## curriculum vitae of Roberto Patrizi

Personal Informations First name Last name	Roberto Patrizi
City, Country of birth	Rome, Italy
Citizenship	Italian
Residential city	Rome, Italy
Main Professional Domains	Information Technology, Digital Economy
Specific topics	Big Data, Cloud, Real Time Manufacturing Analytics, Machine Learning, Digital Marketing, Intellectual Property Regulation, Infonomics/Data Monetization, Digital Payments, Industry 4.0, Platform Economy
Cutting-edge technologies	IBM Watson & Cloud Platform (certificated), R, Python, Apache Spark 2.3.0 (Strea NetworkX, TensorFlow, Tableau, KNIME, MongoDB, MySql/MariaDB, Wolfram Ma
Current project	Big Data Manufacturing Analytics system for laminated glass production. Role: Big Scientist
Other technologies	Oracle, SQL Server, MS Access, SQL, Fortran, Pascal, Cobol
Main methodologies	Math modeling, Stochastic simulation, BPMN / UML, ER Data Modeling
Working methodology and Personality	Because of my rigorous scientific education and my wide and deep experience, I a integrate business, technology and scientific methodologies in many domains, bu business, organization and ICT systems.
	My strong personality and my professional approach make me able to pursue and my belief in communication and in organization, allow me to work in team with st challenging situations.
	I also like to teach; I continuously receive appreciation from students and professo
Short Profile	In 1981, I commenced my career in the domain of Information Technology. From software developer, analyst and project leader in various software companies. In Informatica SpA, which I directed until 2011, as President and CEO. I managed stra level of stakeholders. I succeeded in 4 M&A strategic operations, so in 2010 the N by 5 companies and reached the result of 50 millions euros in income, on public a I graduated in Mathematics in 2001, with the best score from Sapienza University, collaborated with the Mathematics Department, specifically on Numeric Analysi published academic papers in Applied Mathematics. In 2012, developing new professional interests in the digital economy, I started m position as Marketing Manager Lalso started academic collaborations in Digital M
	position as Marketing Manager. I also started academic collaborations in Digital N

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University, where I became appointed in January 2016, as Cultore della Materia. From January 2014 - March 2016 I worked as Chief Financial Officer, and from Apr role as Business Scientist.

Bottero SpA, Infocert, Cassa Nazionale Forense, Ministero dell'Interno, ENI, Tele

WIND, Vodafone, 3, Ministero di Giustizia, Camera dei Deputati, SELEX-ELSAG, A

Current roles

Business & Data Scientistl

Recent:

Cultore della Materia in Digital Marketing at Sapienza University

Programme, Engineering, Oracle, HP, IBM, Ericsson, Capgemini

Public and private organizations dealt with

Best projects

- Big Data Manufacturing Analytics system for laminated glass production. I have b Python, Tableau, MariaDB, NetworkX, TensorFlow.
- Education for a large Italian organization across the Italian country. This organizat over 500 agencies. Courses are given by video-conference and in the classroom. processes and their compliance with Payment Service Directive so called PSD2, E
- Strategic Industrial Plan 2018 2020 for a large IT software solution provider. For machine learning regression techniques, implemented by R and KNIME.
- Financial process analysis and reorganization in order to exploiting opportunities Service Directive 2 (PSD2) and decreasing financial fees. In this prohect I have bee techniques by R.
- Research project: "Consumers' behaviors in online music consumption" in collab University (North Carolina – USA). I am using R tool for statistical analysis on dat surveys and social media, in order to discover causes of illegal downloads.
- Readiness and Assessment Maturity Model for Industry 4.0
- Business Plan of a Digital Business Ecosystem in the Cultural & Entertainment fiel (in progress)
- Economic and Industrial assessment and simulation of industry 4.0 paradigm app manufacturing companies (R Studio, MS Dynamics, SQL Server)
- Data Monetization feasibility on Entertainment domain (R Studio, SAP, Oracle)
- Big Data Analytics system in the digital music Industry (R Studio, SAP, Oracle, Qlik
- Feasibility and business plan of the constitution of an Electronic Money Institutio 2010/110/EU, EMD – Electorinic Money Directive, (MySQL, Excel, Wolfram Mathe
- Feasibility of a Digital Platform for a unique access to Italian e-Justice (2015 201
- Software Prototype for a two-sided market catalog of a TELCO operator (MySQL, 2015 / 2016)
- Legal and software requirements for an high-quality driver simulator compliant w (2016)

