



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s)	Gianmarco De Francisci Morales		
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Nationality	Italian		
Date of birth	07/07/1983		

Work experience

Dates	Oct 11 →
Occupation or position held	Postdoctoral researcher
Main activities and responsibilities	Research on Web mining.
Name and address of employer	Yahoo! Research Barcelona (Spain)
Dates	Aug 11 →
Occupation or position held	Apache Pig committer
Main activities and responsibilities	Committer for the Apache Pig project from the Hadoop ecosystem. http://pig.apache.org Member of the open source community that develops Pig, a framework for large scale data analysis.
Name and address of employer	Apache Software Foundation
Dates	Nov 09 →
Occupation or position held	Research associate
Main activities and responsibilities	Research on cloud computing for large scale data analysis. Participation to international conferences to present research results.
Name and address of employer	ISTI-CNR (National Research Council) Pisa (Italy)
Dates	Oct 10 - Sep 11
Occupation or position held	Research intern
Main activities and responsibilities	Research on Data Intensive Scalable Computing. - Social Content Matching in MapReduce. - From Chatter to Headlines: Harnessing the Real-Time Web for Personalized News Recommendation. - Scaling out influence estimation on social networks. - SafeKeeper: fault tolerance for parallel stream processing systems (Yahoo! S4).
Name and address of employer	Yahoo! Research Barcelona (Spain)
Dates	May 11 - Aug 11
Occupation or position held	Google Summer of Code student
Main activities and responsibilities	Contribution to Pig, an open source platform for analyzing large data sets. Pig is a Hadoop ecosystem project from the Apache Software Foundation. http://pig.apache.org Sugar for Pig: syntactic sugar features to simplify the use of Pig. (Java, ANTLR) https://issues.apache.org/jira/browse/PIG-1926 https://issues.apache.org/jira/browse/PIG-1904

Name and address of employer	Google / Apache Software Foundation
Dates	May 10 - Aug 10
Occupation or position held	Google Summer of Code student
Main activities and responsibilities	Contribution to Pig, an open source platform for analyzing large data sets. Pig is a Hadoop ecosystem project from the Apache Software Foundation. http://pig.apache.org Design and implementation of a binary comparator for secondary sort. (Java) The new comparator is 10x faster than the original one, and produced a 20% end-to-end performance increase for relevant queries. https://issues.apache.org/jira/browse/PIG-1295
Name and address of employer	Google / Apache Software Foundation
Dates	May 07 - Feb 09
Occupation or position held	System administrator
Main activities and responsibilities	Administration of Linux clusters for High Performance Computing (HPC). Management of Grid middleware (gLite). Porting, integration and development of Grid-enabled and parallel (MPI) applications.
Name and address of employer	Consorzio COMETA Catania (Italy)
Dates	Apr 04 - Jul 04
Occupation or position held	Programmer intern
Main activities and responsibilities	Development of a Java framework for booking and allocation of resources in a Grid environment.
Name and address of employer	INFN (National Institute for Nuclear Physics) Catania (Italy)
Dates	Jun 02 - Sep 02
Occupation or position held	Personal teacher
Main activities and responsibilities	One to one teaching of mathematics, algebra and geometry.

Education and training

Dates	Mar 09 - Mar 12
Title of qualification awarded	PhD in Computer Science and Engineering
Principal subjects / occupational skills covered	First in admission ranking. Scholarship for 3 years sponsored by the European Union. Thesis: "Big Data and the Web: Algorithms for Data Intensive Scalable Computing" Courses: Complex networks. Fundamentals of computer science and engineering. Formal methods for concurrent systems. Advanced networking architectures. Game theory for computer science. Data integration and semistructured databases. Web algorithmics. Techniques for high availability in distributed systems. Anonymity and trust. Data fusion. Developed projects: - Formal verification of the 2PC and 3PC distributed consensus protocols. - Simulator of the deficit round robin scheduling algorithm. (Python)
Name and type of organisation providing education and training	IMT Institute for Advanced Studies Lucca (Italy)

