino, Italia

Organizer: IEEE Computer Society, Role: co-organizer

Theme: Resilient Computing and Computing for Resilience in a Sustainable Cyber-Physical World

Direction or participation in editorial committees of magazines, collections, encyclopaedias and treaties of recognized prestige, Reviewer activities

Member of the Reviewers Board of the Journal of e-Learning and Knowledge Society from 2016

MathSciNet reviewer from 01-01-2002 to today

Reviewer of zbMATH from 01-01-2010 to today

Reviewer and referee for various national and international mathematical journals (Mathematics, UMI Bulletin, Proceedings of the Peloritana Academy of Pericolanti of Messina, Jelks-Journal of e-Learning and Knowledge Society, ...)

Member of the Program and Scientific Committee of various national and international Conferences also with the task of evaluating papers submitted for presentation during the sessions and publication in the proceedings (Didamatica, EMEMITALIA, Moodle, Else Conference, HEAd - International Conference on Higher Education Advances, CERME Congress of the European Society for Research in Mathematics Education, ICME-International Congress on Mathematical Education, COMPSAC, ICALT ...)

Guest Editor della Special Issue "Mathematics in Higher Education: Digital Environments and Online Learning Approaches", 29/04/2022–31/07/2023, Sustainability, EISSN 2071-1050, Published by MDPI

The purpose of this Special Issue is to bring together experiences, best practices, frontline research and recent advances in the field of mathematics education, with a particular focus on the context of higher education and the adoption of digital technologies that help students in their learning process and teachers in their daily activities. The Special Issue also intends to promote discussion about the experiences of authors from different university systems and to highlight the theme of university mathematics education in the international scientific community.

Participation in the council within research doctoral programs accredited by the ministry

PhD in Mathematics at the University of Torino

Member of the Admission Commission for the PhD in Mathematics (19th cycle) in October 2003.

Co-owner (with Prof. A. Conte and Dr. R. Wazir) of the starting course "Special projective varieties", Academic Years 2003-04 and 2004-05

Co-owner (with Prof. A. Conte) of the "Introduction to Mori Theory" research course, Academic Year 2005-06

PhD in Pure and Applied Mathematics, Doctoral School in Nature Sciences and Innovative

Technologies.

Doctoral agreement between the University of Torino and the Polytechnic of Torino.

PhD in HIGHER EDUCATION IN APPRENTICESHIP of the Piemonte Region

Title of Research Project: Development and Experimentation of Integrations of Virtual Learning Environments

30-hour individual training course on "Innovative Methodologies and Technologies for Mathematics Education" for Dr. Michele Fioravera, XXXI cycle, (winner of the Notice of the Piedmont Region for the testing of courses for the acquisition of the title of "Research Doctor" in apprenticeship exercise approved with code n. 294 of 16/05/2011) Course objective : provide him with the knowledge and skills on innovative methodologies and technologies for Mathematics teaching necessary to achieve the objectives indicated in the research project. from 01-10-2015 to 30-09-2016

30-hour individual training course on "Evaluation in Mathematics Education" for Dr. Michele Fioravera, XXXI cycle, (winner of the Notice of the Piedmont Region for the testing of courses for the acquisition of the title of "Research Doctor" in apprenticeship exercise approved with code n. 294 of 16/05/2011). Objective of the course: to provide him with the knowledge and skills on the evaluation in Mathematics teaching necessary to achieve the objectives indicated in the research project. from 01-10-2016 to 30-09-2017

30-hour individual training course on "New technologies for the construction and activation of Mathematics learning processes" for the Dr. Michele Fioravera, XXXI cycle, (winner of the Notice of the Piedmont Region for the experimentation of courses for the acquisition of the title of "Research Doctor" in apprenticeship exercise approved with code n. 294 of 16/05/2011). Objective of the course: to provide him with the knowledge and skills on new technologies for the construction and activation of the mathematics learning processes necessary to achieve the objectives indicated in the research project. from 01-10-2017 to 30-09-2018

September 2018. Member of the doctoral commission for admission to the years following the first of the doctoral candidates.

PhD in digital humanities. digital technologies, arts, languages, cultures and communication

In agreement between the University of Genova and the University of Torino

Scientific tutor of the PhD student Cecilia Fissore of the XXXV cycle (Curriculum: linguistics, applied linguistics, Onomastics)

Member of the Doctoral Council (from A.Y. 2019/20)

Digital Humanities PhD, Università degli Studi di Genova

Module of Gamification, Serious Games, and Digital Assessment – 24 hours with A. Barana and M. Sacchet March-May 2023. The course deals with the epistemological framework, the basic theoretical aspects, the fundamental methodologies and significant examples of the application of gamification, serious games and digital assessment in different educational and disciplinary contexts, their study and the presentation of research results. The course includes the application of the methodologies learned to create and analyze gamification, serious games and digital assessment activities.

PhD in Legal and Strategic Studies for Innovation in Defence & Security

In agreement between CASD – Center of Higher Defense Studies of Rome and the University of Torino

COORDINATOR of the Doctoral Council (from A.Y. 2022-23)

Teaching and research fellowship at qualified university and international research institutes

For the European Mathematical Society (EMS)

tutorials of the algebraic geometry course held by Prof. Alberto Conte during the first summer doctoral school in algebraic geometry from 29-07-1996 to 09-08-1996, Eger (Hungary)

European EAGER project - European Algebraic Geometry Research training network

Postdoctoral fellowship with contract number HPRN-CT-2000-00099, lasting 2 months (2004) at the Universities of Utrecht and Leiden (Netherlands), to collaborate with professors E. Loojenga and J. P. Murre

Results in technological transfer Creation of spin off Development of patents	From 01-01-2008 to 01-03-2009: Plug-in "Maple Worksheets" which integrates Maple Worksheets (interactive Maple sheets) into the Virtual Learning Environment Moodle. The plug-in was developed in collaboration with the ICT Services of the Department of Computer Science of the University of Torino. Authors: S. Rabellino, A. Cordero, M. Marchisio, S. Coriasco, M. Baldoni. The plug-in facilitates Mathematics teaching and learning using an Advanced Computing Environment simply connecting to an online platform.

The authors decided not to patent it but to leave it free and available to the scientific community. Freely downloadable at http://www.i-learn.unito.it/moodules/.

It is in use in various experiments and services with Italian and foreign universities and schools that use the Moodle platform for their teaching in courses and math lessons. The plug-in was presented on the MoodleMoot 2009 Conference held in Torino on 8-9 May 2009.

PROJECTS

His research interests are in Algebraic Geometry, Computational Geometry and Digital Education. in this context she founded and directs the **DELTA RESEARCH GROUP**, where the acronym DELTA stands for **Digital Education Learning and Teaching Advances**

PARTICIPATION in activities of a research group characterized by collaborations at national or international level	**Member of the European Research Project CEE Human Capital And Mobility "AGE Algebraic Geometry in Europe"** (Participating universities: Turin, Barcelona, Bayreuth, Erlangen, Grenoble, Hannover, Leiden, Paris Sud, Pavia, Pisa, Rome II, Warwick, Zürich; budget: 390,000 ECU; duration: 1994-98). Scientific responsible prof. Alberto Conte. As part of this project, she carried out her PhD thesis in algebraic geometry, on the problems of unirationality of algebraic varieties of a dimension greater than or equal to 3.

From 01-01-1994 to 31-12-1998.

Member of the European Research Network (01/10/2000-30/09/2005) "**EAGER – European Algebraic Geometry Research training network", contract number HPRN-CT-2000-00099**, involving 13 universities (Turin, Barcelona, Bar Ilan, Bayreuth, Hannover, Nice, Oslo, Rome, Saarbrücken, Utrecht, Warszawa, Warwick, Zurich, budget: 1,500,000 Euros; duration: 2000-2005) and coordinated by Prof. Alberto Conte. As part of this project, in addition to the classic problems of unirationality, she also deals with computational geometry methods for the study of varieties. She has established many international collaborations and spent several periods abroad at universities participating in the Project, in particular in 2004 she held a post-doc scholarship at the University of Utrecht. She also collaborated in the management of the Project.

From 01-10-2000 to 30-09-2005.

Member of the National Research Project co-financed by M.I.U.R. 2000-2002 "Algebraic cycles and cohomological methods, rationality problems, techniques in positive characteristics and arithmetic geometry", coordinator Prof. Alessandro Verra. Within this project, she has achieved some results in the field of algebraic geometry, in particular in the field of rationality problems for algebraic varieties of greater or equal size 3. The main research results have been the following: - construction of unirational smooth quartic hypersurface families of P4 and P5 having sizes 54 and 114 respectively which constitute the largest of these families still known today; - demonstration that each quartic hypersurface of P4 contains a rational surface; - demonstration that this surface has degree 32, while there are no rational surfaces of degree 4, these results are of interest for the problem of the unirationality of the three-dimensional quartic because in order to be unirational it should contain "many" rational surfaces; - proof that every quartic hypersurface of P5 which contains a 2-plane or a rational surface of Hirzebruch Fn is unirational. Is this one of the have very few I unirazionalità results known for quartics size 4. - Solution (in collaboration with A. Conte and J.P. Murre) of a known open problem proving that, as with the hypersurface and for complete intersections, even the coatings of double Pr branches branched along a degree 2d hypersurface are unirational when r is sufficiently large with respect to d. The method used in the demonstration had been proposed by C. Ciliberto in 1981, and it has actually proved capable of leading to the desired result.

From 20-12-2000 to 19-12-2002.

Member of the National Research Project co-financed by M.I.U.R. 2002-2004 "Geometry on algebraic varieties", Coordinator Prof. Alessandro Verra. As part of the Project, she continued the

studies of algebraic varieties, especially in collaboration with A. Conte and J. P. Murre (Leiden University).

From 16-12-2002 to 15-12-2004.

Member of the National Research Project co-financed by M.I.U.R. 2004-2006 "Geometry of algebraic varieties", Coordinator Prof. Alessandro Verra. As part of the Project, she continued her research in the field of algebraic geometry, dealing with applications of the classic Lang-Segre theorem: test the rationality above any body k of the cubic hypersurface of Pn containing a linear space of size n - 3 for n $\geqslant$ 6, and the unirationality over any body k of the quartic hypersurface of Pn containing a linear space of dimension n - 2 also obtaining a new counterexample to the classic Lüroth problem. Find an effective demonstration of the existence of cubic surfaces with two double points that are not rational over any body k even if they contain a k-rational point, and generalize the Lang-Segre theorem to the case of the existence of k-linear spaces above a complete intersection of quadrics. It is known that the general quartic hypersurface of greater or equal size 5 is always unirational. Nothing is known, however, for those of size 3 or 4, and the answer to this question constitutes one of the most classic rationality problems still open. For this reason it builds two families of unirational smooth quartic hypersurface of P4 and P5 having sizes 54 and 114 respectively and which constitute the largest of these families still known today.

From 30-11-2004 to 29-11-2006.

Member of the National Research Project co-financed by M.I.U.R. 2007-2009 "Geometry of algebraic varieties", Coordinator Prof. Alessandro Verra. As part of the project, she proves the unirationality for n $\geqslant$ 7 of the quintic hypersurface containing a linear space of dimension 3, obtaining as a corollary the classic Morin theorem on the unirationality of the general quintic of Pn for n $\geqslant$ 17; An essential tool for the demonstration is the generalization to the case of any body k and when the set of k-rational points is not empty of Enriques' famous theorem on the unirationality of the cubic complex (result always proven in the field of research). Note that the hypothesis of the existence of at least one k-rational point can be eliminated when k is a finite body or the body of the rational functions of an algebraic curve defined above an algebraically closed body of characteristic 0, with char (k) $\neq$ 2, 3. With A. Grassi and V. Perduca she began to study the toric representations of semistable degenerations of smooth algebraic varieties, which gave rise to the works:

> Marina Marchisio; Vittorio Perduca, On Some Explicit Semi-Stable Degenerations of Toric Varieties, RENDICONTI DEL CIRCOLO MATEMATICO DI PALERMO. SUPPLEMENTO, Vol. 81, p. 261-272, 2009

> CONTE, M. MARCHISIO, J. P. MURRE, On the Unirationality of the Quintic Hypersurface Containing a 3-Dimensional Linear Space, ATTI DELLA ACCADEMIA DELLE SCIENZE DI TORINO. CLASSE DI SCIENZE FISICHE MATEMATICHE E NATURALI, Vol. 142, p. 89-96, 2008

She develops two procedures which use the Advanced Computing Environment Maple 11 and which are useful for the study of quaternion algebras.