Past:

- Call center workforce management optimization, in collaboration with Aquila Uni
- Machine Learning project research with Sapienza University (2002 2005)
- Oil & Gas fees' agency network planning and optimization (2002 2005)
- Vulnerability Assessment and Mapping at World Food Programme in Rome (1995
- Data Warehouse of mobile devices maintenance for Telecom Italia Mobile (1997 Object)
- CRM for Telecom Italia Mobile (1997 1998, Oracle, Visual Basic, C)
- Enterprise Databases integration, Telecom Italia (1995 1997, IBM/MVS, DB2)
- Data networks planning and optimization (1994, IBM MVS, DB2, MPSX)

• Oil & Gas production plan optimization (1986 – 1990, IBM MVS, IMS/DL1, Many educational projects on ICT field, developed for large companies, including graduates (1892 – 1985)

## **Professional experiences**

April 2016 – Present	Business & Data Scientist
January 2016 – Present	Cultore della Materia in Digital Marketing at Economics Faculty at Master Degree in Management delle Imprese University of Rome "La Sapienza"
January 2014 – March 2016	Chief Financial Officer at 01 Tribe Srl
May 1994 - October.2012	Manager at several companies of the Nous Informatica Group
September 2007 - March 2013	CEO at CORITED Scientific Consortium (with Federico II University of Naples)
September 1998 - March 2010	Vice President at CERTIA Scientific Consortium (with Tor Vergata University in Roma)
Nov. 1991 – April 1994	Project Leader at Consulsistemi SpA
May 1986 - October 1991	Project Leader at Spectrum SpA
September 1985 – April 1986	IT Manager at EUREST SpA (now SODEXO SpA, ex Wagon Lits Group)
May 1981 – August 1985	Developer, Analyst and Teacher at Logica SpA
Education	

Recent online certifications

IBM:

• IBM Watson and Clodu Platform Foundations

University of California, San Diego (USCS)

- Machine Learning with Big Data
- Big Data Integration and Processing
- Big Data Modeling and Management Systems
- Introduction to Big Data

Johns Hopkins University

- Exploratory Data Analysis
- Getting and Cleaning Data
- R Programming
- The Data Scientist's Toolbox

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• Machine Learning

2001 - 2005	Assistant Supervisor at Mathematics Degree of Sapienza University for degree's theses :
	<ul> <li>Numeric solution of Fermi-Dirac integrals</li> </ul>
	<ul> <li>A numeric method for eigenvalues calculus of Fredholm-Stieltjes integral linear equations</li> </ul>
2001	Mathematics Degree, with the best score, from Sapienza University in Roma, thesis "A numeric method for solution of Fredholm integral linear equations"
	<ul> <li>Attendance at many courses, seminars and workshops in marketing, Software Engineering, Company Law</li> </ul>
Professional interests	Machine Learning, Big Data
	SPID - Sistema Pubblico di Identità Digitale (DPCM del 24 ottobre 2014) Regulation 910/2014/EU on electronic identification and trust services for electronic transactions in the internal market (eIDAS Regulation) adopted by the co-legislators on 23 July 2014
	Digital Payments: Directives 2007/64/CE, 2009/110/CE, 2015/2366/UE (PSD2)
	Multi-sided market business models
	Intellectual Property Protection. Directive 2014/26/EU on
	February,26 <sup>th</sup> ,,2014, on collective management of copyright and related rights and multi-territorial licensing of rights in musical works for online use in the internal market
	Codice dell'amministrazione digitale - CAD - Decreto Legislativo 7 marzo 2005, n. 82 e s.m.i.
Languages	
Native	Italian
English	Upper intermediate
French	Lower Intermediate
Academic experiences	
Management Science and Digital Marketing, from July 2015	Assistant supervisor of some Master's Theses at Economics Faculty of Sapienza University:
	Seminars:
	<ul> <li>June 2018: Chatbots &amp; Surroundings - New Frontiers of Artificial Intelligence</li> </ul>
	<ul> <li>November 2017: Big Data for Financial Market</li> </ul>
	<ul> <li>June 2017: Chatbots - New Frontiers of Artificial Intelligence</li> </ul>
	<ul> <li>November 2016: "Intellectual Property and Competitive Advantage</li> </ul>

