

## PERSONAL INFORMATION



## José Felipe Ortega Soto

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📅 Date of birth 09/10/1980 | 🇪🇸 Nationality Spanish

## PROFESSIONAL FIELD

## Data Scientist

## WORK EXPERIENCE

October 2012 - Present

**Researcher and lecturer**

Department of Informatics and Statistics.

University Rey Juan Carlos, Móstoles, Madrid (<http://www.urjc.es>)

- Design and integration of **computational systems** and **methodologies** for **big data analysis** in different application domains: **online communities** (Wikipedia, Stack Exchange) and **social media**, **software engineering** (open source), **online learning**, **energy efficiency**, **content classification** or **opinion mining**.

- Participation in **more than 5 national and international research projects**.

- **Technologies**: Python, R, Spark, Hadoop, MySQL/MariaDB, PostgreSQL, HDF5, MongoDB.

- **Statistics and machine learning**: multivariate data analysis, time series, survival analysis, network analysis, clustering, classification systems, multilevel/hierarchical models, analysis of inequalities.

- **Training** students and professional teams **on big data technologies** (Python, R, Spark, Hadoop, RDBMS, NoSQL, statistical models, data visualization, reproducible analytics, etc.).

🏢 Business or sector Higher Education

September 2005 – February 2014

**Lecturer**

Department of Information and Communication Technologies.

University Alfonso X El Sabio, Vva. de la Cañada, Madrid. (<http://www.uax.es>)

Coordinator for the courses Computer Architecture, Communication Networks, Design and Engineering of Networks and Services (Telecommunications Engineering), Cryptography: Techniques and Applications (Computer Science Engineering) and Information Society (Bachelor in Computer Science).

🏢 Business or sector Higher Education

November 2007 – October 2012

**Researcher and Project Manager**

GSyC/Libresoft group. Department of Telematics Systems and Computing.

University Rey Juan Carlos, Fuenlabrada, Madrid. (<http://www.libresoft.es>)

- Design, development, integration and management of computing systems for **quantitative data analysis**: software development (Python, R, shell scripting); design, administration and deployment of information systems; REST APIs; databases; statistic analysis.

- **Open source software expert**: project development and management, community management, economic and business models with open source software.

- Participation in **more than 15 national and international projects** (total funding +4M€), with private companies, multinationals (Telefonica, Vodafone, Google) and public organizations (e.g. European Commission).

**Business or sector** Higher Education

May 2010 – May 2012

**Lecturer**

School of Industry Organisation (Spanish Ministry of Industry) (<http://www.eoi.es>)

Lecturer in the Master on Digital Economy and Creative Industries.

**Business or sector** Higher Education

EDUCATION AND TRAINING

November 2005 – April 2009

**Doctor in Computer Science and Mathematical Modelling**

Level 8: Doctor

University Rey Juan Carlos, Fuenlabrada, Madrid.

Scientific computing and software development (Python, R), statistic analysis, databases (MySQL, PostgreSQL), *big data*.

**Doctoral thesis:** *Wikipedia: A quantitative Analysis*. Design and implementation of a **reproducible research methodology and software** for **quantitative analysis** of the free encyclopedia **Wikipedia**.

Results from this thesis received **ample coverage in national and international media**, including Newsweek, The Guardian or [The Wall Street Journal](#), among others.

October 1998 – July 2003

**Telecommunications Engineering**

Level 7: Master

University Alfonso X El Sabio, Vva. de la Cañada, Madrid.

Specialized in communication networks and information systems. **Best Academic Record Award**, July 2003.

PERSONAL SKILLS

Mother tongue

Spanish

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	A2	B1	A2	A2	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2: Proficient user  
Common European Framework of Reference for Languages

Communication skills

- Good competencies for **proposal, presentation and dissemination of outcomes**, from participation in more than 20 national and international projects.
- Excellent skills for **dissemination of research results**, including more than 20 publications (books, peer-reviewed journals and international conferences).
- Numerous appearances in **national and international media**, explaining results from research works with broad impact.
- Conferences at world-renowned centres such as Georgia Institute of Technology, Xerox PARC or Instituto Cervantes, among others.

**Organisational / managerial skills**

- Excellent **leadership** skills acquired through more than 5 years in project management (teams of 5-10 persons).
- Very good **organisation and planning** competencies, as well as good capacity for multitasking at different levels of detail (management and development).
- Good skills for working in **multidisciplinary** and **multicultural environments**, through participation in international projects and a research stay (Telecom Bretagne, Brest, France).
- Good competencies on **management** (including **economic** aspects), proposal **conceptualization and preparation** in research and innovation projects.
- Excellent skills for **organization of international dissemination events** and conferences (Programme Chair WikiSym 2010, General Chair WikiSym 2011, co-chair mini-tracks at HICSS, etc.).

**Job-related skills**

- More than 8 years of experience in **big data analysis**, with special emphasis on **open source software** and **reproducibility**.
- More than 10 years of experience in **cross-platform software development** with **Python** and **Java** (JDK 7), Linux/Unix shell scripting, C and C++.
- More than 3 years of experience with the **Apache Hadoop** and **Apache Spark** architectures, as well as **NoSQL technologies** (**Redis**, **MongoDB**, **Neo4J**).
- More than 7 years of experience in **statistical programming with R** (**RStudio**, **Shiny**), applying multiple techniques: linear models, multivariate data analysis, time series, survival analysis, classification systems, clustering, analysis of inequalities, quality metrics, social network analysis.
- More than 7 years of experience in **relational databases management and optimization** (**MariaDB/MySQL**, **PostgreSQL**, **SQLite**) and database connectors and APIs (**SQLAlchemy**).
- Extensive knowledge in **data retrieval and preparation** using multiple formats (CSV, XML, JSON, YAML, HDF5), open data repositories and semantic web technologies (RDF, SPARQL).
- Experience with high-performance messaging systems like **OMQ** and **RabbitMQ**.
- Very good skills in development of **RESTful web services** (Python and Django) for data retrieval, data provision and web applications.
- Excellent competencies in **technologies for distributed software development**: version control (Git, SVN), bug-tracking (Bugzilla, Mantis, JIRA), software development platforms (GitHub, Redmine).
- Experience in **web development** (HTML, CSS, JavaScript, PHP).

**Additional computer skills**

- Experience (user and administrator) on **Windows** systems (Windows XP, Windows 7).
- Experience (user and administrator) on **GNU/Linux** systems (Debian, Ubuntu).
- Experience with all components of multiple **office suites** (MS Office, OpenOffice, LibreOffice): word processors, presentations, spreadsheets, etc.
- Good skills in document edition and layout design with **LaTeX**.
- Usage and administration of **wiki platforms** (MediaWiki, DocuWiki).

**Other skills**

- Good skills on **photography** and **image manipulation packages** (Gimp, Photoshop Lightroom).  
Basic knowledge on **graphical design** with Inkscape.

**Driving licence**

- EU Class B

## References

**Prof. Kevin Crowston**

Professor, School of Information Studies.  
Syracuse University, Syracuse (NY), USA.  
[crowston@syr.edu](mailto:crowston@syr.edu)

**Dr. Nicolas Jullien**

Associate Professor, Département LUSI.  
Telecom Bretagne, Brest, France.  
[Nicolas.Jullien@telecom-bretagne.eu](mailto:Nicolas.Jullien@telecom-bretagne.eu)

**Dr. Javier M. Moguerza**

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