From 09-02-2007 to 08-02-2009.

Member of the National Research Project Co-financed by M.I.U.R. 2010-2012 "Geometry of algebraic varieties" Coordinator Prof. Alessandro Verra. As part of the Project, studies of algebraic geometry continue, above all on the toric varieties and on the invariants of the foliation theory of the projective plane, result obtained with a collaboration with E. Esteves of IMPA (Rio de Janeiro - Brazil). She deepens the studies of geometry and computational algebra and in particular, however, the interest in Groebner bases (usually used for the study of algebraic varieties) is increasing for their applications in teaching and learning.

From 22-03-2010 to 22-09-2012.

Member of the National Research Project Co-financed by M.I.U.R. 2013-2016 "Geometry of algebraic varieties" Coordinator Prof. Alessandro Verra. The research activities mainly concerned the applications of the Groebner Basics in learning and teaching mathematics.

From 01-03-2013 to 01-02-2016.

Member of the "Algebraic Geometry" Local Research Project. Manager C. Casagrande.

Research topics. Topology of algebraic varieties and structure of algebraic cycles on them. Properties of the Abel-Jacobi application and geometry of the fundamental group. Birational geometry, high dimension variety. Varieties of Fano, families of rational curves, Mori theory. Foliations. Geometry of toric varieties and applications. Algebraic geometry and string theory: study of geometric transitions and their equivalence by deformation. Smooth conditions for Nori-Hilbert schemes. Study of the components of the space of the modules of the cubic hypersurfaces of the five-dimensional projective space. Picard's 2-stacks study: algebraic and categorical approach. Study of the Brauer group of the Picard fields. Singularity of algebraic varieties. Hyperplane arrangements: Milnor fiber, characteristic varieties and connections between combinatorics and topology.

Research group: Marina Marchisio, Alberto Albano, Cristiana Bertolin, Cinzia Casagrande, Alberto Collino, Federica Galluzzi, Andrea Guidolin, Eleonora Anna Romano, Michele Rossi, Michele Torielli .

From 01-01-2015 to 30-04-2019.

MANAGEMENT of activities of a research group characterized by collaborations at national or international level

Research Project "E-Learning and Interactive Distance Education", of the Faculty of Mathematical, Physical and Natural Sciences of the University of Turin funded by Compagnia di San Paolo 2007-2010. Scientific manager of the Project of the Faculty of Sciences of the University of Turin financed by Compagnia di San Paolo. The main research goal of the Project is to develop an e-learning platform integrated with advanced systems for learning mathematics and scientific disciplines that allows to create an innovative teaching of STEM disciplines and online paths able to help students to recover school failures and allow them to check their preparation. The skills acquired in the field of algebraic geometry on the basis of Groebner and the deep knowledge of CAS, Computer Algebra Systems, such as Maple, Mathematica, Cocoa, Singular, Pari ..., used for research in geometry, allowed her to apply the power of these mathematical systems and engines in the teaching field.

From 01-10-2007 to 30-09-2010.

"Distance Interactive Tutoring" Project of the Faculty of Sciences of the University of Turin financed by Compagnia di San Paolo in July 2007 for the academic years 2007-2008 and 2008-2009. She is responsible for the project (with S. Coriasco of the Mathematics Department of Turin). In the Project, systems are implemented with S. Rabellino, M. Baldoni, C. Baroglio, C. Mattutino of the Department of Computer Science of the University of Turin to carry out teaching and tutoring remotely through a Moodle platform integrated with an advanced computing environment. The main results of this project are presented during the MoodleMoot conference organized in Turin on 8-9 May 2009 and result in the publication:

> BALDONI, Matteo, BAROGLIO, Cristina, CORIASCO, Sandro, MARCHISIO, Marina, MATTUTINO, Claudio, RABELLINO, Sergio (2011). Tutorato interattivo a distanza. In: (a cura di): M. Baldoni C. Baroglio S. Coriasco M. Marchisio S. Rabellino, E-learning con Moodle in Italia: una sfida tra passato, presente e futuro. p. 383-396, TORINO:Seneca Edizioni, ISBN: 9788861222694.

From 01-10-2007 to 30-09-2009.

"Alfaclass Research Project: Summer School Of Mathematics": Member of the scientific committee of the Alfaclass project, within the Diderot Project of the CRT Foundation, realized with the collaboration of the University and Polytechnic of Turin. The Alfaclass project is a Summer School for 60 excellent students enrolled in the first year of the University or the Polytechnic of Turin, dedicated to research in mathematics, which alternates conferences, workshops and workshop activities with informal meetings. Prof. Marchisio is responsible for a symbolic calculation laboratory presented within the Summer School program. Goals of the project:

- to enhance the knowledge and deepening of mathematics and to encourage an approach to the mathematical logical disciplines that rewards the excellence present among first year students;
- to create a network of young students in mathematics to bring them closer to the world of research.

Project platform: http://alfaclass.i-learn.unito.it/.

From 01-01-2009 to 28/02/2020.

"AlfaClass Update" project organized by the CRT Foundation, in collaboration with the University and Polytechnic of Turin. She was a member of the Scientific Committee of this initiative for the best

50 students in mathematics of the second year of the University or the Polytechnic of Turin.

Two editions in Biella: May 2011 and May 2012.

"E-Learning Research Project: The Role Of Platforms Integrated With Advanced Computing Environments And Remote Tutoring Systems In The Learning Of Scientific Disciplines And In The Fight Against Early School Leaving". Scientific responsible for the research project mentioned above developed through an annual scholarship funded by the Academy of Sciences of Turin, entitled to "Angiola Agostinelli Gili", attributed to Dr. Alice Barana. Research goals:

- study of the use of advanced computing environments integrated in e-learning platforms in teaching and education, with particular reference to the teaching and learning of mathematics in secondary school;
- analysis of the various automatic assessment/self-assessment systems existing in the world, in particular study of their effectiveness for learning mathematics in different contexts (recovery of difficulties, monitoring of learning, stimulus for excellence);
- study of the use of advanced computing environments and e-learning platforms for learning mathematics in other European countries, in particular in Holland and Sweden, where these practices have long been rooted in the teaching of scientific subjects at all levels of education, with the aim of developing and strengthening the application of these methodologies in the teaching of mathematics in Italy;
- analysis of the different tutoring actions in learning, in the recovery of school failure and in training.

From 01-06-2014 to 31-05-2015.

Research Project "Integrated E-Learning Platforms In The Training And Learning Processes For The Achievement Of Mathematical And Digital Skills". Scientific responsible for a research project developed through an annual research grant funded by the Goria Foundation in the Master of Talent Announcement of the Civil Society, attributed to Dr. Giuseppe Daqua. Research objectives:

- study of innovative teaching methodologies that use digital technologies for learning mathematics, such as advanced computing environments integrated with e-learning platforms;
- analysis and construction of learning paths for mathematics based on problem solving, which essentially use advanced computing environments, remote tutoring, automatic assessment systems of the knowledge achieved;
- deepening and development of collaborative practices and tutoring actions through e-learning platforms, both for learning and for teacher training;
- study and testing of automatic evaluation systems for mathematics using software that allow the formulation of questions of a certain complexity and the insertion and verification of open answers (graphs, formulas, equations, literal expressions, images);
- development of modules for the training of teaching staff on the use of new technologies for mathematics education and on their fundamental role as support for learning and cultural training;
- international comparison on the use of integrated platforms with other foreign universities that have adopted and study new innovative methodologies for teaching mathematics.

From 01-11-2014 to 31-10-2015.

Research Project "ORIENT@MENTE". Strategic project of the University of Turin financed by M.I.U.R., the University of Turin and from 2019 also by Compagnia di San Paolo through the OPERA Project. The project manager is Prof. M. Marchisio from the University of Turin. The Project provides the development of innovative orientation actions that facilitate access to the University, a more conscious university choice, success in university studies, the reduction of dropout between the first and second year, the achievement of minimum requirements of knowledge, passing the entry test. The project has led to the development of an integrated platform freely accessible by all Italian students, which can be reached at http://oriescente.unito.it/. Main results obtained:

- Development of digital content for the University of Turin Degree Program, specifically:
    - Online paths to help in the choice of a Degree program, to explore the required attitudes and skills and including forums and distance meetings with tutors to present questions and doubts (24 three-year courses and 1 master's)

- Test area with quizzes and tests with automatic evaluation to verify basic knowledge, useful for all students who want to enroll in any degree program that includes an orientation or selective test that includes scientific disciplines (12 courses)
- Realignment courses (4 courses: Biology, Chemistry, Physics, Mathematics)
- "ATTRASS" section, dedicated to foreign students, to allow them to improve their Italian knowledge and in particular the Italian language useful for university lessons (1 course)
- "Erasmus Digital Archive" Section, dedicated to university students who want to go abroad for a period of mobility, with video interviews, statistical analysis, connections and contacts students who have already lived or are experiencing a period of mobility (2 courses)

- Creation of an integrated Moodle platform with an advanced computing environment, an automatic evaluation system and a remote tutoring system, which allows dematerialized orientation for students of upper secondary schools who intend to enroll in a scientific degree program of the University of Turin.
- Study of teaching and learning methodologies for the realization of an integrated Moodle platform with an advanced computing environment, an automatic evaluation system and a remote tutoring system for orientation.

Over 6000 entry tests delivered each year. The platform's assets are over 50,000 since opening. In the calendar year 2018, there were over 20'000 Italian students (less than half of which from Piedmont) and automatically or over 305'000 tests were delivered and corrected.

From 26-02-2015 to today.

"E- LEARNING PROJECT" between the University of Turin and the Command for Training and Application School of Turin for the collaborative realization of an advanced e-learning training through virtual learning environments developed to support the training of Army Officers and civil students of Strategic Sciences. Project managers: for UniTo, prof.ssa Marina Marchisio (president of the Bachelor and Master of Science in Strategic Sciences in the three-year periods 2013-2016 and 2016-2019), Eng. Sergio Rabellino; for the Application School, lieutenant colonel Enrico Spinello and lieutenant colonel Gianluca Torbidone. Preliminary and integrant part of the project concerned the extension of the University's underground network to the headquarters of the Application School and the coverage of the university WiFi service in the classrooms for teaching. A technical phase followed that allowed the platforms of the two institutions to communicate, a didactic support phase in the preparation of some digital materials for scientific teachings (such as mathematics) and a training phase for all civil and military teachers of the degree courses. The project is the result of the fruitful collaboration between the Application School (SA) and the University of Turin (UNITO), within which experiences and skills were shared to study and develop innovative solutions that effectively respond to common and peculiar needs to a more complete and modern training.

The Application School (Military Institute delegated to the basic training and specialization of Army Officers and the Interfaculty University School in Strategic Sciences (SUISS) of the University of Turin) have created a path of mutual collaboration by proving to be reference poles and of cohesion in technology and training. This synergy is aiming at increasing advanced joint training offers. Currently the Turin Application School has become an e-learning center for the Italian Army. As part of the Project, experiments were carried out on the use of the integrated platform also in the training for command posts (post-graduate training) with a view to Life-long learning.

From 24-04-2015 to today.

Research Project "Development And Experimentation Of Integrations Of Virtual Learning Environments With Advanced Computing Environments, Automatic Assessment Systems And Simulation Laboratories To Learn Mathematics And Scientific Disciplines". She was the scientific manager of the research project mentioned above, developed through a PhD scholarship in apprenticeship in Pure and Applied Mathematics (University of Turin and Polytechnic of Turin), carried out at the Noesis solution company and in collaboration with the Maplesoft company. Research goals: to propose a model to facilitate different kind of learning and teaching mathematics in a virtual community. The model provides the structuring of shared teaching materials, to allow the matching of similar objects according to prerequisites and learning objectives, in order to provide them to users through learning trajectories on a digital map generated automatically considering the set of shared resources.

From 01-07-2015 to today.

Research Project "Development Of Problem Solving Skills With The CLIL Methodology". She was the scientific responsible for the research project aimed at studying the methodological integration of problem posing and problem solving in CLIL activities for scientific disciplines. The project was carried out through training and support activities for teachers of scientific disciplines as part of CLIL training and improvement courses. Research goals:

- study problem solving processes in the activities carried out according to the Content and Language Integrated Learning (CLIL) methodology in mathematics and scientific disciplines;

- activate a community of teachers in training who collaborate in the creation of teaching materials and ideas;

- create a database of materials shared and tested by the teaching community.

