David Charte

Computer scientist and mathematician

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Education

2017 **M.Sc. in Data Science and Computer Engineering**, *Universidad de Granada*, Granada.
Emphasis in data science

2012 – 2017 **B.Sc. in Computer Science**, *Universidad de Granada*, Granada, *9.40/10*.

2012 – 2017 **B.Sc. in Mathematics**, *Universidad de Granada*, Granada, *9.04/10*.

2017 **International Summer School on Deep Learning**, *Universidad de Deusto and Rovira i Virgili University*.

2014 **A practical approach to Data Science and Big Data**, *UNIA*.

2013 **New Trends on Computer Engineering**, *Centro Mediterráneo (UGR)*.

2007 – 2012 **Project for detection and stimulus of mathematical talent (ESTALMAT)**, *Sociedad Andaluza de Educación Matemática Thales*, Granada.

Languages

Spanish	Native	
English	C1 level	*Cambridge CAE grade A: C1 level with C2 abilities*
Francés	B2 level	*DELF B2 certificate*

Skills

Development

Languages	Ruby, C++, R, Python, Java, C, Shell	**Web**	HTML, JavaScript, CSS, Responsive web design, Jekyll, Rails
Tools	Emacs, Git, GitHub	**Data Science**	MXNet, Keras

Systems Administration

Systems	Linux (Arch, Ubuntu), UNIX	**Web**	NGINX, Apache

Utilities

Documents	LaTeX, LibreOffice	**Graphics**	Inkscape, Krita

Experience

2016 **Researcher**, *Universidad de Granada*.
Reasearch grant. Topic: *Interpretative analysis of unsupervised deep learning techniques and extraction of multi-view models for supervised learning*

Journal Publications

2015 Francisco Charte and David Charte. "Working with multilabel datasets in R: the mldr package". In: *The R Journal* 7 (2), pp. 149–162.

Conference Publications

2016 Francisco Charte, David Charte, Antonio Rivera, María José del Jesus, and Francisco Herrera. "R ultimate multilabel dataset repository". In: *International Conference on Hybrid Artificial Intelligence Systems*. Springer, pp. 487–499.

2015 David Charte and Francisco Charte. "mldr: Paquete R para Exploración de Datos Multi-etiqueta". In: *Conferencia de la Asociación Española para la Inteligencia Artificial*. AEPIA, pp. 695–704.

Bachelor's Thesis

Title — *Reducción de la dimensionalidad en problemas de clasificación con Deep Learning*

Supervisor — Francisco Herrera Triguero

Description — Theoretical analysis of techniques based on deep neural networks that tackle the dimensionality reduction problem. Software for usage of these models and visualization generation.

Grade — 10/10 (Distinction)

Interests and communities

Interests — Data science, free culture, (human and machine) languages, divulgation

2014 **LibreIM**, *Student community dedicated to Mathematics and Computer Science*, Co-founder.

2016
2017 **Interferencias**, *Non-profit group interested in online rights and security*, Participant.

Projects

2016 **Ruta**, *Software for unsupervised deep architectures*.
Source code: https://github.com/fdavidcl/ruta
An R package for training unsupervised Deep Learning models.

2017 **Cometa**, *The comprehensive multi-label data archive*.
Source code: https://github.com/fdavidcl/cometa
An automatized web repository to prepare and host multi-label datasets.

2014 **mldr**, *R package for analyzing and manipulating multilabel datasets*.
Source code: https://github.com/fcharte/mldr
An R library for exploratory data analysis of multi-label datasets.

2014 **Veaml**, *A markup language for video editing*.
Source code: https://github.com/fdavidcl/veaml
A markup language and parser for video editing tasks, in C++.