Sergio **Olmos**

Statistician

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Education

M.Sc. in Bioinformatics & Biostatistics

Barcelona, Spain

Universitat de Barcelona/UOC

Sept. 2016 - Jun. 2018

- Coursework: Experimental Design, Regression, Survival Analysis, Longitudinal Data Analysis, Analysis of Omics Data, Multivariate Analysis, Machine Learning
- Thesis: Analysis of clustered data using linear mixed models

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

Experience

Biostatech

Santiago de Compostela, Spain

Research collaborator

Aug. 2017 - PRESENT

- Implementing the statistical methods in R of a study assessing the spatial distribution of mussel seeds. These methods include generalized additive models, p-splines for non-linear relationships, markov-random fields for spatial effects and zero-inflated negative binomial distributions for rare events
- Implemented statistical models for aerial LIDAR data in R in order to predict forest biomass. These methods included linear regression, principal component regression, partial least squares, ridge regression and LASSO

Biostatech

Santiago de Compostela, Spain

Statistical consultant intern

Jun. 2017 - Aug. 2017

- Used linear mixed models for repeated measures data in a pharmacovigilance study
- Researched and used relevant R packages to solve clients' needs
- Wrote statistical analysis reports in Rmarkdown and LaTex for clients
- Visualization of spatial data in R

Other

Spain

Professional basketbal player

Sep. 2009 - PRESENT

- Played proffesional basketball for several teams in Spain's first and second division

Skills

Regression	Generalized linear regression, regularization techinques, generalized additive models, bayesian hierarchical models, spacio-temporal models
Machine Learning	Support vector machines, neural networks, k-nearest neighbours, decision trees and random forests
Unsupervised Learning	Principal component analysis, hierarchical clustering and correspondance analysis
R	Data wrangling, exploration and visualization with base, dplyr and ggplot2; statistical modeling with stats, lme4, nlme, mgcv, and brms; machine learining with caret, website deployment with blogdown
Tools	UNIX Terminal, Version Control with Git and Github
Languages	English (fluent), Spanish (native)