

Europass Curriculum Vitae



Personal information					
First name / Surname	Andrea Melloncelli				
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Skype	andreamelloncelli				
Nationality	Italian				
Date of birth	12/05/1983				
Gender	Male				
Summary of experiences					
	I work as a freelancer Data Scientist Consultant and Trainer.				
	I teach Statistics and how to use statistical software to solve business problems, my expertise range from calculus sheets (Excel and Google Sheets) to programming software as Python and R, depending on the type of problem to solve. I recently taught in Milano Bicocca and Milano Cattolica and I have experience of training on the job in several companies.				
	In 2019 I have co-founded VanLog, a team of data scientists with a strong focus: providing full stack data science solutions particularly suited for small and medium business. All the tools that are needed to understand and communicate data are part of our business, from statistical modeling to business intelligence techniques, ad-hoc programming, report automation, creation of interactive dashboards, integration via API.				
	As a qualified physicist with a passion for Data Analysis and new Information Technology, I have a deep and solid experience in R, Shiny programming and development along with extensive skills in unix system management, IT automation tools, cloud technologies, big-data platforms such as Hadoop and Spark.				
	Previously worked for Quantide SrI (since 2015) as an IT Management Consultant and "R" Trainer. Quantide specializes in IT services for statistical purposes. The company is a leading expert in "R".				

Work experience

The purpose of this short course is to provide students with key concepts of quark making them familiar with the main concepts and basic introduction to descriptive the difference between correlation and causation, and introducing probability and I Development of 8 video lessons for the pre-courses of Academic Year 2020 (held Output of the course was 8 video lessons, slides, final test with solutions, suggestered Uput of the course was 8 video lessons, slides, final test with solutions, suggestered Uput of the course was 8 video lessons, slides, final test with solutions, suggestered Uput of the course was 8 video lessons, slides, final test with solutions, suggestered Uput of the course was 8 video lessons, slides, final test with solutions, suggestered Uput of the course was 8 video lessons, including content planning, material preparation, written and or advanced topics to write algorithms and code in R in an effective way for Dat Tidyverse, functional programming, S3 object oriented programming, packages, proptimization. Collaborative Programming with Git and Github. Period Organization of eRum 2020 2019-2020 (preparation period) 2020 European R Users Meeting, on-site conference turned into a virtual event: a 2.000 attendees and ~150 speakers. See http://2020 enum.to/ Role Organizer, "R in Production" Track coordinator and Tech coordinator As an enthusiast of statistics and R technology, I have followed the international conference we founded the association Milan R. We almost completely organized appearance of the covid-19 a very short time before the event. This forced us to tu a success with 2000 attendees from all over the world and world-renowned speaker appearance of the covid-19 a very short time before the event. This forced us to tu a success with 2000 attendees from all over the world and	Lecturer of "Quantitative Methods" course for MIB - Master in International Business							
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data provided by API.	In this role I provide automated systems that access or store data, do some analysis with different pieces of software cooperating, and provide reports or dashboards. Examples are 2 projects. Scala API development for an Italian Banking institution .Scala Application provides real time manipulation and aggregation with great effectiveness and speed data provided by API.							

