

PERSONAL  
INFORMATION**Francesco Pedullà**

## PROFESSIONAL PROFILE

I have a passion for data analysis, mathematical modelling and numerical computing which I apply in all my jobs. My initial experience in High Performance Computing and, later, in Business Intelligence and Machine Learning helped me refine my skills while simultaneously growing in terms of management responsibility. Today I have a level of experience and a set of competencies that help me effectively address innovative, complex challenges in ICT.

I was Adjunct Professor of *Computer Architecture* and *Operating Systems* for 5 academic years between 2002 and 2010 at the University of Rome “La Sapienza”. I have been teaching *Machine Learning* 2016 to 2018 and *Enterprise Architecture* from 2020 to 2021 at LUISS Business School.

I hold a University Degree in *Mechanical Engineering* and a Postgraduate Master's in *Governance of Information Systems*.

## WORK EXPERIENCE

Dec 2020 – **Master Principal Cloud Architect**

Dec 2022

Oracle S.p.A. (Rome)

In the EMEA Technology team of Enterprise Architects. Major responsibilities:

1. Define and support to Cloud migration projects in the areas of DW&A for Financial Services Institutions (Lift programme)
2. Improvement of methods, tools and processes for solution design

Information Technology

May 2018 – **Senior Solutions Architect & Data Scientist**

Nov 2020

Atos S.p.A. (Rome)

Major engagements:

1. OCR for RPA PoC Lead Data Scientist (ENEL)
2. Lead Data Scientist of the “Data Driven Innovation” pilot projects (Bridgestone)
3. Lead Architect of the “Tampa” project (Application Integration and Modernization – Bridgestone)
4. Project Manager & Lead Architect of the “Application Re-engineering” project (Ispettorato Nazionale del Lavoro).

Focal point for Cloud and ML/AI initiatives in the Business & Platform Solutions Business Unit.

Information Technology

Jul 2016 – **ICT Infrastructure & Operations Manager**

Apr 2018

Cassa Depositi e Prestiti (Rome)

Reporting to Head of IT. Manager of ICT Infrastructure & Operations (hardware, operating systems, databases, middleware), accountable for service availability and data integrity. Leading a unit including three offices (Operations, Shared Services and DB/MW) with a staff of over twenty specialists. Main projects:

1. Infrastructure migration to new Data Center architecture
2. Migration from Oracle RDBMS to Open Source software (PostgreSQL, Talend)
3. Disaster Recovery Architecture, with strong focus on data availability, protection and integrity.

Banking/Government

Jan 2010 – **Master Cloud Advisor**

Jun 2016

IBM (Rome)

Recommending, designing and prototyping Cloud solutions for customers in SPGIT area (Spain, Portugal, Greece, Italy, Turkey). Examples: Cloud Services Brokering (INAIL) – IBM Cloud Broker and Cloud HPC (ENEL) – IBM Platform Information Technology

Oct 2006 – **Industry Solutions Architect & Client Technical Advisor**

Dec 2009

IBM (Rome)

Managing the technical relationship with major customers in Italy (Poste Italiane, Finmeccanica) and abroad (Southern Europe). Focus on Public Sector and Homeland Protection and Security.

Information Technology

- Sep 2001 – Oct 2006**    **Consulting Sales Specialist**  
 IBM (Rome)  
 In the Global Business Intelligence Solutions team, presenting and designing BI solutions. Focus on Financial and Public Sectors.  
 Information Technology
- Jun 2001 - Sep 2001**    **Senior Manager**  
 Accenture (Rome)  
 Design and implementation of BI solutions for financial sector customers.  
 Information Technology
- Apr 1999 – Jun 2001**    **IT Platforms Manager**  
 INA SGR/Generali Asset Management (Rome)  
 Manager of IT Operations and Data Manager. Manager of the Risk & Performance Management Project.  
 Insurance
- Dec 1996 – Mar 1999**    **Manager**  
 Andersen Consulting (Rome)  
 Manager of several projects in the fields of Data Integration and Business Intelligence for Telecom Italia.  
 Information Technology
- Dec 1989 – Dec 1996**    **High Performance Computing Specialist**  
 IBM (Roma) – *European Center for Scientific and Engineering Computing*  
 Support to major European industrial and academic customers on scientific and technical software parallelization, performance benchmarking, massive data management, adopting parallel and distributed computing.  
 Information Technology
- Mar 1988 – Dec 1989**    **Analyst/Programmer**  
 ItalcAD (Genoa)  
 In the R&D team, developing FORTRAN code for mechanical CAD/CAM applications.  
 Information Technology