Level in national or international classification	ISCED 6
Dates	3 Jul 10 - 10 Jul 10
Title of qualification awarded	Lipari School on Computational Complex Systems attendance certificate
Principal subjects / occupational skills covered	Social Networks. Graph mining. Social network analysis. Dynamical processes on complex networks. Rise of cooperation in society with greed.
Name and type of organisation providing education and training	Jacob T. Schwartz International School for Scientific Research Lipari (Italy)
Dates	6 Jul 09 - 10 Jul 09
Title of qualification awarded	CASE Summer School attendance certificate
Principal subjects / occupational skills covered	Agile software process management. Test Driven Development (TDD). Continuous testing of configurable systems. Software and process measurement.
Name and type of organisation providing education and training	Free University of Bozen Bolzano (Italy)
Dates	9 Dec 08 - 18 Dec 08
Title of qualification awarded	Matlab course attendance certificate
Principal subjects / occupational skills covered	Matlab: Fundamentals. GUI design. Integration with external languages. Distributed and parallel computing. (ML01 - ML04 - ML05 - DC01)
Name and type of organisation providing education and training	The MathWorks Palermo (Italy)
Dates	Oct 04 - Apr 08
Title of qualification awarded	Master's degree in Computer Engineering, with full marks and honors (110/110 cum laude)
Principal subjects / occupational skills covered	Scholarship for 1 year from ERSU (Regional Agency for University Studies). Additional award for outstanding academic career from University of Catania. Developed projects: - Module for user authentication using digital certificates on the J2EE platform. (Java, Tomcat) - Linux kernel module (for versions 2.4 and 2.6) for dynamic smoothing of IP packets by a fuzzy controller in a soft real-time environment. (C) - Hardware description of a 2 levels cache memory hierarchy. (VHDL) - Hardware description of a communication channel (bus) between processor and memory. (C++, SystemC) - Compiler from "Fuzzy Language" to Java bytecode. (Java) - Image processing web service (2 step filter). (Java, Glassfish) - Web Service enabled three-level information system for university exams management. (C#, MS SQL Server) - Industrial CAN fieldbus simulator. (C++, Omnet) - Distributed system for on-line catalogue management. (Java, RMI, AXIS, MySQL) Thesis: "Multi-objective design space exploration of embedded systems in a Grid environment" (developed in C++, written in English)
Name and type of organisation providing education and training	University of Catania, College of Engineering Catania (Italy)
Dates	Mar 06 - Aug 06
Title of qualification awarded	Erasmus student
Principal subjects / occupational skills covered	Artificial Intelligence. Design Patterns in Java. CNN (Cellular Neural Networks). Erasmus scholarship from ERSU (Regional Agency for University Studies). Socrates scholarship from Univeristy of Catania.

Name and type of organisation providing education and training	Pazmany Peter Catholic University Budapest (Hungary)																																																		
Dates	Oct 01 - Oct 04																																																		
Title of qualification awarded	Bachelor's degree in Computer Engineering, with full marks and honors (110/110 cum laude)																																																		
Principal subjects / occupational skills covered	Scholarship for 2 years from ERSU (Regional Agency for University Studies). Additional scholarship award for achieving full marks and honors in minimum time from ERSU. Developed projects: - Residence management tool. (MS Access) - Digital modulation tool. (Matlab) - Routing algorithm simulator. (Java) - Distributed newsreader (client-server). (Java, RMI, XML) - Spell checker. (C++) - E-Commerce Web site. (PHP, MySQL) Thesis: "Serivzi di allocazione e monitoraggio dei job e delle risorse di una Grid" (Allocation and monitoring services for jobs and resources in a Grid environment, developed in Java)																																																		
Name and type of organisation providing education and training	University of Catania, College of Engineering Catania (Italy)																																																		
Personal skills and competences																																																			
Mother tongue(s)	Italian																																																		
Other language(s)																																																			
Self-assessment <i>European level (*)</i>	<table><tr><th colspan="4">Understanding</th><th colspan="4">Speaking</th><th colspan="2">Writing</th></tr><tr><th colspan="2">Listening</th><th colspan="2">Reading</th><th colspan="2">Spoken interaction</th><th colspan="2">Spoken production</th><th colspan="2"></th></tr><tr><td>C2</td><td>Proficient user</td><td>C2</td><td>Proficient user</td><td>C2</td><td>Proficient user</td><td>C2</td><td>Proficient user</td><td>C2</td><td>Proficient user</td></tr><tr><td>C2</td><td>Proficient user</td><td>C2</td><td>Proficient user</td><td>C2</td><td>Proficient user</td><td>C2</td><td>Proficient user</td><td>C2</td><td>Proficient user</td></tr><tr><td>A2</td><td>Basic User</td><td>A2</td><td>Basic User</td><td>A2</td><td>Basic User</td><td>A2</td><td>Basic User</td><td>A2</td><td>Basic User</td></tr></table>	Understanding				Speaking				Writing		Listening		Reading		Spoken interaction		Spoken production				C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	A2	Basic User	A2	Basic User	A2	Basic User	A2	Basic User	A2	Basic User
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	(*) Common European Framework of Reference (CEF) level																																																		
Social skills and competences	I can easily adapt to different cultural environments. I honed this skill thanks to various trips abroad to study English language, five months spent in Hungary with the Erasmus exchange program, and one year in Spain during my PhD studies. I can effectively cooperate with colleagues in a team. I have successfully worked in a team during my bachelor's internship and while working as a system administrator. I also led different teams for the development of projects for academic courses.																																																		
Organisational skills and competences	Effective time management capability: the short exam periods have taught me to focus on one target at a time to be able to get the most from my abilities. I went through the university with ease while working and cultivating personal interests thanks to self-motivation. I learned how to effectively manage my priorities and adapt myself to the pace needed. I also learned to manage at best my spare time and to appreciate traveling.																																																		
Computer skills and competences	Known languages: Java, C/C++, Python, Bash, C#, PHP, SQL, XML, LaTeX. Big Data technologies (Hadoop ecosystem, Pig, Giraph, S4). Good knowledge of Matlab (scientific computing tool) and ANTLR (parser generator). Version control systems (subversion, git) and build systems (ant+ivy, maven). Optimal knowledge of the most widespread operating systems: Linux, Mac OS X, Windows XP. Databases: MySQL, MS SQL Server. Cluster and computing farm management. Virtualization technologies (VMWare, KVM).																																																		

Artistic skills and competences	Digital photography.
Other skills and competences	Hobbies: cooking, reading, chess, archery, basket, role playing.