	And a second example for a US Financial company I provided a Full Stack Reporting syste I first developed some web reports, secondly I provided a customized web and R server which provides reports to authenticated clients. Finally I'm still developing other reports and updating them by continuous integration and delivery process.						
	Lecturer of Machine Learning & Big Data for Master in Data Science, Turin University						
Period	May 2019						
Role	Lecturer						
Main activities and responsibilities	Frontal lessons, including content planning and material preparation. The class was an introduction to big data and machine learning methods for big data, and to Big Data Software as well as R libraries aimed at this scope.						
	Full stack Data Scientist						
Period	June 2018 to 2019						
Role	Data Scientist and IT for data Science.						
Main activities and responsibilities	In this role I provide automated systems that access or store data, do some analysis with different software cooperating, and provide reports or dashboards. Examples are 2 projects for " Energy Team ". The first is an RMarkdown automatic HTML report sent by email. This markdown is a monthly report scheduled to be compiled automatically and sent every first of the month to a number of clients. It allows users to read data interactively (plotly and other js libraries) and extract some Excel summary from it. This has a very nice aesthetics and a thorough attention to details such as the unit of measures, scales and colour usage. The second is a R Report generator API integrated with a Java Web platform. The report allowed the interaction between engineers and Data Scientists through the Platform. Java was the interface and R with R Plumber the complete graphics and report generation engine. Data Scientist and Data Visualization Consultant. A Project example with Revelo DataLabs where I improved their dashboard with a better visualization and automated an analysis in the background of the Dashboard.						
D. A.I.	Information Technology and Services Consultant for Quantide S.r.I.						
Period Role	June 2015 to 2019 IT Management Consultant & R Trainer						
Main activities and responsibilities	In this role I have responsibility for the functionality of the production environment and of its recovery systems. I also provide installation and configuration of systems with R, Hadoop, Spark, Hive, and Sparklyr used on the Cloudera platform. IT systems are automated with configuration scripts: they automatically set up each server responding to its role in the infrastructure. I also code "R", Shiny and train data analysts how to code "R" efficiently. As a Shiny professional I completed assignments utilising "Shiny" for Global multinationals such as, Microsoft, UniCredit Bank , Lavazza Eli Lilly, Enel Energy , TetraPak, and Radici Group. My primary responsibility is an ongoing consultancy service for Altroconsumo, a major Consumer Service Group. This has been an ongoing service provided by Quantide, which started six years ago. I have been working on this assignment for three years with a time commitment of two/three days per week. Also, as the co-founder of R-Labs I spearheaded two projects , Comune di Milano, and Earth Cloud , wherein Shiny was used to provide valuable solutions in each case.						
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Period	June 2015 to 2019					
Role	Lecturer					
Main activities and responsibilities						
	 R for Data Science: first R session to data manipulation, visualization and discovery, from data import and export to data modelling and data mining: a wide overview of R as a data science tool. Data Visualization and Dashboard with R (I developed the material): data visualization techniques with R and how to export results through reports and dashboards. R with Database and Big Data (I developed the material): manipulating, analyzing, visualizing big data structures that exceed the single computer capacity in a true R style. Professional Programming with R: how to become a R developer with a deep knowledge of R and the modern techniques of programming. 					
	Lecturer of "Advanced Programming for Big Data" at MABDA (Master in Big Data Management) in LUISS University Rome					
Period	September 2016					
Role	Lecturer					
Main activities and responsibilities	I taught about how to analyze big data with Hadoop, Apache Spark and R.					
	Lecturer of "R for Large Computation" for Master Bocconi University Milan (Research Division)					
Period	2/3 November 2015					
Role	Lecturer					
Main activities and responsibilities	I taught a one day class for the introduction to linux working toolbox (Frontal lessons, including content planning and material preparation). Then I worked as professor assistant for the second day.					
	Information Technology and Services for ESIT S.r.I.					
Period	2006 to 2007					
Company	ESIT S.r.I					
Main activities	Hardware and software support services for several major companies including financial services organisations, Banking institutions, and industrial organisations.					
	Information Technology and Services for "Università degli studi di Milano".					
Period	2008 to 2009					
Company	"Università degli studi di Milano"					
Main activities	Multimedia calculus lab of "Università degli studi di Milano"					
	Master Degree in Physics Università degli Studi di Milano					

