

## Curriculum Vitae

ANTINISCA DI MARCO, Ph.D.

### PERSONAL DATA

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### CURRENT POSITION(S)

**(October 2017 - today) Associate professor** at the Department of Information Engineering, Computer Science and Mathematics, University of L'Aquila (Italy).

**(October 2018 - today) Head of the Study Programme** in Applied Data Science.

**(November 2015 - today) Director** of the University of L'Aquila Node of the InfoLife CINI Laboratory. The laboratory deals with Bioinformatics and System Biology research topics (July 2015-today).

**(December 2014 - today) Member of the Executive Board of Off Site Art**, an association established in L'Aquila that promotes culture initiative.

### PAST POSITION(S)

**(March 2008 - September 2017) Assistant professor**, University of L'Aquila, Italy

**(May 2014 - February 2018) Member of the Board of Directors of SMARTLY NATIVES OF SMARTY LIVING s.r.l.**, a Spin-off of the University of L'Aquila.

### PROJECT EVALUATOR

**2016 - today** External Expert for the Europea Commission.

**2016 Evaluator**, Università degli Studi di Sassari - Call for proposals 2015-Research Projects - Fondazione di Sardegna.

### AFFILIATION TO RESEARCH CENTERS OR INSTITUTIONS

- External collaborator of the SENSO LAB at the Middlesex University, London, U.K.
- Member of Smart Cities & Communities CINI Laboratory

- Reference person for the CINI Digital Health Working Group of the "ICT for health-care" research group of University of L'Aquila

## **PATENTS AND SPIN-OFF**

- SMARTLY NATIVES OF SMARTY LIVING s.r.l. : it is a Spin-off of the University of L'Aquila, born on May 2014, for which Antiniscia Di Marco is one of the founding and majority partner.

## **SIGNIFICANT BREAKS**

**2006 - maternity** : in November her first daughter was born.

**2009 - earthquake in L'Aquila:** she was forced to move from L'Aquila for 9 months, from April to December 2009.

**2012 - maternity** : in November her second daughter was born.

## **EDUCATION**

**June 2005, Ph.D. in Computer Science**, University of L'Aquila, Italy. *Title of thesis:* Performance Analysis of Software Architectures.

**July 2001, "Laurea" in Computer Science**, earned with the maximum score and Summa cum Laude at University of L'Aquila, Italy. *Title of thesis:* Managing the Consistency of Complex Structured Documents.

## **ACADEMCS BOARDS AND UNIVERSITY SCIENTIFIC COMMITTEE**

**(October 2018 - today) Head of the Master Study Programme in Applied Data Science**, University of L'Aquila.

**(January 2019 - today) University of L'Aquila delegate** for the STEM working Group on gender issues of CRUI.

**(October 2018 - today) Coordinator of PINKAMP**, a project to attract high school girls in STEM studies. PINKAMP ([www.pinkamp.disim.univaq.it](http://www.pinkamp.disim.univaq.it)) is a project of the Department of Information Engineering, Computer Science and Mathematics, University of L'Aquila.

**(December 2017 - today) Chair of the Scientific Committee of the Digital Class**, University of L'Aquila, Italy.

**(October 2018 - today) Member of the Teaching Committee of DISIM Department**, University of L'Aquila, Italy.

**(October 2017 - September 2018) Member of the Committee designing the new inter-departmental Master Degree in Applied Data Science**, University of L'Aquila, Italy.

**(January 2020 - today) Member of the SIGSOFT EDI Subcommittee** to create a Code of Conduct for SIGSOFT events.

## **RESEARCH INTERESTS**

Software modeling, Performance Analysis, Run-time reconfiguration (*2002-today*). Non-Functional Analysis of Context-aware systems, Performance Antipatterns, Bio-inspired paradigms for self-adaptive systems, Internet of Things and Wireless Sensor Networks (*since 2010*) Bioinformatica and Data Science (2013-today). Mobile Health (since 2014).

