

# David Montaner

MORE THAN 20 YEARS PLAYING WITH DATA

St Albans - AL1 - U.K.

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## Experience

### Chief Data Scientist

London - U.K.

INSIG AI PLC

2018 - present

- Organize the Data Analytics / Data Science team and coordinate with the Operations and Data Acquisition departments.
- Machine Learning applied to Investment Portfolio Management. Natural Language Processing of financial news.
- Statistical consultancy. Devise and supervise data analysis and research as service for our customers.
- Create automated Data Pipelines, from data ETL and summarization to final report generation.

### Senior Data Scientist

London - U.K.

BARCLAYS - ADVANCED DATA SOLUTIONS TEAM

2017 - 2018

- Supervising a team of 3. I implement machine learning pipelines for risk evaluation on millions of clients.
- Building up recommend systems and customer segmentation analysis, enhancing data business value for marketing.

### Data Scientist

London - U.K.

GENOMICS ENGLAND LTD. - BIOINFORMATICS DEPARTMENT

2015 - 2017

- 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.

### Founder and Head of Data Science

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

### Part 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

Python (numpy, pandas, sklearn, NLTK, spaCy, PyTorch, JAX, matplotlib, dash, flask, boto3), R (dplyr, ggplot2, shiny), SQL (PostgreSQL, Teradata), NoSQL (MongoDB, DynamoDB, Elasticsearch), HDFS, Spark, Impala, Linux, Bash, Git.

#### Cloud computing

AWS (S3, Lambda, API Gateway, RDS, DynamoDB, CloudWatch), boto3, Mongo Atlas.

#### Statistics

Data processing. Predictive analytics. Machine learning. Clustering. Network analysis, Plots and data visualization.