Python · Machine Learning · Statis · St Albans - Al 1 4DL - U.K

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"More than 15 years playing with data."

Experience ____

Data Scientist London - U.K.

GENOMICS ENGLAND LTD. - BIOINFORMATICS DEPARTMENT

2015 - present

- Modeling clinical and genomic data: 100K individuals, millions of variables (genetic variants).

Chief Data ScientistValencia - SpainGENOMETRA S.L.2010 - 2015

• I co-founded the company and supervised a team of 4. We developed machine learning software for diagnosis.

· Data visualization, automatic report writing, data scraping from SQL, MongoDB, Spark, web services and web pages.

Developed several R & Python packages, web tools and distributed pipelines. Statistical consultancy.

Par Time Lecturer

University of Valencia - Mathematics and Computer Science Departments

2009 - 2015

· Teaching databases, R, Python and Bash programming, statistics and probability to undergrad and MSc students.

Head of the Biostatistics Unit

Valencia - Spain

PRINCIPE FELIPE RESEARCH CENTER (CIPF) - COMPUTATIONAL GENOMICS DEPARTMENT

2005 - 2010

• Written +50 scientific publications. Presented and organized +30 congresses and workshops. Supervised staff and students.

Epidemiologist Bristol - U.K.

University of Bristol - Social Medicine School

2002 - 2004

· Preprocessing and statistical analysis of large cohort studies. Survival analysis, class prediction and hypothesis testing.

Education

PhD in Bioinformatics and Functional Genomics

Valencia - Spair

Universitat de Valencia - Biotechnology

2009 - 2013

• Multidimensional Logistic Regression and other Machine Learning methods for the analysis complex biological data.

MSc in Probability & Statistics

Madrid - Spain

Universidad Complutense de Madrid - Mathematics Department

2002 - 2004

• Missing data imputation. EM algorithms and other resampling techniques for incomplete data analysis.

MSc in Statistics with Applications in Medicine

Southampton - U.K.

University of Southampton - Statistics Department

2001 - 2002

• Experimental design, stratification, sample size calculation, demographic analysis, clinical trials, spatial analysis.

Degree in Mathematics

Madrid - Spain

Universidad Complutense de Madrid

1995 - 2001

• Statistics and Operations Research specialty.

Skills.

 $\textbf{Programming} \quad \hbox{R (dplyr, data.table, ggplot2, shiny, caret), Python (numpy, scipy, pandas), Bash, AWK, SQL, MongoDB, Spark, Neo4j. \\$

Statistics Data processing. Data modeling. Machine learning. Clustering. Network analysis, Plots and data visualization.

Languages Spanish, English & French.