## RESEARCH FELLOWSHIP

**March 2005 - September 2005** Computer Science Department, University College London - London, U.K. - working on the performance analysis of ubiquitous software systems

**May 2012** West Virginia University - College of Engineering and Mineral Resources - Lane Department of Computer Science

## COORDINATION OF RESEARCH PROJECTS

- Territori Aperti (December 2018- December 2022 - grant of 1.8M ) - is a national project dealing with reconstruction processes after natural disasters ([www.territoriaperti.univaq.it](http://www.territoriaperti.univaq.it)). The project aims to realize an information system of data coming from main earthquakes in Italy, to provide a research virtual environment where to run data analysis (based on machine learning techniques and statistical models) and to specify guidelines to guide in future events. Antinisca Di Marco is the Scientific Coordinator of research IT infrastructure of Territori Aperti research project.
- iCARE (ERC-POC) (June 2016- November 2017)- iCARE ERC Proof Of Concept Grant, Proposal number 693680. (2016-2017)- Scientific Coordinator - iCARE aims at creating a technology-aided framework to enable a reliable implementation of cancer targeted therapy at home, addressing underlying challenges, and to make available the monitoring data to enable studies for therapy refinements and reduction of symptoms and side effects.iCARE will propose new organizational models to strengthen the cooperation and interaction between health professionals, social carers, informal caregivers and patients to support new patient pathways emerging from the increased application of cancer targeted therapies at home.
- DIANA (May 2016-April2017) Data science analysis to determine the Influence of multiple conjoint mirnAs on caNcer diseAse: the DIANA project. - Azure Microsoft Research Award - In this project, we want to move forward in order to obtain a list of potential genes relating to a group of significantly altered miRNAs in cancer diseases for different species. One of the principal objective of the project is to identify functional clusters of target genes that could be related to the provided set of microRNAs. The system must built up networks to visualize the possible circuits and pathways in which selected miRNAs could be involved, providing a potential resource for other researches focused on cancer disease. The expected outcomes are: i) a new graph DB, based on NEO4J technology collecting all the results of the project that are the information related to MiRNAs, their target genes, and all the functional relations and annotations we identify in our experiments; ii) new functional prediction techniques to determine putative

target genes influenced by a set of conjoint MicroRNA; iii) a user-friendly and agile graphical interface easy to use for biotechnologies and biologists that helps them to query the DB in order to find new miRNAs-targets (multi-hop) relations and hence miRNA-pathways relations ; iv) possibly, identify new and unobserved miRNAs-targets (multi-hop) relations that can guide towards new directions in in-vivo experiments; v) provide DIANA API to push towards cloud paradigm for future services built on top of DIANA.

- FP7-Ideas-ERC starting Grant (2010-2015): Video-oriented UWB-based Intelligent Ubiquitous Sensing (grant number 240555)- Scientific Coordinator for University of L'Aquila (UDA) Beneficiary. VISION Project is a multi-beneficiary ERC grant awarding Dajana Cassioli. It aims to developing an innovative infrastructure providing real-time sensing services, with particular emphasis on 3D video, with mobile and context-aware operation: 60 GHz UWB radios to enable broadband transmissions in the Wireless Sensor Network; a comprehensive channel model to optimize the radio design; novel techniques to manage the huge number of nodes for ubiquitous sensing; innovative tools to support the development process of intelligent services; full cross-layer adaptability to external conditions to assure the best achievable performance and support of Quality of Services.
- ARES (mirnAs' influence on canceR dESease) (2015)- IS CRA Class C Projects (code: HP10CV8XPV). MicroRNAs (miRNAs) are a class of small, non-coding RNAs that generated a great impact in the molecular biology field. Given their involvement in various pathologies including cancers, miRNAs functions started to be investigated with the help of bioinformatics approaches that allows to predict interaction with potential target genes [mirbase.org, microrna.org, genemania.org]. In this project, we want to move forward in order to obtain a list of potential genes relating to a group of significantly altered miRNAs in HCC for different species. We want to start to predict target genes for a selected miRNAs. One of the final objective of the project is to identify functional of clusters target genes could be related to. Finally, we built up networks to visualize the possible circuits and pathways in which selected miRNAs could be involved, providing a potential resource for other researches focused on HCC. The expected outcomes are: i) a new graph DB collecting all the results of the project that are the information related to MiRNAs, their target genes, and all the functional relations and annotations we identify in our experiments; ii) a user-friendly and agile graphical interface easy to use for biotechnologies and biologists that helps them to query the DB in order to find new miRNAs-targets (multi-hop) relations; iii) possibly, identify new and unobserved miRNAs-targets (multi-hop) relations that can guide towards new directions in in-vivo experiments.