From 01-09-2015 to 30-06-2017.

"Learning environments integrated with new technologies for mathematics and scientific disciplines". She was the manager of the local research group of the University of Turin called "Learning environments integrated with new technologies for mathematics and scientific disciplines". The research group coordinated by prof Marina Marchisio deals with studying cognitive processes in learning environments that use new technologies, with particular attention to the teaching of mathematics and scientific disciplines. In particular, digital methodologies for learning and teaching mathematics for secondary schools and university education are studied and proposed, which make use of virtual learning environments integrated with advanced calculation systems and automatic evaluation. The topic of great relevance is the development of virtual learning communities: research concerns both communities of students who learn mathematics in a collaborative way led by facilitating teachers, and communities of practice of teachers who share and improve educational strategies. The main research themes of the group are:

- problem posing and problem solving with ICT to learn and develop mathematical and transversal skills;

- automatic construction of adaptive learning paths;

- automatic formative and summative assessment for learning mathematics and science;

- the role of tutoring in learning mathematics;

- the e-teacher training in STEM;

- e- learning as a tool to raise the quality of learning processes in scientific disciplines and internationalization processes;

- the recovery and strengthening mathematics and science through ICT;

- university orientation and realignment through digital learning paths for mathematics and scientific disciplines;

- analysis of learning data to support mathematics teaching.

Research group: Marina Marchisio, Tiziana Armano, Alice Barana, Michele Fioravera, Cecilia Fissore, Francesco Floris, Giulia Carini, Marta Pulvirenti, Matteo Sacchet (Mathematics Department of the University of Turin), Alessandro Bogino (Teaching Directorate of the University of Turin), Alex Cordero, Sergio Rabellino (Department of Computer Science of the University of Turin).

Collaborations with other departments of the University of Turin: Andrea Balbo (Department of Humanities), Barbara Bruschi, Simona Maria Cavagnero, Maria Adelaide Gallina, Renato Grimaldi, Silvia Palmieri (Department of Philosophy and Educational Sciences), Elisa Corino, Carla Marello (Department of Foreign Languages and Literatures and Modern Cultures).

National collaborations: Claudio Demartini (Politecnico of Turin), Carlo Meneghini, Settimio Mobilio (University of Roma Tre), Marina Rui (University of Genoa), Giuliana Franceschinis (University of Eastern Piedmont), Tommaso Minerva (University of Modena and Reggio Emilia), Carlo Mariconda (University of Padua).

International collaborations: Steve Furino (University of Waterloo), Tiziana Magaria (University of Limerick), Nicola Wilkin, Jonhatan Watkins, Robert Stanyon (University of Birmingham), Meta Keijzer-de Ruijter (TU Delft), Jan Stevens (Chalmers University of Technology), Andreas Körner, Stephanie Winkler (TU Wien), Lars Riedel (Technical University of Denmark).

Business partners: Maplesoft, Enginsoft, Noesis Solution, Roj, Torino Wireless.

School networks: Piedmont Scientific High School Network (RELISPI), Biella Schools on the Net.

The group also collaborates with many schools on national and European territory.

From 01-01-2016 to today.

"ReLiSPi" RESEARCH PROJECT. She is the delegate of the Rector of the University of Turin for the project for the development in the Piedmontese Scientific High Schools of joint actions for the Digital School in support of the didactic innovation process in terms of strengthening the joint between Mathematics and Computer & Data Science, through the development of the Problem Posing and Solving, Decision Making, Computational Thinking. Project partner: M.I.U.R., Piedmont Regional School Office, Galileo Ferraris State Scientific High School of Turin (as network leader of the Piedmontese High Schools), Piedmont Region, Department of Automation and Computer Science of the Polytechnic of Turin, Department of Mathematics of the University of Turin, Confindustria Piemonte, Istituto Superiore Mario Boella, ISI - Institute for Scientific Interchange, Turin Academy of Sciences. Goals of the project:

- definition of development plans and innovation of the teaching-learning processes of Mathematics and scientific disciplines through the methodology of Problem Posing and Solving, Decision Making, Computational Thinking;
- to promote the use of advanced computing environments in the teaching of mathematics and scientific disciplines;
- to introduce the teaching of Computer Science in the curricula of secondary school, even if not currently provided;
- the training in these fields of teaching staff;
- the acquisition of digital skills and the use of tools and methodologies for problem solving and to develop specific transversal and digital skills in students, both in the areas of the disciplinary curriculum.

Project platform: http://relispi.i-learn.unito.it/.

From 24-05-2016 to today.

Research Project "Development Of Innovative Educational Methodologies To Learn Scientific Disciplines In Virtual Learning Environments Integrated With Advanced Computation Systems, Automatic Assessment And Simulation". She is the scientific responsible for the research project mentioned above, developed through a PhD scholarship in Pure and Applied Mathematics (University of Turin and Polytechnic of Turin). Research goals:

- development of modules for learning mathematics and scientific disciplines based on problem posing and problem solving and their implementation in virtual learning environments integrated with advanced computing environments, automatic assessment systems, virtual simulation laboratories and web tools conference;
- designing collaborative activities, interactive materials and formative assessment tests to facilitate the learning of mathematics and scientific disciplines, to increase motivation, to develop self-regulation processes, to train disciplinary and transversal skills. The teaching materials are designed in collaboration with INVALSI experts, with particular attention to the transition period between the first and second grade secondary schools;
- development of adaptive courses for learning mathematics using automatic evaluation;
- verification of the effectiveness of the methodologies studied through experiments conducted in different classes of first and second grade secondary schools;
- teacher training aimed at autonomous preparation of interactive activities and materials according to the proposed methodologies.

From 01-10-2016 to today.

"School Robotics" Project. She is member of the scientific committee of the Project formed by: Alfonso Lupo (president of the Dschola Association), Daniela Tornielli (CRT Foundation), Ezio Fregnan (Head of Comau Training and Training Area), Arturo Baroncelli (Comau Robotics expert), Marina Fortina, Maria Luisa Bettale, Antonietta Sergi and Stella Perrone (teachers of primary and secondary schools), Marina Marchisio (professor of the Mathematics Department of the University of Turin and

responsible for the scholarship of Dr. Daqua), Renato Grimaldi (professor of the Department of Philosophy and Educational Sciences of the University of Turin), Giuseppe Daqua (scholarship holder, Research Scholarship Call for the Master of Civil Society Talents, 2016 Edition, head of Prof. Marchisio). The Project studies the role and effectiveness of the use of Robotics in learning Mathematics and Art History disciplines. Research goals:

- to build innovative teaching units and learning modules for math and art history that use robotics as a learning tool;
- to experiment these learning units in schools (primary, lower and upper secondary schools) involving a large number of teachers and students;
- to develop methodologies that use robotics in the context of mathematics teaching and learning;
- to catalog, quantify and analyze the data collected, in relation to students' learning and appreciation;
- to improve hardware and software for a robotic arm;
- to develop graphical interfaces, to be used for moving the robot;
- to create a guided robotic vehicle, to be used in the didactic/educational field.

Prof. Marchisio has collaborated above all in the creation of the innovative units and learning modules for mathematics and art history that use robotics as a tool for learning and developed methodologies that use robotics in the context of teaching and learning mathematics. Achieved results: Robo-Scuola event – Comau, the 14th of March 2018: final event with presentation of the project and analysis of the results.

From 01-11-2016 to 14-03-2018.

Research Project "Explore (With) Digital Dictionaries". Project co-funded by the CRT Foundation to help students understand how digital dictionaries are structured so that they can be properly consulted. The Project represents an example of digital dialogue between different disciplines, in particular it aims to develop innovative methodologies for learning Italian language and foreign languages with new technologies, in particular with an automatic assessment system, so far experimented and adopted for the teaching and learning STEM. Project managers are Prof. Carla Marello from the Department of Languages of the University of Turin and Prof. M. Marchisio from the Department of Mathematics of the University of Turin. A platform dedicated to the project has been set up and can be reached at http://esploradizionari.i-learn.unito.it/. At present 20 teachers from secondary schools and universities and about 350 students have been involved.

From 01-01-2017 to today.

Project Start@UniTO". The project manager is the ex -vice-rector Prof. L. Operti. Project coordinator and member of the scientific committee is Prof. Marchisio. The Start@UniTO project of the University of Turin is financed by Compagnia di San Paolo. The project acts as a tool for facilitating and motivating/encouraging/supporting the start of the university training path, with a positive impact on reducing the drop-out and drop-out rate. It consists of 50 online courses of an 'open' character (accessible by all users, who will connect with personal credentials in order to guarantee simple monitoring of access), on broad and general topics, preparatory to the courses of the first year already included in the University's study plans. The courses are designed and created according to the most modern European and international on-line teaching standards, within an identical teaching platform (with the same graphic layout, same type of internal articulation, a number of predefined units for ECTS, multimedia educational content, videos of uniform duration, self-test of learning). Platform address: https://start.unito.it/.

Prof. Marchisio together with prof. Barberis has created one of the courses in Italian: "Mathematics in e-learning" and together with prof. Barberis, Prof. Galluzzi and to Prof. Giraudo has created one of the teachings in English: "Mathematical Modeling". Results:

- Development of digital content, in particular of learning objects
- Creation of an integrated Moodle platform with an automatic assessment system, which allows dematerialized training for second grade secondary school students who intend to enroll in a university degree course
- University teacher training for the preparation of digital content

From 01-03-2017 to today.

"Online Tutored" Research Project. She is the scientific Director of the research project mentioned above developed through a grant to study and research attributed to Dr. Cecilia Fissore. The research is aimed at developing an online platform integrated with a web conference service, available to all students of the University of Turin for constant support to study through synchronous and asynchronous tutors. Goals of the project:

- to design and to create an online desk dedicated exclusively to more complex subjects or in which students have more difficulties, able to offer online tutoring for study support and to support face-to-face lessons by uploading online material that can be freely used in full autonomy and at any time, thus increasing training opportunities;

- to offer spaces for collaboration and cooperation between students;

- to enable student-workers to recover knowledge and remove obstacles for a successful course attendance.

Project platform: http://tutoratoonline.oriivamente.unito.it/.

Project Results:

- development and management of a Moodle platform, integrated with an automatic assessment system and with specially developed plug-ins that allow the management of thousands of participants;

- creation of online courses for students of the University of Turin in which synchronous and asynchronous tutoring are activated, forums where tutors are available to answer doubts, to give explanations of unclear topics, to correct exercises, tests with automatic assessment, interactive material containing explanations and exercises.

From 01-03-2017 to today.

"Digital Education Training" Project. Scientific responsible: prof. Marchisio; scholarship holders: dr. Sacchet, dr. Giors , dr. Salusso. The main objective of the project is to study and propose methodologies for the creation of digital materials with new technologies capable of:

- making the teaching of a teacher more flexible and accessible;

- facilitating the autonomous learning of the student of a university 4.0.

We intend to design and create an online course for Turin University teachers who intend to reflect and train themselves to renew their teaching.

From 01-03-2017 to today.

"Foundation Programme" Project. Prof. Marchisio is Scientific Coordinator. Holder of a scholarship and annual research: dr. Francesco Floris. The project, in accordance with the M.I.U.R. decree of 3 August 2017 on "Procedures for the entry, stay and enrollment of foreign/international students in higher education courses in Italy for the 2017-2018 academic year" has developed an online path of an annuity (60 credits) for students who intend to enroll in an Italian university but who are in possession of only 11 secondary school annuities and so they must supplement their education with an additional year of studies. Eight online courses of 10 ECTS each have been designed. Platform address https://foundationprogramme.unito.it/. Prof. Marchisio together with prof. Barberis is carrying out one of the 8 courses: "Mathematical Language and Problem Solving".

From 01-01-2018 to today.

Member of the M.I.U.R. working group General Directorate of Jurisdictions for the development of the Framework for the second written test of mathematics for scientific high schools - Legislative Decree 62/2017.

From 01-03-2018 to l 30-09-2018.

Research Project "Integrated Paths For Stem Disciplines". She is the scientific manager of the research project for the development of integrated paths for STEM disciplines. For the realization of the project, a scholarship was provided at the Mathematics Department of the University of Turin. Research goals:

- Design of learning units involving mathematics, physics, sciences and philosophy, in the logic of

problem solving.

- Realization of the activities foreseen in the courses with the use of new technologies, such as an integrated learning environment with an advanced computing environment and an automatic evaluation system.

- Experimentation of the activities in the classes of secondary school students.

