David **Montaner**

R · Python · Machine Learning · Statistics

St Albans - AL1 4DL - U.K.

0775 497 22 35 | david.montaner@gmail.com | www.dmontaner.com | dmontaner | dmontaner

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

Chief Data Scientist
Valencia - Spain

Genometra S.L.
2010 - 2015

- I co-founded the company and supervised a team of 4. We developed machine learning software for diagnosis.
- Developed several R & Python packages, web tools and distributed pipelines. Statistical consultancy.

Par Time 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.

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 - 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.

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