Graduation	2016					
Thesis title	"Universality and specificity in human communication dynamics. The case of reddit."					
	Bachelor Degree in Physics Università degli Studi di Milano					
Graduation	2011					
Thesis title	"Procedure di reweighting nella stima dell'incertezza dovuta alle distribuzioni partoniche del protone"					
Information Technology Skills						
R Programming	Professional and advanced programming with statistics, big-data (Hadoop-Spark) scope. Shiny interfaces and dashboards. Report automation . Integration of C/C++,Java, Scala with R. Training .					
Cluster Hadoop	Management of a Hadoop cluster with and without Cloudera. Configuration of Spark and R for Data analysis.					
Big Data analysis with Spark	Installation and configuration of Spark upon Hadoop with Sparklyr as R interface or Scala API.					
Server	Configuration of Linux R server (ssh, ftp, vnc, proxy, vpn, RStudio-server, RStudio-Shiny-Server-Professional). The server has statistical purposes and allows collaboration between several users using R and other statistical tools.					
Amazon Web Services	Creation, configuration, orchestration of group of virtual machines with AWS_CLI , Python Boto3, Vagrant. Solid experience with AWS Services: EC2, VPC, S3, Elastic Map Reduce, EBS, CodeCommit					
DevOps Skills	Infrastructure as code with Ansible, Puppet, Vagrant. Automation and orchestration with Puppet.					
Networks	Knowledge of principles of networking, firewalling. Hardware and software configuration of routers, switches and Wireless Access Points.					
Google Web Services	Apps-for-work and Google Cloud (especially BigQuery)					
Cluster Debian Linux	Management of 400 actual users, 50 client terminals, 1 proxy (firewall, and server html), 1 NIS server with raid software and log and backup server.					
C and C++ Programming	Especially in scientific area: simulations or complex calculation. I provide also C/C++ integration with R.					
Other programming languages	Scala, Python primarily. And others like Haskell, Mathematica, Fortran, Maxima, Gnuplot, GraphViz (dot language)					
Programming tools	Git, Github, Travis, Svn, Emacs, Vim					
Scripting	Bash and Zsh (Advanced Scripting and scheduling)					
Projects						
•	Organizing the European R User Meeting 2020 in Milan					
	I am in the organization committee of the eRum2020 a 3 day international R conference with about 500 participants and ~100 contributors. See http://2020.erum.io/ I participate in the Admin group (As a member of the MilanoR Association) and I am the responsible of the R-in-production Track of the program.					
	R-Lab Milano					
	The R-Labs are monthly group meetings where users meet to collaborate on the resolution of a given problem related to data science, which would have occurred in our territory and proposed by a company or university or organization. The goal of each meeting is to develop a feasible solution for the problem, and publish the developed code through Github.					
	The goal of the R-lab consists of three components:					
	To strengthen the R community by facilitating the interaction and the exchange of knowledge between users. To pursue the broadening of knowledge of our users, offering real problems stemming from a wide range of fields and experiences.					
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	To push the open-source and R culture in our area, showing how R, open source and the community are useful resources for solving problems. We want to emphasize the concept that through collaborative processes it is possible to discover more solutions and quicker.							
Achievements	 Spearheaded two projects with R Labs using Shiny to achieve the following: 1. Comune di Milano: Provided a solution to facilitate a method for distributing financial information to the public. 2. Earth Cloud: Provided a solution to analyse Seismic activity and to create an early morning Earthquake Alarm System. 							
Personal Interests and Activities	Karate							
Personal skills and competences Mother tongue(s)	discipline at even classes and at Vice-president o	ears of practice of tradition ning primary schools. Active p f Bu Do Kan Karate in Sa pordinates several sport	articipation in the commarate and Vice-Pl	organizing of the spo resident of Asso-Spo	rt's association. I ha	ave been		
Other language(s) Self-assessment								
Understanding European level		Understanding		Speaking		Writing		
		Listening	Reading	Spoken interaction	Spoken production			
	English	B2: Independent user	B2: Independent user	B2: Independent user	B2: Independent user	B2: Independent user		
	French	B1: Independent user	B1: Independent user	B1: Independent user	B1: Independent user	B1: Independent user		

(*) Common European Framework of Reference for Languages