From 01-03-2018 to today.

Research Project "Automatic Assessment To Develop Mathematical And Linguistic Skills".
She is the scientific manager of the research project for the development of activities with automatic assessment integrated in e-learning platforms to offer support to students and teachers in learning mathematics and linguistic disciplines. A Moodle e-learning platform is used, integrated with plug-ins specially developed for the use of an automatic assessment system that allows online tests and statistical analysis of results. The platform allows tests to be carried out with the use of digital dictionaries for linguistic disciplines and with the use of an advanced computing environment for STEM disciplines. For the realization of the project, a scholarship was provided at the Department of Mathematics of the University of Turin, of which Professor Marchisio is scientific responsible. A collaboration was also activated with Prof. Carla Marello and Prof. Elisa Corino of the Department of Foreign Languages and Literatures and Modern Cultures of the University of Turin. Research goals:

- to search suitable solutions for the development of tests with automatic evaluation aimed at acquiring mathematical and linguistic skills;

- to offer students support in the development of disciplinary knowledge, skills and competences;

- to support teachers for the use of interactive materials produced in their teaching;

- to construct a virtual learning community for mathematics and foreign language teachers interested in integrating activities with automatic evaluation into their teaching.

The project will also be developed through a PhD scholarship as part of the Doctorate in Digital Humanities. Digital methods for language learning will be developed and they will be characterized by the use of a virtual learning environment integrated with a formative automatic assessment system, online dictionaries, corpora and corpus analysis software to classify mistakes made by students during a translation activity in order to automate or semi-automate their evaluation and design adaptive questions to help them practice independently and overcome difficulties in specific errors.

From 01-03-2018 to today.

Local search project "Learning Analytics and dynamic systems for the continuous improvement of learning and teaching processes". The field of study currently called Learning Analytics develops in an interdisciplinary scenario where the most recent methods of "Data Science" dialogue with the research methods of Digital Education and the various educational systems. The main purpose of the Project is to study new systematic data collection models and their progressive modeling which may translate into actions that facilitate decision making in the resolution of educational problems (Educational Decision-Making) and the improvement of the learning. This area of research is still little explored, especially in Italy. Currently the existing studies are based on research techniques and methods such as Business Intelligence, Educational Data Mining, Web Analytics and Reccomender Systems which, if applied in contexts and educational systems, allow the analysis of educational processes especially in terms of measurement of outcomes (learning outcomes) while in research we want to identify new parameters more oriented to inform students and teachers and other figures of the educational scenario on active processes (living processes). The project is also carried out through the internship and the Master's thesis in "Data Analysis for Business Intelligence and data science" by dr. Francesco Floris.

From 01-10-2019 to today.

Responsibility of Studies and Scientific Research ENTRUSTED By Qualified Public or Private Institutions

National research project of M.I.U.R. "Problem Posing & Solving" (promoted by the General Directorate of Jurisdictions of school of M.I.U.R., supported by aica, cnr, confindustria, University of Turin and Polytechnic of Turin). She is member of the M.I.U.R. working group and scientific responsible for mathematics. The aim of the project is to help concretize the change envisaged at the regulatory level with the transition from ministerial teaching programs to National Indications for High Schools and Guidelines for Technical and Professional Institutes. The research project, culturally focused on problem posing and problem solving, intends to exploit the innovative potential of

information technology as an enabling factor of innovation. 800 Italian schools, 2500 math and computer science teachers, 18000 students participate in the Project. Goals of the project:

- Develop an integrated training space that interconnects logic, mathematics and computer science.
- Building a "Problem posing & solving" culture by investing a systematic activity based on the use of logical-mathematical-IT tools in the formalization, quantification, simulations and analysis of adequate problems complexity.
- To ensure a growth in the IT culture of teaching called to accompany the transformation promoted.
- Adopt a significant share of online activities with didactic, tutoring and self-evaluation actions.
- Project platform: www.progettopps.it.

As part of the project Prof. Marchisio is the scientific responsible for a large share of the training of mathematics teachers on new methods and technologies of learning of mathematics, which involved more than 1,200 teachers in service on the Italian territory.

From 01-07-2012 to today.

Research Project "School Of Homework". She is the scientific responsible and delegate of the Rector of the University of Turin for the research project "School of Homework", entrusted by the City of Turin to the University of Turin. The project is included in the plan of actions aimed at fighting early school leaving and promoting educational success and is aimed at third year students of lower secondary schools and first year students of upper secondary schools. Part of the interventions are carried out with digital methodologies and tools. It began in March 2013, today it involves over 40 secondary schools in the city of Turin. Goals of the research project:

- to provide support in learning Italian, mathematics, foreign languages and scientific disciplines through afternoon recovery activities aimed at small groups of pupils in difficulty, held by university students of the University of Turin, selected through special calls and appropriately trained;
- to train university students to the specific role of tutor they cover in the project and support them during the educational action they carry out;
- to study the role of the tutor in school recovery activities and how the student-tutor relationship acts both on the motivation and performance of the students, and on the attitude and professional orientation of the tutors.

Project platform: http://scuoladeicompiti.i-learn.unito.it/.

From 01-01-2013 to 31-07-2020

Project "Let's Learn Mathematics With Moodle And Maple". She was the scientific responsible for the project entrusted by the Foundation for the School of the Compagnia di San Paolo and in conjunction with the "Xkè" museum, laboratory of curiosity of the Foundation for the Compagnia di San Paolo. The project proposes a new method of teaching mathematics in lower secondary schools, through the integrated use of a Moodle e-learning platform integrated with an advanced computing environment and with an automatic assessment system. In this project 25 teachers from the province of Turin and the rest of Piedmont were involved in a training course. Goals of the project:

- to encourage the innovation of mathematics teaching and more generally of science through the use of the most modern calculation tools and work environments currently available;
- to prepare students to identify and solve problems in that culture of problem solving which is now indispensable for a future citizen capable of moving in this increasingly digital and constantly evolving society;
- to prepare students for a more mature use of information technologies;
- to collect and share useful materials for all teachers who want to adopt this new way of teaching.

Project platform: http://farematematica.i-learn.unito.it/.

From 01-07-2013 to 30-06-2014.

Research Project "Prevention And Contrast To Early School Leaving". She was the scientific

responsible for the "Prevention And Contrast To Early School Leaving" project, entrusted by the IIS Carlo Anti of Villafranca di Verona to the Mathematics Department of the University of Turin with a grant from M.I.U.R.. The project is aimed at students of the first two years of the upper secondary school and third grades of lower secondary schools with the aim of strengthening basic skills in fundamental disciplines and reducing disaffection towards the school through complementary laboratory activities and innovative. In particular, for the purpose of school recovery, a virtual learning environment (Moodle) integrated with an advanced computing environment (Maple), an automatic assessment system (Maple TA) and a web conference system are used for teacher training. Goals of the research project:

- to study teaching methods that foster the learning processes of mathematics and other fundamental disciplines in situations of learning disabilities and recovery school;

- to train teachers of Mathematics, Italian and English on the use of innovative education methodologies to activate actions for the recovery and prevention of early school leaving;

- to activate a community of teachers to exchange mathematics teaching practices and promote collaboration with other teachers, also from different schools and disciplines.

Project platform: http://scuolapertutti.i-learn.unito.it/course/index.php?categoryid=16.

From 01-12-2014 to 30-06-2015.

"MATE4" Research Project. She is the scientific manager of the research project "MATE4", entrusted by the IIS Carlo Anti of Villafranca of Verona to the Department of Mathematics of the University of Turin. The project is aimed at designing a vertical mathematics curriculum in the experimental paths of the International High School of Applied Sciences and of the Industrial Technical Institute and International Telecommunications in 4 years, activated at the Institute. Research goals:

- to identify the fundamental nuclei of mathematics around which to build a vertical mathematics curriculum lasting 4 years;

- to design and implement didactic actions to support and enhance the learning of mathematics through innovative and digital teaching methodologies, problem posing and problem solving, the use of virtual learning environments, advanced computing environments and automatic assessment systems;

- to design teaching units for mathematics based on problems that make up the skeleton of the vertical curriculum in 4 years, implement them through interactive tools that allow exploration, self-evaluation and automatic evaluation, experiment them in classes;

- to track and study the educational path and the learning outcomes of students in learning mathematics in the vertical path in 4 years.

Achieved results: a volume containing the materials and results of the research is being prepared, in collaboration with prof. Claudio Pardini, ex- School Director of the IIS Carlo Anti of Villafranca di Verona.

From 01-01-2015 to 31-08-2019

"Anti Dispersion" Research Project. She was the scientific manager of the "Anti Dispersion" Project entrusted by the Biella Schools on the Net (SBIR) to the Department of Mathematics of the University of Turin. The project, financed by M.I.U.R., is aimed at teachers of primary, secondary and first and second degree for the construction of innovative laboratory activities for learning mathematics and scientific disciplines that allow to reduce school dropout. Goals of the project:

- training of mathematics teachers on the construction of interactive teaching materials in a virtual learning environment integrated with an advanced computing environment and an automatic assessment system;

- development and study of cooperative and collaborative learning actions in virtual learning environments between teachers and students in mathematics recovery paths;

- preparation and insertion of specific activities for teaching mathematics in vertical curricula .

Project platform: http://scuolainsieme.i-learn.unito.it/.

From 01-03-2015 to 30-06-2015.

Research Project "Cosam: Online Course For The Development Of Mathematical Skills". She is the scientific responsible of the Project entrusted by the IIS Carlo Anti of Villafranca di Verona to the

Mathematics Department of the University of Turin. The project is aimed at the design and implementation of an online course for the first year students of the experimental paths of the Industrial Technical Institute and Telecommunications and of the International High School of Applied Sciences in 4 years, usable before and during the first year of study. The courses were activated in the school years 2015/2016, 2016/2017, 2017/2018. In the 2016/2017 and 2017/2018 school years, online courses were also activated for the second, third and fourth year of the school courses in the 4 years mentioned above. Goals of the project:

- Identify the fundamental nuclei of mathematics learning on which to base the link between first and second grade secondary school, with particular attention to the curriculum developed in 4 years.
- Study innovative methodologies for mathematics education with which to create interactive and online materials to facilitate the learning of mathematics in the transition between first and second grade secondary school.
- Provide students with materials, tools and an online community useful for the realignment of basic mathematical skills and competences in facing the first year of secondary school and in the transition to subsequent years.

Achieved results:

- Realization of online courses for the development of mathematical skills for students starting the first, second, third and fourth year of the experimental courses of the Industrial Technical Institute and Telecommunications and of the International High School of Applied Sciences in 4 years.
- Barana, M. Marchisio, C. Pardini. *COSAM: Corso Online per lo Sviluppo di Abilità Matematiche per facilitare il passaggio tra la scuola secondaria di primo e di secondo grado.* Paper presented at the conference EM&MItalia 2016 – E-learning, Media education & Moodlemoot (Università di Modena) Modena, 7-9 September 2016 and published in the relevant documents.

From 01-09-2015 to 31-08-2019.

Research Project "Lagrange And Cicerone At The Computer". She was the scientific responsible for the project entrusted by the Foundation for the School of the Compagnia di San Paolo to the Department of Mathematics of the University of Turin, carried out in collaboration with the Department of Humanities of the University of Turin. The project includes a training course for 50 teachers of mathematics and Latin of first and second grade secondary schools aimed at acquiring digital teaching skills. Goals of the project:

- To study the use of a virtual learning environment, an advanced computing environment and an automatic assessment system, applied to the problem posing and problem solving methodology, by mathematics and latin teachers with their classes (over 1000 students involved).
- To assess the impact of social utility in the school environment and the innovativeness of the proposed training model.
- Experimenting processes of participation and collaboration between schools.

Accomplished results:

- Conference entitled: The introduction of digital teaching to encourage learning, presented at the Festival of education, Turin, 23-27 November 2016, with A. Balbo, A. Barana and B. Kircos.
- Conference entitled: Interdisciplinary synergies between Latin and mathematics: The Lagrange and Cicero project on the computer and the experience of the School of Tasks (with A. Balbo), presented at the Seminar of Classical Languages and Civilizations, Liceo Tasso Salerno, 30 November 2017.
- Invited conference: Digital synergies between Latin and mathematics: the Lagrange and Cicero project on the computer with A. Balbo for the digital culture laboratory - Master's degree in humanities computer science, University of Pisa, 29 March 2017.

