

Juan Quintana

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WORKING EXPERIENCE

· Japan Meteorological Corporation

Chief Engineer

Osaka, Japan

2015 – currently

- CFD models: WindSim, WAsP and Phoenix
- Datamining to study patterns of apps usage in Japan
- Web data scraping and analysis of contamination spread
- Analysis of weather application content and customer preferences in Japan
- Setup Galion Doppler Lidar device
- Wind Offshore exhibitor staff in WIND EXPO 2016
- Development of environmental software: data analysis for pollution and wind assessment services
- Forecasting, Machine Learning: wind power generation, electricity demand.
- Doppler Lidar data processing

· EREDA, Renewable Energy Solutions

Research and Development Department Manager: Meteorological Technician & Senior Developer

Madrid, Spain

2012 – 2015

- Solar and meteorological (WRF) modelling.
- Data processing and statistical analysis software development.
- Management, design, development, testing and server implementation of web application.
- Technical and functional analysis of software projects.

· Foundation for Research of Climate Change (FIC) and Meteogrid

Meteorological Technician & Software Developer

Madrid, Spain

2010 – 2012

- Use, development and validation of statistical downscaling technique for climate forecast.
- Local and synoptic subjective weather conditions forecast in Spain.
- Preparing weather and climatic reports in different places of the world.
- Technical contributions in scientific poster.
- Management and processing of massive datasets.

· Spain Meteorological Agency (AEMET)

Aeronautic meteorological observer

Málaga, Spain

2010

- Government employee in Prediction and Monitoring Group of Andalucia, Spain.
- Support of meteorologist and meteorological monitoring.

· Spain Meteorological Agency (AEMET)

Fellow graduate

Madrid, Spain

2007 – 2009

- Project ENSEMBLES: "Application of dynamic techniques of downscaling for seasonal forecast".
- European Centre for Medium-Range Weather Forecast (ECMWF) supercomputer use.
- Working with numerical models for seasonal forecast.

· CORITEL SA (Accenture Spain)

Junior Programmer

Madrid, Spain

2006 – 2007

- Lotus Notes environment: errors control, technical and functional analysis.

EDUCATION

· College course in Satellite Remote Sensing : 800 hours

Spanish Distance Learning College (UNED)

Distance course

2009 – 2010

· Aeronautic meteorological observer course: 120 hours

Spain Meteorological Agency (AEMET)

Madrid, Spain

2009

· Training course in Junior Programmer: 320 hours

Coritel SA (Accenture Spain)

Madrid, Spain

2006

· Course: "Programming languages": 309 hours / C, C++ Visual C++

CEI & Languages Academy

Guadalajara, Spain

2005

MAIN TECHNICAL SKILLS

- **Programming languages:** Fortran, Shell-Script, AWK, R, MatLab, Lotus Notes, C, C++, OpenMP, Visual C++, Visual Basic, Python, Numpy, Pandas, Scipy, Git, Java, Java-Script, jQuery, Angular JS, SQL, HTML, CSS, L^AT_EX, PHP, Apache
- **Databases:** MySQL, MongoDB
- **Tools:** Python libraries for Machine Learning: Scikit Learn, StatsModels / Web services of interest: Kaggle, GitHub, Coursera, Udacity
- **OS:** Linux (Ubuntu, Debian, CentOS, Redhat), Mac OS X, Windows
- **Languages:** ENGLISH - B1 TOEIC * SPANISH - MOTHER LANGUAGE * Studying Japanese

OBJECTIVE STATEMENTS

Begin a professional career in Japan * Learn Japanese language * Live in Japan for a long time.

