

# Juan Quintana

📍 Osaka, Japan  
☎ +8109098889027  
✉ jmq.veguillas@gmail.com



## 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<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

Skills developed outside work	Currently
<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> </ul>	Advanced Level
<ul style="list-style-type: none"> <li>– <b>R, MatLab</b> Meteorological and climatic data mining and statistical analysis.</li> </ul>	Advanced Level
<ul style="list-style-type: none"> <li>– <b>L<sup>A</sup>T<sub>E</sub>X</b> Technical and personal templates/documents creation.</li> </ul>	Medium Level
<ul style="list-style-type: none"> <li>– <b>PHP, HTML, CSS, Javascript</b> Websites creation, maintenance and management. Data web parsing.</li> </ul>	Advanced Level
<ul style="list-style-type: none"> <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>	Advanced Level
<ul style="list-style-type: none"> <li>· <b>Japan Meteorological Corporation</b></li> </ul>	2015 – currently
<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> </ul>	Advanced Level
<ul style="list-style-type: none"> <li>– <b>CDF models</b> Usage of CFD models for dispersion projects and wind assessment.</li> </ul>	Medium Level
<ul style="list-style-type: none"> <li>– <b>Forecasting</b> Research and Development for the implementation of prediction models for energy business services.</li> </ul>	Medium Level
<ul style="list-style-type: none"> <li>· <b>EREDA, Renewable Energy Solutions</b></li> </ul>	2012 – 2015
<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> </ul>	Medium Level
<ul style="list-style-type: none"> <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> </ul>	Medium Level
<ul style="list-style-type: none"> <li>– <b>Python, Object Oriented Programming</b> Modeling, data processing. Django project (backend) design and development.</li> </ul>	High Level
<ul style="list-style-type: none"> <li>– <b>MySQL</b> Management and data processing. Django project (backend) development. Data storage and backup systems development of company.</li> </ul>	Advanced Level
<ul style="list-style-type: none"> <li>– <b>HTML, CSS, Javascript, javascript frameworks: jQuery, Angular JS</b> Django project (client side) design and development.</li> </ul>	Medium-Advanced Level

<ul style="list-style-type: none"> <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>	<i>Medium-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>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>