## **PARTICIPATION TO RESEARCH PROJECTS**

The research project I have been involved in are:

- FP7-FET CONNECT: Emergent Connectors for Eternal Software Intensive Networked Systems - R&D of UDA Team

- FP6-STREP PLASTIC: Providing Lightweight and Adaptable Service Technology for pervasive Information and Communication - - R&D of UDA Team
- MIUR PRIN (Italian project) - D-ASAP: Architetture Software Adattabili e Affidabili per Sistemi Pervasivi - R&D of UDA Team
- RIDITT RICOSTRUIRE (Italian project)2012-2015 - Trasferimento tecnologico e creazione di nuove imprese nell'ambito delle tecnologie ICT avanzate applicate allo sviluppo economico e territoriale post sisma.
- FP7 - STREP SIMPLICITY - Secure, Internet-able, Mobile Platforms Leading Citizens Towards simplicity - Collaborator of Università of TorVergata
- MIUR PRIN (Italian project) - SAHARA - Software Architectures for Heterogeneous Access Infrastructures - R&D of UDA Team
- MIUR FIRB (Italian project)- Performance Evaluation of Complex Systems: Techniques, Methodologies and Tools - Collaborator of Università of TorVergata

## **PARTICIPATION TO Ph.D. BOARD**

**Informatica e Application** Ph.D. Course at University of L'Aquila - 2010-2015

**Ingegneria e Scienze dell'Informazione** Ph.D. Course at University of L'Aquila - 2012-today

## **SUPERVISING AND TUTORING EXPERIENCE**

**Bachelor theses supervised:** more than 30 theses since 2004 at University of L'Aquila. Two BSC theses produced the following research papers: i) Flavia Di Paolo et al. MICE: Monitoring and Modeling the Context Evolution. SASO Workshops 2012: 139-144. ii) Claudio Pompilio et al. Yet another meta-model to specify non-functional properties. QASBA 2011: 9-16

**Master theses supervised:** 10 theses in Computer Science and one thesis in Mathematics and one in Bioinformatics, both on Bioinformatics topics (since 2007) at University of L'Aquila.

**Ph.D. Students:** 7 Ph.D. students since 2009 at University of L'Aquila.

-Francesco Gallo (started his program in 2009 at University of L'Aquila) focuses his Ph.D. program on the study of adaptable systems. In particular, his goal was to specify and develop a framework that allows the specification and execution of reconfiguration plans. The framework is called Proteus and it follows the STEM paradigm we devised for adaptive systems, as inspired by STEM cells and in general by biological cell lifecycle. The Proteus framework actually implements part of the paradigm and is composed by: (i) a language (PROTEUS Language) that defines concepts to specify reconfiguration plans, and (ii) an engine that interprets the plan and executes it on the real applications. Such an engine is distributed and each Proteus resource is equipped with this engine. To develop the framework we used several programming languages (Java, Python, C), but the final release is in GROOVY language that allowed us to implement all features and capabilities of PROTEUS.

-Stefano Pace (started his program in 2010 at University of L'Aquila) is developing a framework for the modeling, analysis and code generation of AGILLA-based Wireless Sensor Networks application. At the moment the devised framework permits to model the application by using UML language and specific devised UML profiles, to simulate the application behavior, and to perform timing analysis and performance analysis of multiple agents sharing a common WSN node.

-Mai Abu-Seir started on December 2014. She is working on context-aware programming. In particular, her research project is to devise a new model-driven methodology that is able to transform a context-unaware system into a context-aware system. The approach assumes that an external study elicits the relevant context variability that lets more advantageous contextual variables emerge. The result of this external study is properly modelled with suitable notation and the final aim is to define a set of transformation that generate new code implementing the context-aware version of the original system that is able to sense the context changing and to adapt itself to such changes.

-Walter Tiberi started on November 2016. The objective of his thesis is to define a security framework composed of tools, (agent-based WSN middlewares, intrusion detection systems) techniques (hybrid cryptography, elliptic curve cryptography, hardware acceleration for cryptography, blockchains as anti-tampering mechanism) and methodologies (model-based porting for WSN software applications) specifically designed for the resourceconstrained devices, with particular focus on Wireless Sensor Networks.

