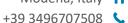


Married & three kids



Modena, Italy 🏫



alessio.passalacqua@gmail.com <a>

www.linkedin.com/in/alessiopassalacqua in

https://github.com/alessiopassalacqua

ALESSIO PASSALACQUA Data Scientist

Framework

Five years of experience on R programming and I'm daily using the following set of tools:



 R & RStudio Caret & H2O

Ggplot2 & plotly

Shiny & rmarkdown

Programming & IDE Machine Learning

Interactive visualization

Dashboard & Reporting

Demo dashboards are available at: https://alessiopassalacqua.github.io/passalacqua/apps.html

Experience

2016 - NOW

R Trainer / R data training, Modena

I'm teaching R language at corporate training course and I'm tutor of students who want to become data scientist. These are the main courses that I've taught:

Duration Courses Main Topic 32 h Clustering, Classification, Anomaly detection, Association Rules Data Mining with R Regression, Dimension Reduction Applied Statistics with R 8 h **Data Driven Strategies** Introduction to Data Science

More information is available at the following link: https://alessiopassalacqua.github.io/r-data-training/

2015 - 2018

Data Scientist Freelance / Produzione Perfetta, Modena

My main duties are solving problem related to manufacturing process applying data-driven strategies. The predictive models are integrated into dynamic reports (R /rmarkdown) or interactive dashboards (R/shiny) in order to help non-technical audiences to get insight of the own business.

Data science projects Duration **Problems** 6 Months Anomaly detection Reducing waste 4 Months Quality forecasting Process optimization 2 Months Energy Forecasting Energy saving

More information is available at the following link: http://www.produzioneperfetta.it/

Math & Science Teacher (Part-time) / Secondary School, Modena

2009 - 2015

Post-Doc Researcher / University of Modena and Reggio Emilia / University of Missouri (US) * 1 year

Experience in different research topics related to experimental and computational science.

Computational Science	Project Duration	Topic
 Data Analysis 	24 Months	Process optimization
 Molecular Dynamics 	24 Months	Hydrophobic properties of coatings
Fluid Dynamics	12 Months	Tribological properties of lubricating oils
Classical Dynamics	12 Months	Classical Trajectory in fitted energy surface
List of publication are available at: https://alessionassalacqua.github.io/passalacqua/publication.html		

Education

2004-2007

Phd in Chemical Science/ University of Modena and Reggio Emilia

My Phd thesis was mainly focused on computational & quantum chemistry and chemical physics

1997-2002

Degree in Chemistry / University of Modena and Reggio Emilia

My studies were mainly focused on chemical-physics, theoretical & quantum chemistry

Course & Certification

- DAT213x: Analyzing Big Data with Microsoft R Server (edx Microsoft)
- QlikView Developer from Scratch (Udemy)
- DAT203x: Data Science and Machine Learning Essentials (edx Microsoft)
- edX 1.2: Introduction to R (DataCamp)
- Tools and Techniques for massive data analysis (Cineca Bologna)

During these courses and my personal studies, I learned the basic idea and concept of the following languages: Python, SQL and Spark.

About me

I do my best when I'm working an interdisciplinary group and in tasks that requires the solution of real problems. I am a person who takes great advantage of intuition, I'm multipotential and I learns more easily by doing.