

# David Montaner

MORE THAN 20 YEARS PLAYING WITH DATA

St Albans - AL3 - U.K.

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## Recent Experience

### Consultant / Data Scientist

London - U.K.

PUBLICIS SAPIENT - CONSULTING FOR DEUTSCHE BANK

2023 - Present

- Using Large Language Models, vector embeddings and Agents to extract and interpret financial entities from text and news.
- Deploying production systems on the Google Cloud Platform (GCP): BIGQUERY, Vertex AI, Cloud Functions Looker.

### Chief Data Scientist

London - U.K.

INSIG AI PLC

2018 - 2023

- 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 and ESG scores.

### 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 research.
- 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.

## 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 Statistics with Applications in Medicine (Erasmus student)

Southampton - U.K.

UNIVERSITY OF SOUTHAMPTON - STATISTICS DEPARTMENT / UNIVERSIDAD COMPLUTENSE DE MADRID

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

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|-----------------------|--|
| <b>Software</b>       | Python, R, Bash, Linux, Git, GitHub, Docker, Terraform, Pytest, Tox, Jenkins, Jupyter Notebooks, Emacs-Lisp, Haskell,              |
| <b>Data</b>           | Vector Databases (Pinecone, ChromaDB, Google's Vector Search) SQL (BIGQUERY, PostgreSQL), NoSQL(MongoDB, DynamoDB, Elasticsearch), |
| <b>Stats &amp; ML</b> | Numpy, Pandas, SciPy, SciKit Learn, PyTorch, Pyspark, Dask,  |
| <b>Visuals</b>        | Matplotlib, Seaborn, Plotly, Pyvis, Cytoscape, R ggplot2, Looker,  |
| <b>NLP and LLMs</b>   | LangChain, OpenAI API, Google PaLM 2, Transformers-HuggingFace, SentenceTransformers, Spacy, NLTL,                                 |
| <b>Cloud</b>          | GCP (BigQuery, Vertex Ai, cloud functions), AWS (S3, Lambda, SageMaker, CloudFormation), boto3, Mongo Atlas,                       |
| <b>Web</b>            | Plotly Dash, Flask, Flask-RESTX, FastAPI, Django, Swagger, R Shiny, Unicorn, NGINX, Beautiful Soup, Selenium,                      |