-Evans Etrue Howard started on January 2019. He is working in the contest of Territori Aperti and specifically on how to robustly allocate shelters/facilities in a prescribed safe area in an emergency logistic planning; and on how to safely evacuate/route people in-case of a natural disaster considering the uncertainties that might occur during the disaster. So his thesis will focus on robust optimization models built for predisaster (facility location, stock pre-positioning) and "immediate-term post-disaster" (evacuation) planning of logistics provisions. Immediate-term post-disaster planning is conducted immediately after disaster strikes and will involve activities such as evacuation of displaced people.

-Ghulam Mudassir Malik started on January 2019. He is working in the contest of Territori Aperti to realize an approach of decision-support system for post-disaster re-construction planning of buildings damaged by a natural disaster. The proposed framework determines a set of alternative plans of a damaged area that can be a whole city or a part of it, which satisfy all constraints, accommodate political priorities, and guarantee social benefits for the affected population. The determined plans are then provided to public servants that select the plan to implement.

Andrea Bianchi started on November 2020. The development of high-throughput technologies has created a need for researchers to develop strategies for analyzing and interpreting the massive amounts of data they generate. At the same moment, the growth of AI and its techniques has led to the development of several advanced tools and now researchers and doctors have access to huge volumes of data, sophisticated sensors, imaging tools, and other sources. Bioinformatics ap-

proaches are used to analyze biological data to sketch logical conclusions. Online, there is a gigantic amount of data in biological databases and the annotation of such data is still a question for the researchers or doctors. In this contest, Andrea wants to combine bioinformatics and AI to improve disease diagnosis and focusing the study on individual patients. The aim is to improve the personalize medicine leveraging on the huge amount of biological data available online.

## **EVALUATION COMMISSION FOR DOCTORAL DEFENSE**

- Defense of Mr. Nikola Rendeski, Faculty of Electrical Engineering and Information Technologies, Ss. Cyril and Methodius University, SKOPJE, Rep. of MACEDONIA (November 11th 2014)

## **ORGANIZATION OF INTERNATIONAL CONFERENCES/WORKSHOPS**

- 20th IEEE Int. Conference on Pervasive Computing and Communication (PERCOM 2022) - Workshop Chair
- 19th IEEE Int. Conference on Pervasive Computing and Communication (PERCOM 2021) - PhD Forum Chair
- 18th IEEE Int. Conference on Pervasive Computing and Communication (PERCOM 2020) - Demo Chair
- 10th International Conference on Performance Engineering (ICPE 2019) - General Chair
- 14th European Performance Engineering Workshop (EPEW2017) - Program Chair
- 1st CINI InfoLife Laboratory Workshop (INFOLIFE2017) - Program Chair
- 8th International Conference on Performance Engineering (ICPE 2017) - Local Chair
- Italian Student Contest on Software Engineering (SCORE-it) at the 37th International Conference on Software Engineering (ICSE2015) - Co-Chair
- Special session on the quest for case studies within the 4th International Workshop on Principles of Engineering Service-Oriented Systems (PESOS 2012) - Co-Chair
- The 23rd IEEE/ACM International Conference on Automated Software Engineering (ASE) 2008. - Local Organization Member
- The 1st International Workshop on Automated engineerIng of Autonomous and run-tiMe evolvIng Systems (ARAMIS 2008).- Co-Chair

## **MAIN PROGRAM COMMITTEES**

- IEEE International Conference on Pervasive computing and communications (PerCom 2017-2022)
- ACM/SPEC International Conference on Performance Engineering (ICPE 2017, ICPE 2020 and 2021)