From 09-11-2015 to 08-11-2016

Research Project: Methodological Training "Problem Posing And Solving" Within The Clil "Really" Project (Read, Explain And Learn In An Additional Language Yourself). She was the

scientific responsible for the project entrusted by the IIS Eugenio Bona di Biella to the Mathematics Department of the University of Turin through an agreement. The project proposes to offer the teachers participating in the "REALLY" CLIL project training and support for the planning of teaching activities in a foreign language according to the methodologies of Problem Posing and Problem Solving, also through the construction of a platform community of practice. Goals of the research project:

- study of the integration of Problem Posing and Problem Solving and of the CLIL methodology for learning scientific disciplines;
- support and monitoring of teachers' activities through an e-learning platform;
- collection and evaluation of materials built by the community of teachers involved and tested in their classes.

Achieved results: "Teacher training to the use of CLIL methodology in problem based activities", with A. Barana, presented at the 2nd International Conference "MOOCs, Language Learning, and Mobility", Oriental University of Naples, October 2017, and accepted for publication in the related documents.

From 01-03-2016 to 31-07-2017.

"Educational City" Research Project. She was the scientific responsible for the research project "Educational City", entrusted by the CNR to the Mathematics Department of the University of Turin through an agreement. The project contemplates an experiment aimed at studying how the use of innovative methodologies for mathematics teaching, virtual environments for learning and formative evaluation can favor the development of mathematical skills. A first phase of experimental activities took place between March and May 2017, involving classes from the last year of the lower secondary school and the first two years of the upper secondary school, for a total of 12 classes. Experimental activities were carried out in 9 of these classes, partly in presence and partly on the platform, using a virtual learning environment integrated with an advanced computing environment and an automatic assessment system for training verification. The activities were monitored by questionnaires and assessment tests at the beginning, in the middle and at the end of the activities; the results were compared with the remaining 3 classes chosen as the control sample. Based on the first results collected, a second phase of the experimentation was activated in September 2017 and will continue for the entire 2017/2018 school year involving 24 third classes of 6 first grade secondary schools in the City of Turin; experimental activities are carried out in 13 of them, the remaining 11 being the control sample. Link to the project platform: http://cittaeducante.i-learn.unito.it/.

From 15-03-2017 to 30-06-2018.

Research Project "Mate-Booster - Posing & Solving Problem For The Improvement Of Mathematical Skills". She is the scientific manager of the MATE-BOOSTER project, entrusted by the IIS Eugenio Bona of Biella to the research group coordinated by Prof. Marchisio to insert it in the framework of actions of the Institute for the development of basic mathematical skills through platform activities based on problem posing and problem solving. The project involves the design and implementation of an interactive online course for students of the first classes. The results are monitored through questionnaires and verification tests at the beginning and at the end of the project. Goals of the project:

- achievement for students of the first classes of the Institute of the standard levels of the logical-mathematical area achieved through the implementation of good digital teaching practices;
- training of teachers in the use of an e-learning platform such as Moodle, suitable for conveying mathematical content and for developing synchronous and asynchronous laboratory activities, also for autonomous and individual but assisted study, both at school and at home.

From 01-09-2017 to today.

Research Project "Stem Training". She is the scientific manager of the research project "STEM TRAINING", entrusted by the Piedmontese High School Network, in particular by the school leader Liceo Scientifico Galileo Ferraris of Turin to the research group coordinated by Prof. Marchisio. The project is aimed at creating a training and refresher course for teachers of the STEM disciplines on the interdisciplinary problem posing and problem solving approach with innovative digital tools in the teaching of mathematics and scientific subjects. Research goals:

- To design and create training materials for teachers of STEM disciplines with the aim of supporting them in the autonomous development of interactive teaching materials and laboratory activities to be offered to their students;
- To create a network of teachers who are experts in different disciplines who collaborate in presence and at distance to create interdisciplinary problems for effective teaching of mathematics and scientific disciplines based on problem-based learning;
- To study the training processes that take place in a practical community of teachers of mathematics and other scientific disciplines who collaborate in presence and on the platform.

From 01-10-2017 to 31-07-2020.

Research Project: "School For Everyone". She is the scientific manager of the "School for Everyone" Project, entrusted by the IIS "Amaldi - Sraffa" of Orbassano (TO) to the research group coordinated by Prof. Marchisio. The project is part of the actions prepared by the IIS "Amaldi - Sraffa" of Orbassano (TO) for the training of teachers, for school recovery and to allow all students to achieve the expected educational objectives. The project is addressed to teachers and classes of the first three years with particular attention to students who have registered not particularly serious insufficiencies in the various disciplines during the first period of the school year. Goals of the project: the recovery of school failures; the overcoming of difficulties in learning; to increase motivation in the study; the reduction of school dropouts; the enhancement of skills; to facilitate the transition between lower and upper secondary schools. Project platform: http://scuolapertutti.i-learn.unito.it/.

Some results obtained are contained in: Barana, A., Marchisio, M., Pulvirenti, M. Commitment of teachers in a digital learning project to reduce academic failure in STEM and linguistic subjects. Accepted for presentation at the EMEMITALIA 2019 conference and for publication in the relevant documents.

The **"Math in Advance"** path was developed and tested; it is a Mathematics course which aims to facilitate the transition from lower to upper secondary school.

From 24-01-2018 to today.

Research Project "Compiti@casa". She is the scientific responsible and delegate of the Rector of the University of Turin for the research project "Compiti@casa", entrusted by the Fondazione de Agostini, Fondazione Riva and IGT Lottery to the University of Turin. The project is included in the plan of actions aimed at fighting early school leaving and promoting educational success and is aimed at students of lower secondary schools. The interventions are carried out with digital methodologies and tools. It began in January 2021, today it involves 9 secondary schools of big Italian Cities (Turin, Milan, Rome, Novara Naple, Palermo), 300 students, 150 tutors. Goals of the research project:

• to provide support in learning Italian. humanistic disciplines, Mathematics and scientific disciplines through afternoon recovery activities aimed at groups of two pupils in difficulty, held by university students of the University of Turin and University Piemonte Orientale, selected through special calls and appropriately trained;

• to train university students to the specific role of tutor they cover in the project and support them during the educational action they carry out;

• to study the role of the tutor in school recovery activities and how the student-tutor relationship acts both on the motivation and performance of the students, and on the attitude and professional orientation of the tutors.

Project platform: https://compitiacasa.i-learn.unito.it/

From 01-10-2020 to today

Research Project "Ucr@ina, insieme per conoscerci". She is the scientific responsible and delegate of the Rector of the University of Turin for the research project "Ucr@ina, insieme per conoscerci", entrusted by the Fondazione de Agostini, Regione Piemonte and Ufficio Scolastico Region Piedmont to the University of Turin. The project has the purpose not only of accelerate the learning of the Italian language and ensure support for studying in the new one reception school, but also and above all to facilitate the social integration of Ukrainian children in Italy. Ucr@ina is an online distance support for Ukrainian children, placed in lower secondary schools degree. In the pilot phase, the project was activated for 22 schools in the provinces of Novara and Turin, but it could soon be extended to the other provinces of the Region Piedmont as well and Region Lombardia.

46 children was followed in a one-to-one relationship, for 4 hours a week, by a university tutor, for a duration of 10 weeks. Distance support takes place in a digital learning environment, designed and built by the University of Turin, which allows synchronous activities and sharing interactive content.

The tutors participating in the project was Ukrainian of the University of Turin, enrolled in the various courses of study. Tutors were not only be able to share knowledge and content, but were also be capable of welcoming, listening and good relationships, albeit at a distance. The project provides for the remuneration of tutors, in fact Ucr@ina wants to give concrete help not only to war refugees, but also to university students who already lived in Italy when the conflict started and they suddenly found themselves in difficult conditions. In 2023 60 schools and 135 students are involved.

Project platform: https://compitiacasa.i-learn.unito.it/

From 01-04-2022 to today

<table>
<tr><td>Scientific Responsibility for International and National Research Projects, WINNERS OF FUNDING Based on Competitive Calls that Provide Peer Review</td><td>

European Research Project Erasmus+ KA2: "Developing Competences and Innovative Designs for International Virtual and Blended Modalities – INVITE"

Partners: AALBORG UNIVERSITET (Danimarca) Coordinator, ELLINIKO MESOGEIAKO PANEPISTIMIO (Greece), Università degli Studi di Torino (Italy), Columbus Association (France)

COOPERATION PARTNERSHIPS IN HIGHER EDUCATION, AGREEMENT NUMBER KA220-HED-2021-006

1/2/2022 – 31/01/2025

European Research Project Erasmus+ KA2 "Time-Spatial-Linguistic Teaching and Learning Travel Machine platform for Connecting UNITA - CONNECT- UNITA".

Partners: partners of European Alliance UNITA Universitas Montium: UNIVERSITE DE PAU ET DES PAYS DE L'ADOUR France Coordinator; UNIVERSITE SAVOIE MONT BLANC France; UNIVERSIDADE DA BEIRA INTERIOR Portugal; UNIVERSITA DEGLI STUDI DI TORINO Italy; UNIVERSIDAD DE ZARAGOZA Spain. Prof. Marchisio is the scientific responsible and coordinator of the Turin node. Grant Agreement referenced: 2021-1-FR01-KA220-HED-000027567.

1/2/2022 - 31/01/2025

European Research Project Erasmus+ KA2 "Interdisciplinary Education and Training on Hybrid Warfare – HYBRID" - Form ID: KA220-HED-B9458C8A

Partners: NEMZETI KOZSZOLGALATI EGYETEM Hungary Coordinator; AKADEMIA OZBROJENYCH SIL GENERALA MILANA RASTISLAVA STEFANIKA Slovakia; Academia Fortelor Terestre "Nicolae Balcescu" Romania; BAR ILAN UNIVERSITY Israel; The Centre for the Study of New Security Challenges Ltd United Kingdom; UNIVERSITA DEGLI STUDI DI TORINO Italy. Prof. Marchisio is the scientific responsible and coordinator of the Turin node.

1/11/2021- 1/11/2024

European University UNTA Universitas Montium (Partners: UNIVERSITE DE PAU ET DES PAYS DE L'ADOUR France Coordinator; UNIVERSITE SAVOIE MONT BLANC France; UNIVERSIDADE DA BEIRA INTERIOR Portugal; UNIVERSITA DEGLI STUDI DI TORINO Italy; UNIVERSIDAD DE ZARAGOZA Spain) Prof. Marchisio is the scientific responsible and local coordinator of the Turin node for the **WP5 – Digital Learning Environment for UNITA**

1/11/2020 - 31/10/2023

European Research Project Erasmus+ KA2 "DIGICODE" (Digital Competences for Improving Security and Defence Education)

Programme: ERASMUS +, Key Action 2 Cooperation for innovation and the exchange of good practices, Action Strategic Partnerships, Action Type Strategic Partnership for vocational education and traininig PROJECT NO 2020-1-PL01-KA226-096192. Partners: Military University of Technology, Warsaw, Poland Coordinator; Military Technical Academy "Ferdinand I", Bucharest, Romania; "Vasil Levski" National Military University, Bulgaria; Università degli Studi di Torino, Italy. Prof. Marchisio was the scientific responsible and coordinator of the Turin node.

30/04/2021 – 29/04/2023

European Research Project Erasmus+ KA2 MGS "Military Gender Studies", Project No. 2020-1-PT01-KA203-078544

Partners: Military Academy di Lisbona – Portugal Coordinator, Land Forces Academy di Sibiu – Romania, National Military Academy di Veliko Tarnovo - Bulgaria and University of Turin Italy in collaboration with Comando per la Formazione e Scuola di Applicazione dell'Esercito of Turin. Prof.

</td></tr>
</table>

Marchisio was the scientific responsible and coordinator of the Turin node

28/12/2020 – 30/06/2023

European Research Project "Smart - Science And Mathematics Advanced Research For Good Teaching". Program: ERASMUS+, Key Action 2 Cooperation for innovation and the exchange of good practices, Action Strategic Partnerships, Action Type Strategic Partnership for vocational education and traininig Grant 2014 -1-IT01-KA202-002679 Period 01/09/2014 - 31/10/2016.

Prof. Marchisio was the scientific responsible and coordinator of the Turin node. Other partners of the European project: General Directorate of Jurisdictions of School and for the Evaluation of the MIUR national education system, IS Carlo Anti of Villafranca di Verona (Project Coordinator), the Academy of Sciences of Turin, University of RomaTre, Chalmers University of Goteborg (Sweden), TU Delft University of Technology (Holland), St. Thomas-Gymnasium of Wettenhausen (Germany), Radnooti School of Pecs (Hungary) and Resources in Growth of Confindustria Italia. Project homepage: http://smart.carloanti.it/.

