David **Montaner**

Data Scientist · Expert R programmer

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"More than 15 years playing with data."

Experience

Data Scientist
London - U.K.

GENOMICS ENGLAND LTD. - 100,000 GENOMES PROJECT - BIOINFORMATICS DEPARTMENT
2015 - present

- Modeling clinical and genomic data: 100K participants, millions of variables (genetic variants and annotation).
- Data visualization, automatic report writing, data scraping from SQL, MongoDB, web services, HTML, XML, JSON.

Head of the Biostatistics Unit
Valencia - Spain

PRINCIPE FELIPE RESEARCH CENTER (CIPF) - COMPUTATIONAL GENOMICS DEPARTMENT
2005 - 2015

- Developed several R & Bioconductor packages, web tools and distributed pipelines. Statistical consultancy.
- Written +50 scientific publications. Presented and organized +30 congresses and workshops. Supervised staff and students.

Chief Scientist
Valencia - Spain

GENOMETRA S.L. - CIPF SPIN-OFF COMPANY
2010 - 2015

- I co-founded the company. We provided analysis services and customized software for diagnosis. Supervised a team of 4.

Associate Lecturer
Valencia - Spain

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.

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 - Spain

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

Programming	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.