- International Workshop on Automated and verifiable Software sYstem DEvelopment (ASYDE 2019 and 2020)
- International Workshop on Model-Driven Engineering for Software Architecture (MDE4SA 2020 and 2021)
- Future@STAF 2020 Future of Modeling
- European Conference on Modelling and Simulation (ECMS 2019 - 2020)
- International Conference on Software Engineering (ICSE 2018-2019) - Demo and Poster Tracks
- the 2nd IEEE International Conference on Software Architecture (ICSA2018)
- womENCourage - ACM-W Europe Celebration of Women in Computing (2016,2018)
- International Workshop on domAin specific Model-based AppRoach to vErification and validation (AMARETTO 2017)
- International Workshop on Formal Engineering approaches to Software Components and Architectures, (FESCA 2014 - 2017)
- International Conference on the Quality of Software Architectures (2009-2015).
- Wireless Sensor Networks Symposium - International Wireless Communications and Mobile Computing Conference (2013-2014)
- International Workshop on Engineering Energy Efficient WSNs (EEEW 2014 and 2015)
- International Workshop on Principles of Engineering Service-Oriented Systems (PESOS 2013-2015)
- European Performance Engineering Workshop (EPEW 2012)
- Workshop on Research and Use of Multiformalism Modeling Methods (WRUMMM 2012 and 2014)
- The Seventh International Conference on Software Engineering Advances (ICSEA 2012)
- 4th International Symposium on Applied Sciences in Biomedical and Communication Technologies (ISABEL 2011);
- 13th European Workshop on Dependable Computing (EWDC 2011)
- Special Session on "Quality and Service-Oriented Applications" of Euromicro Conference on Software Engineering and Advanced Applications (SEAA) 2008 - 2010.
- International Conference on Global Defense and Business Continuity, ICGD&BC.
- International Conference on Digital Telecommunications (ICDT)
- International Conference on Intensive Applications and Services (INTENSIVE).

#### **OTHER REVIEWING ACTIVITY**

- Reviewer for several international journals:  
*IEEE Transactions on Software Engineering.*  
*IEEE Internet Computing.*

*Elsevier Journal of Systems and Software.*  
*International Journal of Computing and Information Sciences.*  
*ACM Computer Survey.*  
*ACM Transactions on Autonomous and Adaptive Systems.*  
*Springer Journal of Software and Systems Modeling.*

## AWARDS

- **Best Paper Candidate:** *Definition of an enriched GIS network for evacuation planning.* Evans Etrue Howard, Lorenza Pasquini, Claudio Arbib, Antinisca Di Marco e Eliseo Clementini. 7th International Conference on Geographical Information Systems Theory, Applications and Management, GISTAM 2021.
- **Best Paper Award:** *Performance modeling and analysis of context-aware mobile software systems.* Luca Berardinelli, Vittorio Cortellessa, Antinisca Di Marco. Fundamental Approaches to Software Engineering. Paphos, Cyprus, 22 - 26 March, 2010.
- **Best Poster Award:** *Learning from the Cell Life-Cycle: A Self-adaptive Paradigm,* Antinisca Di Marco, Francesco Gallo, Paola Inverardi and Rodolfo Ippoliti, in: ECSA, pages 485-488, 2010
- **Fast Breaking Paper:** in March 2006 Thomson-Scientific Essential Science Indicators indicate the journal paper: *Model-Based Performance Prediction in Software Development: A Survey* (2004), Simonetta Balsamo, Antinisca Di Marco, Paola Inverardi and Marta Simeoni, in: IEEE Trans. Software Eng., 30:5(295-310) as one of the most cited in the field of Computer Science.

## GRANTS

- EUR 5000 grant from INdAM for the realization of the project "PINKAMP 2021".
- EUR 20000 grant from Fondo Territori Lavoro e Conoscenza CGIL CISL UIL for the realization of the project "double PINKAMP 2020-21".
- EUR 2000 grant from Fondazione Cassa di Risparmio della Provincia dell'Aquila for the realization of the project "PINKAMP 2020".
- EUR 40000 grant from Fondo Territori Lavoro e Conoscenza CGIL CISL UIL for the realization of the project "PINKAMP 2019".
- Azure Microsoft Research Award May 2016 for the DIANA project (\$20000 for Azure use).
- EUR 12000 grant from the University of L'Aquila for the PERFCycle project.
- EUR 10000 grant for CARE-me that was chosen as one of the top business ideas presented from the project "RICOSTRUIRE: Trasferimento Tecnologico e creazione di nuove imprese nell'ambito delle tecnologie ICT avanzate applicate allo sviluppo economico e territoriale post sisma" (Ministero dello Sviluppo Economico-Programma RIDITT Rete Italiana per La Diffusione dell'Innovazione

e il Trasferimento Tecnologico alle imprese). Care-me is the core-business of SMARTLY s.r.l. spin-off

- EUR 12000 grant by the Comitato Abruzzo, through the initiative Quick impact Project. On the list of projects funded in the first call, CARE-me occupies the fourth place on 18. The grant was a financial support for the establishment of SMARTLY s.r.l.
- EUR 5000 grant from Fondazione Cassa di Risparmio della Provincia dell'Aquila for the realization of the project "CARE-me: non ti sCordARE di ME" whose aim is the realization of a prototype of a smart baby seat-care January, 2015.

