

# Alberto Remoto

remoto.alberto@gmail.com

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## EXECUTIVE SUMMARY

I am a Ph.D. in physics with 10 years of successful accomplishment in both academic research and digital consulting services. I have strong analytical skills and extensive experience handling, analysing and interpreting large datasets as well as leveraging a problem solving mindset to develop innovative solutions. Working environment, communication and interpersonal relationships are essential for me as I believe these are among the most important aspects for personal and professional success. I embrace teamwork, but as a self-motivated person I am also capable of performing autonomously.

Combining the right amount of strategic thinking, planning capabilities, creativity and attention to details I am used to delivering result oriented solutions, focused on customer needs.

## PROFESSIONAL OBJECTIVE

I am currently looking for a position which allows me to continue exploiting my technical and soft skills, drive innovation and work on challenging, stimulating and diverse projects with clear objectives and tangible results. A position with a possibility to manage a small team, taking direct responsibilities for setting goals, providing guidance, supervising work and eventually identifying alternative solutions to deliver results, while continuing growing in my career.

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## TECHNICAL SKILLS

- Manage large dataset with a variety of solutions for data acquisition, modeling and organization.
- Analyse and interpret datasets with a variety of machine learning and statistical techniques.
- Create captivating dashboards and data driven insights for different audiences.
- Solid background in a few programming languages, data management and DevOps tools.
- Problem solving attitude, quick learning capabilities, agile and result oriented mindset.

## TECHNOLOGY STACK

**Data science:** Python & R data science, machine learning and visualization stacks. Data visualization with Tableau. Deep Learning and Natural Language Processing with Tensorflow.

**Cloud technologies:** Familiar with GCP, AWS and Heroku solutions. Docker.

**Database technologies:** MySQL, MariaDB, Microsoft SQL Server, SQLite, MongoDB.

**Web development:** Front-End & Back-End, HTML, CSS, Bootstrap-4, JavaScript, Flask, Node JS.

## SOFT SKILLS

**Operational:** Organisation & planning, initiative, priority setting, analytical skills, communication, problem solving, time management, action oriented, customer focus.

**Cognitive:** Creativity, learning skills, detail oriented, result oriented, solution oriented, strategic thinking, synthetic, global view, curiosity, lateral thinking.

**Management:** Decision making, delegation, sharing knowledge, accepting & delivering feedback.

## CAREER SUMMARY

### Data scientist, Freelance

Geneva, Sept. 2019 – Today

Focus on continuous learning and personal projects. Approach challenges leveraging new technologies.

Project: Non Performing Loans in the banking industry

*Challenges:* Identify early symptoms of clients susceptible to non-performing loans.

*Results:* Provide a Machine Learning tool to reduce financial exposure to non-performing loans.

Project: Predict Bike Power in the sport industry

*Challenges:* Estimate bike ride power exploiting physical, biological and environmental information.

*Results:* Develop a Machine Learning tool to predict power output with an accuracy of about 25%.

Project: COVID-19 monitoring

*Challenges:* Make clarity over confusing and sometimes misleading information circulating online.

*Results:* Develop an interactive and automated tool to monitor the evolution of the COVID-19 pandemic.

### Data scientist, Lightbox technologies

Geneva, Jan. 2018 – Sept. 2019

I helped clients to increase efficiency and reduce operational costs leveraging a wide array of digital tools, data analytics, machine learning and process automation. Clients represented some of the top class companies in the retail, automotive, banking, government, engineering, and packaging sectors.

Project: Credit risk in the automotive banking industry – Project Lead

*Challenges:* Database consolidation, data cleansing and features engineering. Automate credit decision of lease application. Explain methodology to non expert clients and to senior management.

*Results:* Automate the processing of about 70% of the lease application. Remove human bias in the credit decision process. On-premises software interfacing with client's infrastructure.

Project: Truck & Bus sales analytics – Responsible for data management and analytics

*Challenges:* Track vehicles through heterogeneous data warehouses. Data enrichment with third party dataset. Define KPIs to monitor sales across relevant dimensions, automate reporting to business.

*Results:* Increase granularity of the market segmentation. Identification of additional insights on the market status. Semi-automated weekly and monthly reports of sales and market status.

Project: Analytics for regional electoral campaign – Project Lead

*Challenges:* Infer groups behaviour from aggregated electoral data and demographic data. Electoral segmentation through bayesian ecological inference and cluster analysis.

*Results:* Interactive analytics summarizing historical and current electoral segmentation. Comprehensive written report summarizing findings and micro-targeting insights.

### Senior fix term researcher, CERN

Geneva, Mar. 2016 – Dec. 2017

I have been part of an international effort for the development of new cutting edge technology to enhance resolution in the identification of particle interactions. Main duties involved data analysis, colleagues supervision and team management for both analysis development and R&D activities.

Project: Data management infrastructure – Project Lead

*Challenges:* Operate hardware infrastructure for data acquisition. Retrieve raw data from heterogeneous hardware and merge into a single data model. Guarantee data consistency during detector operation.

*Results:* Develop an ETL system to manage 1-2 TB/day of data in real time. Online monitoring tool to verify data quality and consistency. Produce high quality and validated data for scientific research.

Project: Resource coordinator – Detector operation manager

*Challenges:* Coordinate multiple working groups to share detector time efficiently. Define operation priority according to the collaboration roadmap. Perform QA/QC on heterogeneous components to validate the detector design. Evaluate detector performance with respect to pre-defined benchmark.

*Results:* Technology approved for future scientific experiments. Results published in scientific reviews.

Project: Measurement of physics parameters – Project coordinator and main analyst

*Challenges:* Data driven validation of the technology using standard candle measurements. Improve the knowledge on known parameters with new and more accurate measurements.

*Results:* Technology validated for production on a large scale. Results published in scientific reviews. Unexpected physics process identified and being currently studied for a dedicated publication.

### **Junior fix term researcher, CNRS**

Annecy, Mar. 2013 - Mar. 2016

Perform high precision measurements with multivariate analysis. Coordinate a successful R&D project over 3 years. Successful supervision of a Ph.D. student. Multiple results published in scientific reviews.

## **EDUCATION**

2009 - 2012, Ph.D. in Particle Physics, Université de Nantes.

2006 - 2009, M.Sc. in Particle Physics, Università degli Studi di Torino. Grade 110/110.

2003 - 2006, B.Sc. in Physics, Università degli Studi di Torino. Grade 105/110.

## **CONTINUOUS LEARNING AND CERTIFICATES**

- July 2020, Basic and advanced web developer bootcamps, Udemy: Front-End & Back-End.
- May 2020, Deep learning specialization, Coursera: from foundations to industry applications.
- April 2020, Data Engineering, Big Data and Machine Learning on GCP, Google.
- February 2020, Tableau 10 Basic & Advanced Training, Udemy.
- January 2020, Natural Language Processing, Coursera: traditional and deep learning techniques.
- November 2019, Data Analytics Fundamentals, Amazon: plan data solutions with AWS services.
- October 2019, AI for everyone, Coursera: workflow of Data Science projects, AI terminology.

## **LANGUAGE SPOKEN**

Italian: Native — French: Excellent — English: Excellent — Spanish: Good

## **HOBBIES**

Active in the local triathlon community, endurance sports, outdoor activities, traveling, cooking.