Curriculum vitae of Roberto Patrizi

in the Digital Economy" on November 28th, 2017 (online at

## https://youtu.be/Qa-97kYuGQs and https://youtu.be/wMuEAH4CPC0).

Supervisor of theses on Master Degree in Companies' Management:

- New frontiers of chatbot: conversational commerce. Case study: dynamic computation of willingness-to-pay by deep learning algorithms
- Upcoming scenarios over B2B marketing enabled by Machine Learning
- AI and Big Data as undeniable tools for marketing innovation: the case of Visual Listening in order to detect visual mentions about grands over social media
- Social listening as new tool to support digital marketing innovation
- Payment Service Directive 2: upcoming scenarios in the digital payment service's market
- Innovative marketing solutions in order to encourage legal music consumption (partnership with Lenoir-Rhyne University, Hickory, NC, USA)
- Secondary Ticketing as secondary marketing or illegal market=
- The ChatBots and the new frontiers of Marketing
- The new supply chain in Industry 4.0. A fact-finding survey.
- Two-sided markets and Network effects: Marketing in the Platform Economy
- Big Data as Intellectual Property's enhancement tool
- Mobile vertical wallet: a tool for enhancing the show industry
- Big Data and Personal Data, new tools for supporting marketing strategies: the music market case study
- New payment tools Mobile Digital Wallet"

Study and research on: Digital Economy, Intellectual Property, Two-sided market business models, Digital Business Ecosystems.

Co-author of scientific articles on applied mathematics. During those activities I wrote many simulation's sofyware programmes by Mathematica of Wolfram Research:

 P. NATALINI - R. PATRIZI - P.E. RICCI: Eigenfunctions of a class of Fredholm-Stieltjes integral equations via the inverse iteration method, JOURNAL OF APPLIED FUNCTIONAL ANALYSIS, Volume 1,Number 1 January 2006, ISSN:1559-1948 (PRINT), 1559-1956 (ONLINE), online at

http://www.eudoxuspress.com/JAFA VOLUME 1-06.pdf

- P. NATALINI R. PATRIZI P.E. RICCI: The Dirichlet problem for the Laplace equation in a starlike domain of a Riemann surface, Numer. Algor., 49 (2008), 299{313, online at <u>http://dblp.uni-trier.de/pers/hd/p/Patrizi:Robert</u>
- PP. NATALINI R. PATRIZI P.E. RICCI: Heat problems for a starlike shaped plate, Applied Mathematics and Computation, 215 (2009),

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Mathematics, from 2001 until 2009 495{502, online at http://dblp.unitri er.de/pers/hd/p/Patrizi:Robert

- R. Patrìzì: Un modello econometrìco per la gestione dei ricavi dì un operatore telefonico mobile (AIRO News luglio 2005)
- R. Patrìzì: Un modello matematico per la definizione delle curve provvìgìonalì ottime per la remunerazìone dì agenzie dì vendita del settore petrolchimico (AGIP Petroli, 2003)

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