The aim of the biennial project is to develop initiatives that promote innovation and the exchange of experiences and good practices between different types of organizations, in relation to the teaching of the disciplines of the mathematical, scientific and technological areas, with reference to both methodologies and tools, and with particular attention to the connection between the secondary school, the university and the world of work. Project goals:

- An increase in the professional skills of teachers and an innovation in the teacher training system.

- The acquisition of tools and methodologies that have facilitated the achievement of STEM skills.

- The improvement of mathematical skills and basic skills in science thanks to the introduction of advanced technological tools in teaching the two disciplines to facilitate their learning by students.

- The development of skills that increase learning opportunities for mobility through stronger cooperation between the world of education and training and the world of work.

The main output of the Project is the construction of two Open Online Courses entitled "Mathematical Modeling" and "Observing, Measuring and Modeling in Science" which were feasible at the address www.opensmart.unito.it for which the Turin node is responsible for the realization. The course is available to teachers of upper secondary schools.

From 01-09-2014 to 31-10-2016.

Research Project "Digital Math Training". She is the scientific responsible for the Project financed by the CRT Foundation within the Diderot Program. It sees the participation of 3750 third, fourth and fifth year students from over 50 upper secondary schools in Piedmont and Valle d'Aosta. Goals of the project:

- to stimulate and to strengthen mathematical-computer skills through the solution in presence and on the online platform of problems drawn from real life, other scientific disciplines or work contexts, using an advanced computing environment;

- to develop the ability of collaborating online;

- to study individual and collaborative problem solving processes with an advanced computing environment.

Methodology:

- through activities in schools, participating classes are trained in the use of an advanced computing environment for solving mathematical problems in real contexts;

- 450 selected students are placed on a 7-week platform course that involves solving 7 problems, one per week. Students are supported by tutors and peer evaluation and collaboration activities;

- with an intermediate selection, 50 finalists are chosen and they will be able to participate in an advanced 4-week training and a final competition, at the end of which 8 winners will be awarded.

Project platform: http://digitalmatetraining.i-learn.unito.it/.

From 01-10-2014 to 30-11-2020.

Research Project "Connected Guys - Network To Develop Talents And Offer Orientation Opportunities". Part of the "ALPIM - Ligurian Association for Minors" Project, Scientific Manager of the Turin node: Prof. Marchisio. The "Connected Guys" project arrived first in the ranking for Liguria and Sardinia in the "Bando Adolescenza", Call of february 2017 of "Con i Bambini – impresa sociale srl" implementing entity of the "Fondo per il contrasto della Povertà Educativa Minorile", fully owned from the "Con Sud" Foundation. Within the action, the University of Turin will develop virtual learning courses, taking advantage of the skills gained in the "School of Homework" Project, training courses for teachers of the scientific disciplines of lower and upper secondary schools and mathematics recovery on the platform dedicated to students of the schools participating in the project with greater difficulties. The training courses include hours in attendance at a school in Genoa participating in the project and on the platform in synchronous and asynchronous mode on: to build a virtual learning community for students, to innovative teaching methods to facilitate recovery and develop skills, the use of an advanced computing environment for teaching mathematics, the construction of online tests with automatic assessment for self-learning. The teacher is invited to work with the methodologies learned with at least one class and will be invited to produce content independently. The activities for students (3rd year of lower secondary school and first two years of upper secondary school) take place on the platform with a university tutor during extra-school hours. The platform dedicated to the Project will be set up and managed by UniTO. Within it, the community of teachers will be created and that will allow them to compare, share materials and communitiw of students who can practice collaborative learning and self-assessment of their progress. Platform address: https://ragazziconnessi.i-learn.unito.it/.

From 13-03-2018 to 30-12-2021.

Research project "TRAMPOLINE for I4.0 - TRAiners and Mentors' develoPement and imprOvement about new strategic LINEs", WINNER of one of the 32 University Projects for the call "EX-POST" financed by the Compagnia di San Paolo. The project "TRAMPOLINE for I4.0" (ERC SSH Area) had been presented as Erasmus + KA2 - Cooperation for innovation and the exchange of good practices in 2017 obtaining 94/100 in the final evaluation and arriving first with a positive evaluation but not funded.

From 01-12-2018 to today.

Research project "OPERA - Open Program for Educational Resources and Activities". She is the head of the OPERA Project financed by the Compagnia di San Paolo within the framework of the agreement with the University of Turin for the three-year period 2019-2021. Main goals of the Project:

1. Integration of the e-learning platform of the University of Turin with additional innovative multimedia teaching systems capable of responding to the needs of teachers of different disciplinary fields.

2. Realization of synchronous and asynchronous tutoring sessions to support the teachings of the Start@UniTO program.

3. Realization on Orient@mente of the interactive courses of all degree courses offered by the University of Turin.

4. Construction of training modules, even short ones, in online or blended mode shared with institutions and training institutions (USR, Command for training and Application School, Polytechnic of Turin and other universities). Some will be in Italian and others in English.

5. Enhancement of the e-learning platform as a Hub for the University's online resources and activities. Enhancement of services, hardware and software.

6. Development of adaptive methodologies for a personalized, flexible and international training offer and their experimentation with students.

7. Activation of a Center of skills and services for E-Learning and innovative training in terms of Teaching lab. The center will have dedicated spaces, tools such as servers, computers supplied, and staff.

From 01-09-2019 to today.

TEACHING ACTIVITY

Responsibility and coordination

President of the Integrated Study Course in Strategic Sciences (2013 - 2019). The degree courses are 4, two bachelor's and two master's:

- Degree course in Strategic Sciences inter-university with the University of Modena and Reggio Emilia (Code 055703), in agreement with the Ministry of Defence, Command for Training and Application School of the Army of Torino, Military Academy of Modena and University of Modena and Reggio Emilia, Class of Degrees in Defence and Security Sciences L / DS;
- Degree course in Strategic and Security Sciences (Code 055702), Class of Degrees in Defence and Security Sciences L / DS;
- Master of Science in Strategic and Military Sciences (Code 055504) in agreement with the Ministry of Defence, Command for Training and Application School of the Army of Torino, Class of Master's Degrees in Defence and Security Sciences LM / DS ;
- Degree Course in Strategic Sciences (Code 055503) Class of the master's degrees in Defence and Security Sciences LM / DS;

Vice - President of the Integrated Study Course in Strategic Sciences (2010 - 2013)

Coordinator of the Postgraduate Course of SUISS "Legal-Legal Consultant of the Commander " A.Y. 2017/2018, 2018/19, 2019/20, 2020/21, 2021/22, 2022/23..

Coordinator of the Post-graduate specialization course of SUISS "Negotiating activities" A.Y. 2017/2018, 2018/19, 2019/20, 2020/21, 2021/22, 2022/23..

Coordinator of the Natural Sciences Class of the SSST- School of Higher Studies Ferdinando Rossi 2014 - 2017

Head of the strategic project of the University of Torino Orient@mente (2015-present)

Coordinator of the strategic project of the University of Torino Start@unito (2017-present)

Head of the Strategic Project of the University of Torino OPERA (2019-present)

Head of the Strategic Project of the University of Torino FOUNDATION PROGRAMME (2022-present)

Vice-Director of CIRDA - Interdepartmental Center for Teaching Research and Teaching Update, from 21/06/2019 - today

Representative of the University of Torino within the Company's Board of Directors for the management of the Business Incubator and for the Technology Transfer of the University of Torino (2i3T) 2015 - today

Services for students | **ORIENTATION - TUTORED - PLACEMENT**

Member of the OTP Commission (Orientation-Tutoring-Placement) of the University of Torino (from 2004 - today)

Contact person for the orientation of SUISS, the School of Strategic Sciences (2004-2019).

Member of the TARM Working Group of the University of Torino 2017-present

Alternanza Scuola e Lavoro: with the Digital Math Training Project and at the didactic secretariat of SUISS, the School of Strategic Sciences, I was the university contact person (company tutor) for over 120 formative projects of "alternanza scuola e lavoro" for secondary school students each academic year: 20015-16, 2016-17, 2017-18, 2018-19

Online tutoring: she was the scientific manager of the online tutoring project that created a platform that offers the following services to students:

- an online desk dedicated exclusively to more complex subjects or in which students have more difficulties, able to offer online tutors for study support and to support face-to-face lessons by uploading the online material that can be used freely in complete autonomy and

at any time, thus increasing training opportunities;

- spaces for collaboration and cooperation between students;
- above all to working students the possibility of recovering knowledge and removing obstacles to a profitable attendance of courses.

Platform url: http://tutoratoonline.orientamente.unito.it/

Orient@mente: creator and the scientific manager of the Orient@mente platform that offers the following services to students:

- Orientation routes, to explore the required attitudes and skills and including forums and remote meetings with tutors to present questions and doubts (24 three-year courses and 1 master's)
- Test area with quizzes and tests with automatic evaluation to verify their basic knowledge, useful for all students who want to enrol in any degree program that includes an orientation or selective test that includes scientific disciplines (12 courses)
- Realignment Courses (4 courses: Biology, Chemistry, Physics, Mathematics)

Presentations in different occasions, especially in meetings aimed at referring teachers for the orientation of second grade secondary schools.

Platform url: https://orientamente.unito.it/

Start@unito: coordinator of Start@unito which is a tool for orientation, facilitation of motivation, encouragement, support for the start of the university training path, with a positive impact on reducing the drop-out rate. It consists of 50 open online courses on broad and general topics, preparatory to the first-year modules already included in the university's study plans.

Platform url: https://start.unito.it

Presentations in different occasions, especially in meetings aimed at referring teachers for the orientation of second grade secondary schools.

Curricular internships: for students of the Degree in Strategic and Security Sciences and of the Master's in Strategic Sciences, who have the opportunity to do internships with a large number of ECTSs, she met with managers of companies and public and private institutions for the stipulation of agreements with the University of Torino for the realization of traineeships (Archdiocese of Torino, Institute of Humanitarian Rights of Sanremo, Application School of Torino, ...).

INTERNATIONALIZATION

Member of the University of Torino Commission for International Mobility, 2013 - present

Member of the Erasmus and Internationalization Commission of SUISS, the School of Strategic Sciences (2010-2019).

Responsible for numerous Bilateral Agreements with European universities and institutions for incoming and outgoing mobility of staff, teachers, and students and for traineeship positions

Participation in various events in which I presented the training provided by SUISS, the School of Strategic Sciences, for civilian students and for officers of the Army. In particular:

ISODOMA Canada May 2017: an international forum dedicated to the training of young officers in the Academies. Civil and military personnel involved in the training of officers participate in this forum.

International Military Academic Forum IMAF, Austria May 2019: an international forum to discuss the training and training of officers

Study visit of the Israeli inter-ministerial delegation organized by CIMEA - 25 September 2019, University of Torino

Attrass: in collaboration with Prof. Carla Marello, I created the online course Attrass provided through the Orient@mente platform dedicated to foreign students, to allow them to practice to better understand written Italian and in particular the Italian of university lessons

Erasmus Digital Archive: on the Orinet@mente online platform, a call to the Erasmus Digital Archive Section, dedicated to university students who want to leave for a period of mobility, with video interviews, statistical analysis, connections and contacts with students who have already lived or are experiencing a period of mobility (2 courses)

Foundation Programme: collaboration as a member of the scientific committee. The Foundation Programme of the University of Torino has developed an online path to allow students who have only 11 years of schooling to complete their twelfth year in order to enrol in university. Together with prof.

Bruno Barberis I am the module leader of: Mathematical Language and Problem Solving and a member of the exam commission (September 2019)

Platform url: https://foundationprogramme.unito.it/

Military Erasmus: in collaboration with the Command for Training and Application School, within the European initiative for the exchange of young officers inspired by Erasmus (called Military Erasmus), organized in the academic years 2013/14, 2014 /15, 2015/16, 2016/17, 2017/18, 2018/19, 2019/20, 2020/21 the three three-week international modules (two remotely and one in attendance), 2021/22,

- CSDP Common Security and Defence Policy
- LOAC Law of Armed Conflict
- BIO&BIO Biosafety and Bioterrorism

which each year provide for the participation of 50 civil and military students (student officers) of Italian and foreign universities and military institutions and teachers of Italian and foreign universities and military institutions. Starting 2022/23 the International Modules become 4:

- CSDP Common Security and Defence Policy
- LOAC Law of Armed Conflict
- BIO&BIO Biosafety and Bioterrorism
- PROBLEM SOLVING & CRITICAL THINKING

and as BIP – Blendes Intensive Programmes inside Erasmus programme 2022-2027.