### Education and Training

- Jan 2010 – May 2011**    **Post-graduate Master's Degree in "Governance of Information Systems"**  
 University of Rome III (Rome) - Engineering Department  
 Subjects: Economy, Computer Law, Mathematical Methods for Decision Support, IT Governance, Feasibility Studies and Prototyping, Procurement, Outsourcing, BPR, Large ICT Project Management, ITIL best practices.
- Oct 1980 – Jul 1986**    **Master's Degree in Mechanical Engineering**  
 University of Genoa (Genoa) – Engineering Department  
 Master Thesis: (1) "Data Structures for Mechanical Link Modelling" and (2) "Expert Systems for the Automation of Flexible Manufacturing Systems".
- Oct 1976 – May 1980**    **Certificate of Proficiency in English**  
 University of Oxford / Education at the Honorary Consulate of the United Kingdom in Genoa.

### PERSONAL SKILLS

Mother Tongue Other Languages	Italian				
	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken Interaction	Spoken Production	

English	C1	C2	C1	C2	C1
French	B2	B2	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user (Common European Framework of Reference for Languages)

**Soft Skills** Solution design and implementation at all levels (infrastructure, data, application code, operations). Data analysis and mathematical modelling. Project management with focus on data. Solid mentoring and teaching experience.

**Computer Skills and Certifications**  
**Cloud:** Oracle OCI Certified Architect Professional, OCI HPC and Big Data Solutions Certified Associate, Oracle Machine Learning with Autonomous Database Specialist, OCI Data Science  
**Programming:** ksh/bash, C, C++, FORTRAN, APL2, J, Python, R.  
**Data Management:** SQL programming, ER modelling, OLAP multidimensional analysis  
**Modeling:** IBM's SDS (System Description Language), UML2, Archimate  
**Architecting & Technology:** Open Group Distinguished Architect (2010-2016), Linux Professional Institute LPIC-2 (2015).

**University Teaching**  
 Adjunct Professor of Enterprise Architecture in the Department of Enterprise & Management of LUISS Business School (2020, 2021).  
 Adjunct Professor of Machine Learning Lab in the Postgraduate Master in Big Data Administration at LUISS Business School (MABDA – see <http://businessschool.luiss.it/mabda/the-programme/>) from 2016 to 2018.  
 Adjunct Professor of the Operating Systems Course in the Postgraduate Master TRAMP at University of Rome I in 2009.  
 Adjunct Professor of the Operating Systems Lab in the Degree in Computer Technology at University of Rome I (see [http://twiki.di.uniroma1.it/twiki/view/Lab\\_so\\_1/WebHome](http://twiki.di.uniroma1.it/twiki/view/Lab_so_1/WebHome)) in 2005-2008.  
 Teaching Assistant of the Computer Science course in the Degree in Economics at the University of l'Aquila (1999-2000).

#### ADDITIONAL INFORMATION

**Publications** *Cloud Computing Simplified* – IBM Redbook, downloadable from <http://www.redbooks.ibm.com/abstracts/redp5179.html> (December 2014).  
**Conferences** *BlueMix: Programming in the Cloud* – Innovating Innovation Conference (Rome, Oct. 2014); more info at <http://www.cnr.it/eventi/index/evento/id/13748> (also member of the Scientific Committee).  
**Seminars** *Representing non-functional aspects using TOGAF ArchiMate*, published on IBM DeveloperWorks at <http://www.ibm.com/developerworks/rational/library/nonfunctional-aspects-togaf-archimate> (Apr. 2012).  
*Cloud Networking* – seminar at the Computer Science Department of the University “La Sapienza” of Rome (Feb. 2012).  
*Cloud Computing Architectures* – seminar at the Computer Science Department of the University “La Sapienza” (Nov. 2011).  
*A System Engineering Approach to Virtual Prototyping* – presentation at the International Conference on Virtual Testing and Engineering Simulation in Aerospace Industry (Pratica di Mare, Oct. 2007).  
*Phase Space Reconstruction of Financial Time Series* – CNR Conference on Time Series Analysis (L'Aquila, Apr. 2001).  
*Genetic Algorithms and Portfolio Optimization* – presentation at Airo 2000 (Milan, Sep. 2000).  
*A Transportation Network Analysis Package* – presentation at APL98 ACM Conference, downloadable from <https://dl.acm.org/citation.cfm?id=327634&dl=ACM&coll=DL> (Rome, Jul. 1998).  
*Data Warehousing for Telecom Companies* – presentation at Telecomnet 98 (Milan, Mar. 1998).  
*ADSM on SP2* – IBM Redbook (New York, Nov. 1994).  
*Parallel and Distributed Processing on Clusters of RISC System/6000 Workstations* – AICA Workshop on Parallel Computing (Rome, Jun. 1992).  
*Expert Systems for the Control of Flexible Manufacturing Systems* – published on PIXEL (Oct. 1986).