### INVITED PRESENTATIONS AND KEYNOTE

- "DevOps and WSN App: a Bio-Inspired Paradigm" A. Di Marco. Proceedings of the 8th ACM/SPEC on International Conference on Performance Engineering Companion, pp.157-158, L'Aquila, April 2017.

- "A bioinformatic approach to predict the Influence of multiple conjoint mirnAs on caNcer diseAse: the DIANA project", Bioinformatics Day @ DAIS, Venice, Italy, 7 July 2016.

- "The Role of Context in Extra-functional Verification and Validation", International Workshop on domain specific Model-based Approaches to vErificaTiOn and validaTiOn (AMARETTO 2016), Rome, Italy, February 2016.

- "A Software Performance Engineering Approach", April 2005, Computer Science Department, University College London, London, U.K.

### INVITED PAPERS

Antiniscia Di Marco, Stefano Pace, Stefano Marchesani, Luigi Pomante: Model-driven agent generation approach for adaptable and resource-aware sensor node. SESENA 2012: 64-65

### TEACHING EXPERIENCE

**Lecturer** at University of L'Aquila:

*Programming for Data Science* (6 CFU)(a.y.2018-today)

*Bioinformatics* (6 CFU)(2013-today)

*Abilità Informatiche* (2 CFU)(a.y.2018-today)

*Basi Informatiche* (2 CFU) (since a.y. 2015-2016) - Scuola di Specializzazione in Chirurgia Generale.

*Basi Informatiche* (2 CFU) (since a.y. 2015-2016) - Scuola di Specializzazione in Chirurgia Vascolare.

*Basi Informatiche* (1 CFU) (since a.y. 2015-2016) - Scuola di Specializzazione in Oncologia.

*Basi Informatiche* (2 CFU) (since a.y. 2015-2016) - Scuola di Specializzazione in Neurologia.

*Basi Informatiche* (2 CFU) (since a.y. 2015-2016) - Scuola di Specializzazione in Radioterapia.

*Basi Informatiche* (2 CFU) (since a.y. 2015-2016) - Scuola di Specializzazione in Radiodiagnostica.

*Bioinformatics* (1 CFU) (since a.y. 2015-2016) - Master di I livello "Diagnostica molecolare delle malattie genetiche, tumorali ed infettive".

*Mobile Health* (2 CFU) (2015-2016) - Master di II livello "Cure di supporto e palliative in oncologia".

*Software Engineering with Lab.* (9 CFU)(2013-2015)

*DIDATTICA DEI PROGETTI E DEL SOFTWARE COMPLESSO (SSD INF/01),*

*Tirocinio Formativo Attivo 2015 - classe 042. Progettazione e Sviluppo di Applicazioni di Rete (SSD INF/01), Percorsi Abilitanti Speciali a.a.2013/2014. Software Engineering* (6 CFU)(2008-2013)

*Fundamentals of Programming* (6 CFU) (2007)

*Informatics and Statics Laboratory* (3 CFU) (2005)

## MEMBER OF MAIN AND EXTERNAL SELECTING BOARD

**(June 2020 - July 2020)** Membro di Consorzio per Bioinformatico presso l'I.Z.S. "G. Caporale", Teramo.

**(February 2016 - April 2016)** Membro di Consorzio per Bioinformatico presso l'I.Z.S. "G. Caporale", Teramo.

**(October 2013)** Membro di Commissione giudicatrice del Concorso di ammissione Dottorato di Ricerca in Ingegneria e scienze dell'informazione, XXIX ciclo.