COLLABORATIONS ART. 11

Member of numerous commissions for the assignment of:

- Collaborations art.11 (200 hours) for the students of the University of Torino to make them collaborate in collaborative activities at the administrative secretariats and in activities as tutors in the projects Scuola dei Compiti now Compiti@casa (120 tutors), Scuola Per Tutti (6 -8 tutors), Digital Math Training (12 tutors), Orient@mente, Ucra@ina

University teaching

Since PhD, I was responsible of first and second level teaching activities at the University of Torino

School of Medicine (from A.Y. 2019/20 - present)

Degree in Biotechnology (from 2019/20)

Master Degree in in Biotechnology and Chemical Sciences in Diagnostics (from 2022/23)

School of Nature Sciences (Former Faculty of Science MFN) (1996/97 - present)

Degree in Mathematics

Master's Degree in Mathematics

Degree in Mathematics for Finance and Insurance

Degree in Geological Sciences

SUISS - Interdepartmental University School in Strategic Sciences (A.Y. 2002/03 - present)

Inter-university degree in Strategic Sciences

Degree in Strategic and Security Sciences

Master's degree in Strategic Sciences

Master's degree in Strategic and Military Sciences

SSST F. Rossi High School of the University of Torino

A.Y. 2009/10, 2010/11, 2011/12, 2012/13, 2013/14, 2014/15, 2015/16, 2016/17.

SAA - School of Business Administration

A.Y. 1998/99 and 1999/2000, 2002/2003

Teacher of the **Mathematics School "Namibian International Spring School in Mathematics (NAISSMA 2022)**" for students of the Master Degree and the PhD in Mathematics. Spring School funded within the "Mentoring African Research in Mathematics" project funded by London Mathematical Society, University of Windhoek, Namibia October-November 2022 (https://www.marm-lms.unam-namibia.org/NAISSMA/NAISSMA_2022.htm

Third level for the PhD in Mathematics, Digital Humanities and for the EMS - European Mathematical Society

From the academic year 2002-2003 I am the holder of Mathematics courses and its applications also in study courses other than study courses in Mathematics.

In the various courses (for courses of study in mathematics but above all for courses of study other than those in Mathematics) I used for teaching, in order to facilitate learning and to offer students useful skills in their university and professional career, a Virtual Learning Environment (Moodle platform) integrated with an Advanced Computing Environment and an Automatic Assessment System.

Training of future mathematics teachers

S.I.S.:

For the special course enabling law 143 of 2006:

- Holder of the Mini Geometry Course in Torino (Class A059)
- Holder of the Mini Course in Relations and Functions in Torino (Class A059)
- Holder of the Mini Course on Fundamentals of Mathematics (Class A047)
- Holder of the Mini Course in Geometry B Torino (Classes A047 / A049)

Participation in the SIS state exams commission enabling course 143 (January 2008)

Member of the S.I.S. of the University of Torino (September 2007).

Co-owner (with Prof. G. Pidello) of the Arithmetic Laboratory A.Y. 2007/08 and 2008/09

T.F.A. A.Y. 2010-11 and 2011-2012

- Holder of the Algebra Laboratory (Class A047)
- Holder of the Geometry Laboratory (Class A059)
- Holder of the Geometry Course (Class A059)

Development of online courses

For secondary school students

MATE-BOOSTER. Path for the enhancement of mathematical skills created on an integrated Moodle platform and tested with the first classes of IIS E. Bona di Biella.

Physics course for a third language high school class. Made on a Moodle platform and tested in a class of high school "G. and Q. Sella" in Biella, in collaboration with Prof. Flavia Antonino. March - May 2015

Statistical path for a third high school scientific class. Made on a Moodle platform and tested in a class of the "Galileo Ferraris" Scientific High School in Torino, in collaboration with prof. Andrea Doveri. March - May 2015

COSAM - Mathematics courses to verify the input skills. Made on a Moodle platform offered to the first, second, third and fourth classes of IS Carlo Anti of Villafranca di Verona as part of the "Mate4" project. September 2015; September 2016, September 2017.

MATH in ADVANCE. Mathematics course that aims to facilitate the transition from first grade secondary school to second grade secondary school. Realized as part of the School for all project and experimented in the school years 2018/19 and 2019/20 by students who enrolled in the first year at the Amaldi-Sraffa School of Orbassano (Torino). Platform url: https://scuolapertutti.i-learn.unito.it/

Courses to enter University

MATHEMATICAL LANGUAGE AND PROBLEM SOLVING - FOUNDATION PROGRAMME

Made together with prof. Bruno Barberis. It is one of the 8 10 ECTS courses of the Foundation Programme of the University of Torino, an online path to allow students who have only 11 years of schooling to achieve the twelfth year in order to enrol in universities in Italy. 5 ECTSs contain mathematics content considered basic for access to university and 5 ECTSs contain the applications of the topics of the first 5 ECTSs in the logic of also developing problem solving skills useful for facing the university path and the world of work. Platform url: https://foundationprogramme.unito.it/

University modules

MATHEMATICS IN E-LEARNING - START@UNITO

12 ECTS course created with prof. Barberis. The module is aimed at students of the first year of a scientific study course or not. The main training objective is to develop mathematics and modelling skills useful for the study of natural and economic social sciences. Platform url: https://start.unito.it

• MATHEMATICAL MODELING - START@UNITO

Teaching from two courses of 6 ECTS each ECTS created with prof. Barberis, Prof. Galluzzi and Prof. Giraudo. The module is taught in English and it is aimed at students of the master's degree, in particular those of the master's degree courses in Strategic Sciences and Strategic and Military Sciences. The module aims to develop mathematics, statistics and modelling skills useful for applications in social sciences (first path), logistics and economics (second path). Platform url: https://start.unito.it

Open Online Course for the training of teachers of Mathematics of secondary schools

MATHEMATICAL MODELING - SMART

Open online Course in English for Mathematics teachers entitled Mathematical Modelling. Developed on the platform of the European SMART project in collaboration with the other foreign partners of the Project with the aim of offering teachers a teaching of mathematics according to the philosophy of problem solving and with the use of new technologies that make it possible to understand pervasiveness, depth and the important applications that mathematics has in everyday life for students. Platform address: https://opensmart.miurprogettopps.unito.it

Thesis supervision **DOCTORAL THESIS**

Supervision of the doctoral thesis in apprenticeship in Mathematics of Dr. Michele Fioravera, XXXI cycle (Thesis discussion and title achievement on 30/09/2019)

Supervision of the doctoral thesis in Mathematics by Dr. Alice Barana, XXXII cycle (Thesis discussion scheduled for autumn 2020)

Supervision of the doctoral thesis in Digital Humanities by Dr. Cecilia Fissore, XXXV cycle

Supervision of the doctoral thesis in Digital Humanities by Dr. Francesco Floris, XXXVII cycle

Supervision of the doctoral thesis in Digital Humanities by Dr. Valeria Fradiante, XXXVIII cycle

Supervision of the doctoral thesis in Strategic Sciences by Dr. Antonino Cambria, XXXVIII cycle

Referee for numerous PhD Thesis on the following topis: Digital Education, E-learning, Didactic of Mathematics

1st AND 2nd LEVEL MASTER THESIS

Supervision of the thesis of Dr. Francesco Floris for the University Master in "Data Analysis for Business Intelligence and data science" A.Y. 2018/2019 (Thesis discussion March 2020)

BACHELOR'S AND MASTER'S THESIS

Supervision of numerous bachelor's and master's thesis in Mathematics.

Supervision of numerous bachelor's and master's thesis in Strategic Sciences.

DEGREE THESIS for the achievement of the qualification issued by the SSST

Supervision of the Thesis by Andrea Gallo Rosso entitled: New technologies and learning

methodologies for Physics: the Moodle platform integrated with the Maple suite (2016)

Supervision of the thesis by Elena Ferrero entitled: Design and construction of an insulin bolus calculator with the help of an Advanced Calculation Environment (2018)

Some final theses for the achievement of teaching qualification at the end of the T.F.A. Class A059 A.Y. 2010-11 and 2011-2012

Teaching courses for teachers of STEM disciplines of secondary schools	Laboratory Problem Posing and Solving (CLA - University Language Center - UniTO) Training intervention for mathematics teachers within the CLIL specialization course. Torino, 09/16/2015

Laboratory "Advanced computational thinking and posing & solving problem" (foundation for the school of the bank foundation Compagnia di San Paolo) held in September - November 2018 and July 2019 - September 2019. Laboratory activated as part of the Reconnections project in collaboration with Torino Wireless Foundation and the Mathematics Department of the University of Torino, lasting 32 hours, aimed at secondary school teachers.

Stem training (network of Piemonte scientific high schools), held in December 2017 - June 2018. Training of teachers of STEM disciplines on interdisciplinary problem posing and problem solving, construction of virtual learning communities, automatic evaluation.

Design and evaluate activities for the development of problem solving and computational thinking skills (Università di Torino, Istituzione Scolastica Ottavio Jacquemet di Verrès, AO) October 2021 – May 2022 Lecturer in the training course for kindergarten and primary school teachers of the Institute on problem solving and computational thinking. The course, lasting 20 hours, took place partly face-to-face and partly online and involved 24 teachers.

Ambasciatori Star@Unito nelle scuole (Università di Torino), Marzo 2021 – maggio 2022 Lecturer in the training course for secondary school teachers, aimed at developing innovative and interactive teaching methodologies for school guidance. The course was held in two editions, the first in March-May 2021, the second between October 2021 and May 2022. Both editions were held online for 12 hours of synchronous training each, to which was added an experiment of teachers using materials from the Start@Unito platform. About 30 teachers participated for each edition.

Formative assessment in STEM disciplines (Università di Torino, Istituzione Scolastica Ottavio Jacquemet di Verrès, AO) March – May 2021 Lecturer in the training course for kindergarten and primary school teachers of the Institute on formative assessment for mathematics and scientific disciplines. The 20-hour course was held online and involved 24 teachers.

Automated formative assessment in STEM disciplines (Università di Torino, IIS Fusinieri, Vicenza) March – April 2021 Lecturer in the online training course for teachers of scientific disciplines on automatic formative assessment, lasting 22 hours in synchronous and asynchronous mode, organized within the FUTURE LABS at the IIS Fusinieri in Vicenza. The course involved 30 teachers.

Teachers training on "Percorsi di Educazione Civica e Sostenibilità con il Problem Solving", Digital Math Training (Fondazione CRT) February – May 2021 and February – May 2022 Design and implementation of a 25-hour online training course in synchronous and asynchronous mode for secondary school mathematics teachers participating in the Digital Math Training 2020/2021 and 2021/2022 project.

Collaborates with the Academy of Sciences of Turin from 2013-14 holding every year courses for STEM and Math Teachers within the Polo didattico torinese of Fondazione "I Lincei per la Scuola".

- CT&PS – Computational Thinking e Critical Thinking A.Y. 2013/14, 2014/15. 2015716
- MATH-INF2.0 A. 2016/17, 2017/18
- Laboratory La matematica nel contemporaneo, A.Y. 2020/2021
- Laboratory Problem Posing e Solving, AY 2021-22, 2022-23

Many Training courses for teachers within the PP&S project of MIUR

I have held numerous training courses for teachers, specific on the use of the Moodle virtual learning environment, the Maple Advanced Computing Environment, the Maple T.A. automatic evaluation system. and the Maple SIM virtual simulation laboratory for teaching mathematics and other scientific disciplines, at numerous schools participating in the PP&S Project and remotely through the PP&S platform.

Primary and Secondary Schools	Mathematics and physics at the first state artistic high school of Torino. School Years 94/95 (65 days), 95/96 (35 days)

Temporary substitute as teacher in the elementary school at Boves, for a total of 36 days distributed in the School Years 89/90, 90/91, 93/94, 94/95

PUBLIC ENGAGEMENT	
Public Engagement Activities	

PUBLIC ENGAGEMENT
Public Engagement Activities

Pi Greco Day, 14/03/2022, Italian Ministry of Education

Event promoted by the Ministry of Education, with the scientific contribution of the Department of Molecular Biotechnology and Health Sciences of the University of Turin, to celebrate pi day with the aim of bringing all young people closer to mathematics and with the purpose of communicating the commitment of the ministry and of the schools for the learning of mathematics and scientific disciplines. Three main components formed the event:

- Face-to-face competition, in the halls of the Ministry of Education

- Online competition for all students of all Italian schools and abroad

- Contest for writing a poem about Pi

Orientation Project BIOTECXFUTURE, February 2021

The BIOTECXFUTURE orientation project has as its main purpose the promotion of an active and conscious vocational orientation of the male and female students who, at the end of the secondary school, must make the choice of their university path and the enhancement of the figure of the professional biotechnologist formed by study courses created by the Department of Molecular Biotechnology and Health Sciences.