ANNEX - EVOLUTION OF TECHNICAL KNOWLEDGE

Skills developed outside work	Currently
<ul style="list-style-type: none"> – Python Algorithms development: data web parsing, data processing and analysis -> DATA MINING. Frameworks Numpy, Pandas and Scipy usage. Machine learning libraries: Scikit Learn, StatsModels Web API for Python: Evernote, Twitter, Lindekin. Python Web Framework: Bottle. Machine Learning competitions. 	Advanced Level
<ul style="list-style-type: none"> – R, MatLab Meteorological and climatic data mining and statistical analysis. 	Advanced Level
<ul style="list-style-type: none"> – L^AT_EX Technical and personal templates/documents creation. 	Medium Level
<ul style="list-style-type: none"> – PHP, HTML, CSS, Javascript Websites creation, maintenance and management. Data web parsing. 	Advanced Level
<ul style="list-style-type: none"> – LINUX / Shell-Script Scripts development to process and manage datasets. Root account using of operative system based in Linux / Unix (Ubuntu, Debian, Mac OS X). 	Advanced Level
<ul style="list-style-type: none"> · Japan Meteorological Corporation 	2015 – currently
<ul style="list-style-type: none"> – Project management and software development Data analysis, post processing and consultancy for environmental projects (pollution and wind assessment). 	Advanced Level
<ul style="list-style-type: none"> – CDF models Usage of CFD models for dispersion projects and wind assessment. 	Medium Level
<ul style="list-style-type: none"> – Forecasting Research and Development for the implementation of prediction models for energy business services. 	Medium Level
<ul style="list-style-type: none"> · EREDA, Renewable Energy Solutions 	2012 – 2015
<ul style="list-style-type: none"> – Project management and software development Consultant in Windows 8 desktop app development project. Technical and functional manager of web application development platform for visual and statistical data analysis made in Django framework. 	Medium Level
<ul style="list-style-type: none"> – Hardware and software management of company Linux web server installation and management. Networks management and monitoring. Computers and information systems management. 	Medium Level
<ul style="list-style-type: none"> – Python, Object Oriented Programming Modeling, data processing. Django project (backend) design and development. 	High Level
<ul style="list-style-type: none"> – MySQL Management and data processing. Django project (backend) development. Data storage and backup systems development of company. 	Advanced Level
<ul style="list-style-type: none"> – HTML, CSS, Javascript, javascript frameworks: jQuery, Angular JS Django project (client side) design and development. 	Medium-Advanced Level

<ul style="list-style-type: none"> - C++ , Object Oriented Programming Data processing scripts development written in Object Oriented Programming and in parallel execution programming with OpenMP. Development of solar production algorithm using Object Oriented Programming and own libraries. 	<i>Medium-Advanced Level</i>
<ul style="list-style-type: none"> - LINUX / Shell-Script Data processing scripts and jobs development. Ubuntu OS user with root account. 	<i>Advanced Level</i>
<ul style="list-style-type: none"> - R y Matlab Modeling, data statistical analysis and plotting in R environment. 	<i>Advanced Level</i>
<ul style="list-style-type: none"> - CDO, XConv, GRIBEX, Ferret, etc Use and development with command scripting to process and manage binary data (GRIB and NETCDF format). 	<i>Medium Level</i>
<ul style="list-style-type: none"> - FORTRAN Modeling and data processing. 	<i>Advanced Level</i>
· Foundation for Research of Climate Change (abbreviation into spanish, FIC) and Meteogrid	2010 – 2012
<ul style="list-style-type: none"> - FORTRAN Modeling with statistical algorithm, heavy computations and data processing. 	<i>Advanced Level</i>
<ul style="list-style-type: none"> - LINUX / Shell-Script Data processing scripts and jobs development. Ubuntu OS user with root account. 	<i>Medium Level</i>
<ul style="list-style-type: none"> - R Modeling, data statistical analysis and plotting in R environment. 	<i>Basic Level</i>
<ul style="list-style-type: none"> - Python Data processing and web parsing. 	<i>Basic Level</i>
<ul style="list-style-type: none"> - CDO, GRIBEX, Ferret, etc Use and development with command scripting to process and manage binary data (GRIB and NETCDF format). 	<i>Basic Level</i>
· Agencia Estatal de Meteorología (AEMET)	2007 – 2009
<ul style="list-style-type: none"> - FORTRAN Modeling with dynamical algorithm, heavy computations and data processing. 	<i>Medium-Advanced Level</i>
<ul style="list-style-type: none"> - LINUX / Shell-Script y AWK Data processing scripts and remote jobs development. RedHat OS user with root account. 	<i>Medium Level</i>
<ul style="list-style-type: none"> - Metview, CDO, GRIBEX, Ferret, etc Use and development with command scripting to process and manage binary data (GRIB and NETCDF format). 	<i>Basic Level</i>
· CORITEL SA (Accenture Spain)	2006 – 2007
<ul style="list-style-type: none"> - LOTUS NOTES Maintenance and development: errors control, software and databases technical and functional analysis. 	<i>Medium-Advanced Level</i>
<ul style="list-style-type: none"> - Java (Education) Java education during 3 weeks in company: basic Object Oriented Programming and background running by <i>pipes</i>. 	<i>Basic Level</i>
<ul style="list-style-type: none"> - JavaScript, HTML, SQL, ASP (Education) Basic education during 2 weeks in company. 	<i>Basic Level</i>
<ul style="list-style-type: none"> - Visual Basic (Education) Education during 1 month and practise programming a Windows desktop application with web interaction. 	<i>Basic Level</i>
· EDUCATION: Course "Programming languages"	2005
<ul style="list-style-type: none"> - C, C++ y Visual C++(Education) Course during 309 hours and practise programming a Windows desktop financial management software. 	<i>Basic-Medium Level</i>