Sergio **Olmos**

Statistician · Data Scientist

Barcelona, Spain

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Skills

Programming	R, Python, SQL
Packages	tidyverse, mgcv, lme4, nlme, survival, caret, rstan, numpy, pandas, matplotlib
Methods	Regression, bayesian inference, causal inference, random forests, deep learning, PCA
Tools	Git, Github, Shiny, UNIX shell, LaTeX, Rmarkdown
Languages	Spanish (native), English (fluent)

Experience

Statistician   *Barcelona, Spain*
ISGLOBAL   *May. 2020 - PRESENT*

- Implementing causal statistical models for the relationship between the multiple and correlated urban environment factors and health.
- Implementing a multilevel proportional hazards survival model for assessing the effect of air pollution on the incidence of ischemic stroke.

Data Science Consultant   *Berlin, Germany*
ALBA BERLIN   *Dec. 2019 - PRESENT*

- Analyzing player tracking data using principal component analysis and regression models to understand the relationship between training intensity and specific covariates.
- Building an automated report generating system using Rmarkdown and Shiny to monitor training load throughout the season.

Research Analyst   *Santiago de Compostela, Spain*
BIOSTATECH   *Oct. 2017 - Jun. 2019*

- Implemented a generalized additive model in a study assessing the spatial distribution of mussel seeds using splines for non-linear relationships, Markov random fields for spatial effects and a zero-inflated negative binomial distribution for rare events.
- Implemented a random forests model for predicting forest biomass from LIDAR aerial data using the caret R package.

Professional Basketball Player   *Spain*
ACB/LEB ORO   *Aug. 2009 - May. 2020*

- Played 10+ years in Spain's first (ACB) and second (Leb Oro) professional basketball leagues.

Projects

R developer
BASKETBALL ANALYTICS   *2019*

- Created two open-source R packages, eurolig and rfeb, for scraping and analyzing basketball generated data for the Euroleague and the Spanish Basketball Federation professional leagues.
- Built several tools to visualize basketball data such as shot location charts and lineup rotation heatmaps using ggplot2.
- Using Git and Github for version control throughout the whole development process.

Education

M.Sc. in Bioinformatics & Biostatistics   *Barcelona, Spain*
UNIVERSITAT DE BARCELONA/UOC   *Sep. 2016 - Jun. 2018*

- Thesis: Analysis of clustered data using linear mixed models.
- Earned the award for best academic record of my graduating class.

B.Sc. in Economics & Mathematical Sciences   *Milton Keynes, UK*
THE OPEN UNIVERSITY   *Oct. 2012 - Jun. 2016*

B.A. in Mathematics   *Philadelphia, USA*
TEMPLE UNIVERSITY   *Jan. 2005 - May. 2009*