

Adolfo Álvarez

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Experience

- 2020–Present **Senior data scientist**, OLX GROUP, EU MOTORS, Poznań, Poland.
As part of the strategic analytics and experimentation team, we focus our efforts in solving problems using a data driven approach in contact with other stakeholders of the company such as Research, Marketing, or Management teams.
- 2018–Present **Adjunct researcher/ lecturer**, COLLEGIUM DA VINCI, Poznań, Poland.
Currently teaching Data analysis, and previously also Statistics, Probability, and Discrete Mathematics for students of the IT faculty.
- 2013–2020 **Data science team leader / Expert data scientist**, ANALYX, Poznań, Poland.
My team and I participated in several projects including sales prediction, media mix modelling, classification, text mining, network analysis, among others. My role was also connecting the data science team with project managers, management team, and clients. We implemented for our clients from different industries the full data science cycle: Data preparation, modelling, presentation of results, and deployment on production. I was also responsible for the training of new analysts.
- 2008–2012 **FPI Researcher, Teacher Assistant**, CARLOS III UNIVERSITY OF MADRID, STATISTICS DEPARTMENT, Getafe, Spain.
As FPI researcher my main responsibility was to develop original research framed in the "Statistical methods in knowledge-based decision" project of the National R + D plan of the Government of Spain. The results of this research included a doctoral thesis, publications and participation in conferences of the area. Also, this position involved teaching assistance hours in Statistics and Data Science topics.
- 2010–2012 **Founder partner**, ZETESIS DATA MINING CHILE, Santiago, Chile.
Zetesis Data Mining Chile was a consulting firm specialized in smart data analysis to help organizations to extract valuable information from data.

Education

- 2014 **PhD in Business Administration and Quantitative Methods**, CARLOS III UNIVERSITY OF MADRID, Getafe, Spain.
- 2008 **Master in Business Administration and Quantitative Methods**, CARLOS III UNIVERSITY OF MADRID, Getafe, Spain.
- 2006 **Master of Science in Engineering**, UNIVERSITY OF SANTIAGO, Santiago, Chile.
- 2004 **Degree in Industrial Engineering**, UNIVERSITY OF SANTIAGO, Santiago, Chile.

Data Science Skills

- General Advanced experience in research, teaching, consulting and development using the R statistical language.

Data input	Reading and connecting different data sources such as csv files, excel, SQL data bases, Redshift, Spark, webscrapping, among others.
Data preparation	Cleaning, transformation, and aggregation of data, including the tidyr, dplyr, and related packages.
Data modelling	Estimation of diferent statistical and machine learning models such as linear models, generalized linear models, elastic net regression, random forests, xgboost, neural networks, among others.
Visualization	Creating static and interactive visualization with packages such as ggplot2 and plotly.
Reporting	Creating static and interative automatic reports including html, pdf, and word documents and html, pdf, and powerpoint slides using rmarkdown and xaringan. Creating web applications using shiny.
Development	Development of internal and public R packages and documentation, including ForceAtlas2, and resolution for Network Analysis

Selected Publications

- with Niedbała, G. et al, 2019 "Multicriteria Prediction and Simulation of Winter Wheat Yield Using Extended Qualitative and Quantitative Data Based on Artificial Neural Networks" Applied Sciences, 9(14), 2773
- 2014 "Recombining observations in cluster analysis: the SAGRA method" PhD dissertation, Universidad Carlos III de Madrid.
- with Vásquez et al, 2014 "Towards the estimation of demand for recycling in Chile: The case of Santiago," Resources, Conservation and Recycling, 82, pp. 94-102.
- with Peña, D., 2014 "Recombining partitions from multivariate data: a clustering method based on Bayes factors," Working paper Universidad Carlos III de Madrid, Statistics and Econometrics Series 14-08, pp. 1-35.

Last Workshops, contributed, and invited talks

Workshops and tutorials

- 2019 "Tips, tricks, and some packages for efficient R programming" (2.5 hours). XI Jornadas de Usuarios de R, Madrid, Spain
- 2019 "Efficient R programming" (6 hours internal tutorial). Analyx, Poznan, Poland

Invited talks

- 2019 "Efficient R programming: tips, tricks, and some interesting packages". PAZUR 32, Poznan, Poland
- 2019 "Beyond data analysis: the other uses of R in academia". Poznan University of Life Sciences, Poznan, Poland

Contributed talks

- 2019 with Szczepanska-Alvarez, A and Zawieja, B. "MLE of separable covariance matrix structure-simulation study'. Multivariate and Mixed Linear Models, Bedlewo, Poland.

Additional information

General information

Nationality Chilean.
Work permit Polish (Permanent residence card)
Date of birth September 16th, 1980.

Computer skills: Other software

General Former experience in research and teaching using Octave/Matlab, SPSS, Stata, E-views, Gretl, Statgraphics, L^AT_EX, OpenOffice, among others under Linux and Microsoft Windows operating systems.

Other relevant courses

2019 Leadership and recruiting training, Annett Burger Consulting
2018 idash, Shiny - web apps in R.
2013 Hopkins University – Coursera, Computing for Data Analysis.
2011 Polytechnic University of Madrid, Advanced Statistics and Data Mining Summer School.
2010 BBVA foundation workshop, Statistical Learning, by prof T. Hastie

Languages

Spanish **Mother tongue.**
English **Full professional proficiency.**
Polish **Basic, currently learning.**