Orientation Project "ORME Per Scegliere" ORientamento MEdicina e Professioni Sanitarie, February 2021 Scuola di Medicina, Università di Torino

The main purpose of the Orientation Project "ORME To Choose" is to offer training guidance that can help you choose your course of study, and consequently your profession, in the health sector with knowledge, awareness and responsibility. It is aimed at students in the final years of secondary school and their teachers who deal with guidance within the various schools.

Public Engagement project of the University of Turin **LADICO (2021-2023)**

The main aim is to implement transdisciplinary digital laboratories for the dissemination of knowledge and the development of digital skills. The Coordinator id Prof. Andrea Balbo. I collaborated for the implementation of 4 laboratories:

- Reading data

- Data protection and awareness of digital identity

- Electoral systems and Mathematics

- Being in the curves

Interventions as a digital education expert in two episodes of the RAI series "Laboratorio Scuola" and one of the series "I Maestri" created by RAI in collaboration with the Ministry of Education.

October and November 2021

The episodes were aired on Rai Scuola and Rai 3 in 2022. They can be viewed on RaiPlay at the link: https://www.raiplay.it/programmi

STEM PLAY (Researchers' Night 2021)

20-26/09/2021

Design and implementation of a mathematical game activity for secondary schools, proposed by the Delta Research Group of the University of Turin for the 2021 Researcher's Night in Turin.

Pi Greco Day 14/03/2020, Liceo Scientifico Statale "Galileo Ferraris"

Event promoted by the "Galileo Ferraris" State Scientific High School in collaboration with the Department of Molecular Biotechnology and Health Sciences of the University of Turin, to celebrate pi day. The students played an online competition with contextualized problems that required the use of mathematics to solve them.

STEM PLAY (Researchers' Night 2020)

23-25/11/2020

Design and implementation of a mathematical game activity for secondary schools, proposed by the Delta Research Group of the University of Turin for the 2020 Researcher's Night in Turin..

Publications   2022

Marchisio, M., Rabellino, S., Roman, F. & Sacchet, M. (2022). Esperienza di Didattica Universitaria Ibrida con Moodle, Atti di MoodleMoot Italia 2022.

Grzelak, M., Marchisio, M., Moldoveanu, C., Nikolov, L., Roman, F., Rykała, M., Sacchet, M., Spinello, E. (2022). Teachers' Digital Competences Before and During the Covid-19 Pandemic for the Improvement of Security and Defence Higher Education. Proceedings of the 16th International Conference on e-Learning (EL2022, part of the Multi-conference MCCSIS 2022), IADIS Press, pp. 68-75.

Marchisio, M., Roman, F., Sacchet, M., Spinello, E. (2022). Teachers' perception of higher education in a transition scenario, 2022 IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC), Los Alamitos, CA, USA, 2022, pp. 139-144, doi: 10.1109/COMPSAC54236.2022.00028

Marchisio, M., Rabellino, S., Roman, F., Sacchet, M. (2022). Valuable Features of Hybrid Teaching in a Higher Education Context. In: Väljataga, T., Laanpere, M. (eds) Shaping the Digital Transformation of the Education Ecosystem in Europe. EDEN 2022. Communications in Computer and Information Science, vol 1639. Springer, Cham. https://doi.org/10.1007/978-3-031-20518-7_2

E. Corino, C. Fissore, M. Marchisio (2022). Adaptive exercises and formative assessment for english remedial action. In Orchestration of Learning Environments in the Digital World (pp. 3-19). Springer, Cham.

C. Fissore, F. Floris, M. Marchisio, S. Rabellino (2022). Una piattaforma Moodle integrata per tutta la scuola incorporata nel progetto nazionale PP&S. Negli Atti di MoodleMoot Italia 2021, pp. 245-252. Media Touch 2000.

A. Brancaccio, C. Demartini, C. Fissore, F. Floris, M. Marchisio, C. Pardini, S. Rabellino, R. Zich, (2022). Moodle per il problem posing and solving: 10 anni di attività. Negli Atti di MoodleMoot Italia 2021, pp. 357-363. Media Touch 2000.

C. Fissore, F. Floris, M. Marchisio, S. Rabellino (2022). Una piattaforma Moodle integrata per tutta la scuola incorporata nel progetto nazionale PP&S. In BRICKS - ISSN:2239-6187, vol. 3, pp.63-73.

E. Corino, C. Fissore, M. Marchisio (2022). Data Driven Learning activities within a Digital Learning Environment to study the specialized language of Mathematics. In 2022 IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC), 2022, pp. 167-176, doi: 10.1109/COMPSAC54236.2022.00032.

F. Casasso, C. Fissore, V. Fradiante, M. Marchisio (2022). Developing computational thinking and problem solving skills in the early childhood and primary school. In: EDULEARN22 Proceedings. IATED, 2022. p. 9316-9325.

V. Bonanzinga, F. Casasso, C. Fissore, V. Fradiante, M. Marchisio (2022). University training for future primary school teachers on automatic formative assessment. In Proceedings of the International Conference E-Learning 2022, pp. 119-126. **Selected as one of the two Outstanding Papers of the Conference.**

C. Fissore, F. Floris, V. Fradiante, M. Marchisio, S. Rabellino (2022). Percorsi di PCTO con Moodle per un orientamento formativo e per far scoprire le figure professionali formate dalla Scuola di Medicina dell'Università di Torino. Negli Atti del Convegno MoodleMoot Italia 2022, MediaTouch 2000, pp. 153-160.

C. Fissore, F. Floris, M. Marchisio, M. Sacchet (2022). Didactic activities on Artificial Intelligence: the perspective of STEM teachers. In Proceedings of the 19th international conference on Cognition and Exploratory Learning in the Digital Age (CELDA 2022), IADIS Press, pp. 11-18.

Floris, F., Marchisio, M., Rabellino, S., Roman, F. & Sacchet, M. (2022), "Clustering Techniques to investigate Engagement and Performance in Online Mathematics Courses ", Proceedings of the 19th international conference on Cognition and Exploratory Learning in the Digital Age (CELDA 2022), IADIS Press, pp. 27-34. **Selected as Best Research Paper Award.**

Floris, F., Marchisio, M., Rabellino, S., Sacchet, M. (2022). A Digital Environment for University Guidance: An Analysis of the Academic Results of Students Who Practice Self-Assessment in Orient@mente, an Open Online Platform to Facilitate the Transition from Secondary School to Higher Education. In: Ifenthaler, D., Isaías, P., Sampson, D.G. (eds) Orchestration of Learning Environments in the Digital World. Cognition and Exploratory Learning in the Digital Age. Springer, Cham. https://doi.org/10.1007/978-3-030-90944-4_5

Barana, A., Casasso, F., Fissore, C., Fradiante, V., Marchisio, M. (2022). Sviluppo del pensiero

computazionale nella scuola dell'infanzia e nella scuola primaria. Mondo Digitale, Anno XX(97), 1-13.

Barana, A., Casasso, F., Marchisio, M., Patania, E. (2022). Comunità di pratica in un ambiente digitale per apprendere la matematica e la fisica. Bricks, 12(3), 31-35.

Barana, A., Boetti, G., & Marchisio, M. (2022). Self-Assessment in the Development of Mathematical Problem-Solving Skills. Education Sciences, 12(2), 81. https://doi.org/10.3390/educsci12020081

Barana, A., Marchisio, M. (2022). A model for the analysis of the interactions in a Digital Learning Environment during mathematical activities. In Csapó, B., Uhomoibhi, J. (eds), Computer Supported Education. CSEDU 2021 (pp. 429–448). Communications in Computer and Information Science, vol 1624. Springer, Cham. https://doi.org/10.1007/978-3-031-14756-2_21

Barana, A., Marchisio, M., Sacchet, M., & Salusso, D. (2022). Teaching Online EMI Mathematics Courses: A Proposal to Combine Gamification and Adaptive Learning. In C. Huertas-Abril, E. Fernández-Ahumada, & N. Adamuz-Povedano (Ed.), Handbook of Research on International Approaches and Practices for Gamifying Mathematics (pp. 304-324). IGI Global. https://doi.org/10.4018/978-1-7998-9660-9.ch015

Barana, A., Marchisio, M., Sacchet, M., Salusso, D. (2022). Teaching online EMI Mathematics courses: a proposal to combine gamification and adaptive learning. Book of Abstracts International Conference on Gamifying Mathematics in CLIL Contexts: Approaches and Good Practices, 20-21.

Barana, A., Fissore, C., Marchisio, M., Roman, F., Sacchet, M., (2022). Evolution of teachers' perception of Automatic Formative Assessment during a training course. In Twelfth Congress of the European Society for Research in Mathematics Education (CERME12), Feb 2022, Bozen-Bolzano, Italy. ffhal-03753442.

Marchisio, M., Remogna, S., Roman, F., Sacchet, M., Teaching Mathematics to Non-Mathematics Majors through Problem Solving and New Technologies, Education Sciences, 2022, 12(1), 34.

Artusi L., Brancaccio, A., Demartini C., Esposito, M., Marchisio, M., Pardini, C., Patrucco, A., & Zich, R. (2022). Problem posing & solving. Innovative didactics for the teaching of mathematics.Volume created with funding from the Directorate General for school systems, for the evaluation and internationalization of the national education system of the Ministry of Education. The volume was presented at the Turin International Book Fair on May 23, 2022.

Sacchi, M., Marchisio, M., Barana, A., Rabellino, S., Comunità di Apprendimento con Moodle 3. Editor Associazione Italiana Utenti Moodle (AIUM), 2022.

Accepted and in course of pubblication

Barana, A., Conte, A., Fissore, C., Marchisio, M., Roman, F., Problem solving and generalization with an Advanced Computing Environment. Accepted for the presentatiom and for the publication in the Proceedings 12th International Congress on Mathematics Education (ICME 14).

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MEMBERSHIP AND AWARDS

Membership

Member of SISM - Italian Society of History of Mathematics

Member of AIRDM – Associazione Italiana Ricercatori in Didattica della Matematica

Member of ERM - European Society for Research in Mathematics Education, period 2019–2020

Member of INSTICC - Institute for Systems and Technologies of Information, Control and Communication, year 2019.

Honours and awards

Author of a apper selected as **best paper** at the Cobference EMEMITALIA 2016: Paper "Open platform of self-paced MOOCS for the continual improvement of academic guidance and knowledge strengthening in tertiary education", Barana, A., Bogino, A., Fioravera, M., Marchisio, M., and Rabellino, S.

Author of a paper selected as **keynote paper** at the Conference EMEMITALIA 2016: Paper: "Assessment of individual and collaborative e-learning in problem solving activities, Barana, A., Marchisio, M., and Rabellino, S.

Best Research Paper Award: Fissore, C., Marchisio, M., Rabellino, S. (2020). Secondary School Teacher Support and Training for Online Teaching during the Covid-19 Pandemic. EDEN 2020 (European Distance and E-learning Network) 29th Annual Conference, virtual conference, Timisoara, Romania.

Outstanding Papers of EL Conference 2022. Paper: Bonanzinga, V., Casasso, F., Fissore, C., Fradiante, V., Marchisio, M. University training for future primary school teachers on automatic formative assessment.

Best Papers Award: Conference DIDAMATICA 2022: Paper "Sviluppo del pensiero computazionale nella scuola dell'infanzia e nella scuola primaria", A. Barana, F. Casasso, C. Fissore, V. Fradiante, M. Marchisio. The paper was selected for the publication in the Journal Mondo Digitale.

Best Paper Award: "Clustering Techniques to investigate Engagement and Performance in Online Mathematics Courses", 19th international conference on Cognition and Exploratory Learning in the Digital Age

Personal data   I hereby authorize the use of my personal data in accordance to the GDPR 679/16 - "European regulation on the protection of personal data".

Torino, 23/02/2023   Marina Marchisio Conte