## ORGANIZER OF CULTURAL EVENTS

**09-12 May 2019** SENSOLTRE, organized in collaboration with the IT Association Without Borders, to bring the SENSOLTRE exhibition to our city on the occasion of the tenth anniversary of the earthquake. Sensoltre is the first multisensory path in the dark between tactile paintings created by INFORMATICI SENZA FRONTIERE onlus, with the help of NFC technology (near communication).

**28 November 2018** "Oltre i limiti" an event of PINKAMP le ragazze contano! during which Elena Grifoni Winters, the chief of staff of the European Space Agency (ESA), gave the testimony of her career.

**(9 February 2016)** DONNA E SCIENZA: PASSATO, PRESENTE E FUTURO. Da Anna Santucci alle scienziate dell'Aquila di oggi. "Prospettive Roses" day, a project of the municipality of L'Aquila.

**(30 September 2016)** Street Science Univaq, Researchers Night organized by University of L'Aquila.

**(21 October 2016)** #TecHeroes loves #Gamedev Tour, University of L'Aquila.

**(26 October 2016)** Computer Science Career Day, University of L'Aquila.

## PAST EMPLOYMENTS

- (September 2006 - March 2007) Post-Doc Fellow** at the Computer Science Department, University of L'Aquila (Italy), working on *Modeling, design and validation of software architecture for context-aware services on B3G networks that satisfy user QoS requirements*.
- (September 2005 - April 2006) Post-Doc Fellow** at the Computer Science Department, University of TorVergata (Italy), working on *Performance Evaluation of complex software system through models*.
- (March 2005 - September 2006) Research Fellow** at the Computer Science Department, University of TorVergata (Italy), working on *Modeling and Performance Evaluation of the Simplicity Architecture*.
- (December 2003 ) Research Fellow** at the Computer Science Department, University of L'Aquila (Italy), working on *Dynamic reconfiguration of software systems in order to guarantee a good level of their performance indices*.
- (March 2002 - June 2002 ) Research Fellow** at the Computer Science Department, University of L'Aquila (Italy), working on *Early performance validation of Software Architecture*.
- (November 2001 - December 2001 ) Research Fellow** at the Computer Science Department, University of L'Aquila (Italy), working on *Performance analysis of Software Architecture*.

### Tutorials at international Conferences

1. Cortellessa V., **Di Marco A.**, Inverardi P., *Software model to performance model transformations*, QEST 2004 Tutorial Lecture, Enschede, The Netherlands, September 2004.  
The tutorial has been also presented, in a revised and updated version, to the 27th International Conference on Software Engineering, May 15 - 21, 2005 - St. Louis (Missouri, USA).
2. Berardinelli L., Cortellessa V., **Di Marco A.**, *Transformations from software models to quality models: mechanisms, approaches, technologies, tools*, Tutorial Lecture, The Seventh International Workshop on Software and Performance (WOSP 2008) Princeton, NJ, USA, June 23-26, 2008.

### Other teaching activities

*Contract as teacher* at BITMEDIA S.r.L. (Rome - ITALY) in the courses: "Java Language, Java RMI and Distributed Environments" (March 2002 - June 2002), "Unified Modeling Language", (June 2004).

*Contract as teacher* for Consorzio Quorum (Rome - ITALY) in the courses: "Unified Modeling Language" (June 2004), "Web application" (April 2004 - May 2004), IFTS course (December 2003 - January 2004), "Analyst and Programmer of C/C++" (September 2004, September 2002 - October 2002).

*Contract as teacher* for Regione Abruzzo and Consorzio Multimedia in the courses: “Internet Project Manager” (December 2001 - May 2002).

## **OTHER SKILLS**

- **Natural Languages:** Italian and English.
- ACM SifSoft member since 2002.

## **PUBLICATIONS**

### **Book-Monograph**

1. Model-Based Software Performance Analysis. Vittorio Cortellessa, Antinisa Di Marco Paola Inverardi. First Edition, Springer, May 2011.

### **International journals and conferences**

Please refer to the link:

<http://www.informatik.uni-trier.de/~ley/pers/hd/m/Marco:Antinisa.Di>

My google scholar profile is public and visible at the link

[scholar.google.com/citations?user=QVzuSyIAAAAJ&hl=it](https://scholar.google.com/citations?user=QVzuSyIAAAAJ&hl=it)