



# Juan Morales

*Data Scientist*

*Researcher in Visual Analytics and Human-Computer Interaction. Programming lover. Avid learner.*

## Personal Information

Name: Juan Morales del Olmo  
Birth Date: July 18<sup>th</sup>, 1985  
Homepage: <http://bit.ly/juanmorales>

## Education

2009–2013 **PhD on Advanced Computing for Science and Engineering**, *Universidad Politécnica de Madrid (UPM)*, Madrid, *Graduated with honor, Cum laude.*  
2008–2009 **Artificial Intelligence MSc**, *Universidad Politécnica de Madrid (UPM)*, Madrid, *pending Final Project.*  
2003–2008 **Computer Science**, *Universidad Politécnica de Madrid (UPM)*, Madrid, *Grade. 90th percentile by marks*

## Research Experience

2013–Present **Postdoc Researcher**, *UPM*, Madrid.  
Developing interactive tools that help neuroscientist make sense of their data. Designing the architecture of the Visualization Framework to be used in the [Human Brain Project](#), in collaboration with 3 international teams.  
May–Nov 12 **Visitor Researcher at HCIL**, *UMD*, Maryland.  
Under the advise of Ben Shneiderman and Catherine Plaisant. Involved in [EventFlow](#) project, a tool for the analysis of millions of event sequences.

## Publications

9 Published Most of them in JCR Q1 Journals like Neuroinformatics, Journal of Neuroscience or papers Frontiers in Neuroanatomy. H-Index 3. [Google Scholar](#)

## Conferences

6 Internat. Most of them are top congresses like IEEE VIS, ACM CHI or ECML PKDD. Lecturing conferences in three of them.

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## Computer skills

Python	Pandas, Numpy, Scipy, Matplotlib, VTK, ITK, Qt, Django, Flask, ZMQ, Gevent, Celery	JavaScript	D3, Lodash, React, Angular, Backbone, jQuery, jQuery UI
R	Shiny, ggplot2, Statspat	C++	Qt, VTK, ITK, STD, ZMQ
Sys Admin	Linux, Docker, Nginx, Apache	Development tools	Emacs, Eclipse, Qt Creator, R Studio, Git, SVN, CMake
Database	SQL, MongoDB	Reporting	L <sup>A</sup> T <sub>E</sub> X, Sweave

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## Languages

Spanish **First Language**

English **Full professional**

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## Academic Experience

- 2014, 2015 **Data Visualization**, *University Master in Graphical Computation and Simulation*, U-tad, Madrid.  
Course of 30 hours designed and imparted
- 2015 **User Interfaces**, *University Master in Graphical Computation and Simulation*, U-tad, Madrid.  
Course of 15 hours designed and imparted
- 2015 **Big Data**, *University Master in Computer Engineering*, UPM, Madrid.  
Teacher of Data Visualization, 12 hours
- 2015 **Design of Web Applications**, *Bachelor in Computer Engineering*, UPM, Madrid.  
Teacher of CSS, 4 hours
- Director of 2 Final Degree Projects**, UPM, Madrid.

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## Personal Projects

- 2015 **Participant in ActúaUPM**, UPM.  
StartUp competition. Accessit in the best idea fase
- 2011 **Participant in Visualizar'11**, *Medialab Prado*.  
Programming in the project "From Extraction to Reaction"
- 2011 **Participant in Abredatos Challenge**, *Pro Bono Publico*.  
Open Data competition

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## Awards

- 2014 **PhD Excel Contributions Award**, *Facultad de Informática de la UPM*.
- 2008 **Best Final Degree Project**, *Facultad de Informática de la UPM*.
- 2007 **Academic performance**, *Fundación General de la UPM (FGUPM)*.  
One per faculty, at midpoint of the grade

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