

# 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.
- **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
- **Degree in Physics: applied physics option**  
*Universidad Autónoma de Madrid (UAM)*  
Madrid, Spain  
1999 – 2004

## 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<sup>A</sup>T<sub>E</sub>X, 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

<ul style="list-style-type: none"> <li>· <b>Skills developed outside work</b> <ul style="list-style-type: none"> <li>- <b>Python</b> Algorithms development: data web parsing, data processing and analysis -&gt; 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.</li> <li>- <b>R, MatLab</b> Meteorological and climatic data mining and statistical analysis.</li> <li>- <b>L<sup>A</sup>T<sub>E</sub>X</b> Technical and personal templates/documents creation.</li> <li>- <b>PHP, HTML, CSS, Javascript</b> Websites creation, maintenance and management. Data web parsing.</li> <li>- <b>LINUX / Shell-Script</b> Scripts development to process and manage datasets. Root account using of operative system based in Linux / Unix (Ubuntu, Debian, Mac OS X).</li> </ul> </li> <li>· <b>Japan Meteorological Corporation</b> <ul style="list-style-type: none"> <li>- <b>Project management and software development</b> Data analysis, post processing and consultancy for environmental projects (pollution and wind assessment).</li> <li>- <b>CDF models</b> Usage of CFD models for dispersion projects and wind assessment.</li> <li>- <b>Forecasting</b> Research and Development for the implementation of prediction models for energy business services.</li> </ul> </li> <li>· <b>EREDA, Renewable Energy Solutions</b> <ul style="list-style-type: none"> <li>- <b>Project management and software development</b> 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.</li> <li>- <b>Hardware and software management of company</b> Linux web server installation and management. Networks management and monitoring. Computers and information systems management.</li> <li>- <b>Python, Object Oriented Programming</b> Modeling, data processing. Django project (backend) design and development.</li> <li>- <b>MySQL</b> Management and data processing. Django project (backend) development. Data storage and backup systems development of company.</li> <li>- <b>HTML, CSS, Javascript, javascript frameworks: jQuery, Angular JS</b> Django project (client side) design and development.</li> <li>- <b>C++ , Object Oriented Programming</b> 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.</li> </ul> </li> </ul>	<p><b>Currently</b> <i>Advanced Level</i></p> <p><i>Advanced Level</i></p> <p><i>Medium Level</i></p> <p><i>Advanced Level</i></p> <p><i>Advanced Level</i></p> <p><b>2015 – currently</b> <i>Advanced Level</i></p> <p><i>Medium Level</i></p> <p><i>Medium Level</i></p> <p><b>2012 – 2015</b> <i>Medium Level</i></p> <p><i>Medium Level</i></p> <p><i>Hight Level</i></p> <p><i>Advanced Level</i></p> <p><i>Medium-Advanced Level</i></p> <p><i>Medium-Advanced Level</i></p>
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<ul style="list-style-type: none"> <li>- <b>LINUX / Shell-Script</b> Data processing scripts and jobs development. Ubuntu OS user with root account.</li> </ul>	<i>Advanced Level</i>
<ul style="list-style-type: none"> <li>- <b>R y Matlab</b> Modeling, data statistical analysis and plotting in R environment.</li> </ul>	<i>Advanced Level</i>
<ul style="list-style-type: none"> <li>- <b>CDO, XConv, GRIBEX, Ferret, etc</b> Use and development with command scripting to process and manage binary data (GRIB and NETCDF format).</li> </ul>	<i>Medium Level</i>
<ul style="list-style-type: none"> <li>- <b>FORTRAN</b> Modeling and data processing.</li> </ul>	<i>Advanced Level</i>
· <b>Foundation for Research of Climate Change (abbreviation into spanish, FIC) and Meteogrid</b>	<b>2010 – 2012</b>
<ul style="list-style-type: none"> <li>- <b>FORTRAN</b> Modeling with statistical algorithm, heavy computations and data processing.</li> </ul>	<i>Advanced Level</i>
<ul style="list-style-type: none"> <li>- <b>LINUX / Shell-Script</b> Data processing scripts and jobs development. Ubuntu OS user with root account.</li> </ul>	<i>Medium Level</i>
<ul style="list-style-type: none"> <li>- <b>R</b> Modeling, data statistical analysis and plotting in R environment.</li> </ul>	<i>Basic Level</i>
<ul style="list-style-type: none"> <li>- <b>Python</b> Data processing and web parsing.</li> </ul>	<i>Basic Level</i>
<ul style="list-style-type: none"> <li>- <b>CDO, GRIBEX, Ferret, etc</b> Use and development with command scripting to process and manage binary data (GRIB and NETCDF format).</li> </ul>	<i>Basic Level</i>
· <b>Agencia Estatal de Meteorología (AEMET)</b>	<b>2007 – 2009</b>
<ul style="list-style-type: none"> <li>- <b>FORTRAN</b> Modeling with dynamical algorithm, heavy computations and data processing.</li> </ul>	<i>Medium-Advanced Level</i>
<ul style="list-style-type: none"> <li>- <b>LINUX / Shell-Script y AWK</b> Data processing scripts and remote jobs development. RedHat OS user with root account.</li> </ul>	<i>Medium Level</i>
<ul style="list-style-type: none"> <li>- <b>Metview, CDO, GRIBEX, Ferret, etc</b> Use and development with command scripting to process and manage binary data (GRIB and NETCDF format).</li> </ul>	<i>Basic Level</i>
· <b>CORITEL SA (Accenture Spain)</b>	<b>2006 – 2007</b>
<ul style="list-style-type: none"> <li>- <b>LOTUS NOTES</b> Maintenance and development: errors control, software and databases technical and functional analysis.</li> </ul>	<i>Medium-Advanced Level</i>
<ul style="list-style-type: none"> <li>- <b>Java (Education)</b> Java education during 3 weeks in company: basic Object Oriented Programming and background running by <i>pipes</i>.</li> </ul>	<i>Basic Level</i>
<ul style="list-style-type: none"> <li>- <b>JavaScript, HTML, SQL, ASP (Education)</b> Basic education during 2 weeks in company.</li> </ul>	<i>Basic Level</i>
<ul style="list-style-type: none"> <li>- <b>Visual Basic (Education)</b> Education during 1 month and practise programming a Windows desktop application with web interaction.</li> </ul>	<i>Basic Level</i>
· <b>EDUCATION: Course "Programming languages"</b>	<b>2005</b>
<ul style="list-style-type: none"> <li>- <b>C, C++ y Visual C++(Education)</b> Course during 309 hours and practise programming a Windows desktop financial management software.</li> </ul>	<i>Basic-Medium Level</i>