

## PERSONAL INFORMATION

## Fernando Manzano Muñoz



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**Date of birth** 24/11/1982 | **Nationality** Spanish

## WORK EXPERIENCE

5/2018–Present

**Consultant: Project Copernicus**

Nologin Consulting - Puertos del Estado

Phase II Copernicus (CMEMS) In Situ TAC continuing with the same responsibilities and development of activities started in the previous phase.

**Business or sector** Operational oceanography

10/2015–5/2018

**Division Chief: Project Copernicus**

Puertos del Estado

Co-responsible of IBI region (Iberia-Biscay-Ireland) in CMEMS In Situ TAC. Development and management of the IBI region data operations. Procedures for data acquisition, quality control, generation of NetCDFs, visualization and comparison tools. Development of transversal components. Co-leading the development of the In Situ TAC website. Documentation associated with the CMEMS service.

■ *Technologies* Java, Python, NetCDF, PHP, Javascript, XML, JSON, INGRES, PostreSQL, MySQL.

**Business or sector** Operational oceanography

9/2012–10/2015

**IT Responsible: Project MyOcean**

Puertos del Estado

Co-responsible for the IBI region (Iberia-Biscay-Ireland) of MyOcean2 and MyOcean Follow-on. Development and management of the IBI data operations. Procedures for data acquisition, quality control, generation of NetCDFs.

■ *Technologies* Java, Python, NetCDF, PHP, Javascript, XML, JSON, INGRES, PostreSQL, MySQL.

**Business or sector** Operational oceanography

9/2009–9/2012

**Analyst / Consultant: Support and evolution of Facturae format**

Satec - Ministry of Industry, Tourism and Commerce

Development and evolution of Facturae format 4.0 version, aligned with international standards (CEN BII, UNCEFACT CII ...). BBDD Oracle and Oracle Forms / Reports application.

■ *Technologies* Java, Hibernate, Struts, Spring, Oracle

**Business or sector** e-Invoicing

1/2008–9/2009

**Project Manager: Facturae application**

VASS - Ministry of Industry, Tourism and Commerce

Analysis, design and programming of the official application for generating electronic invoices offered by the Ministry at a national level: Facturae.

**Business or sector** e-Invoicing

- 9/2007–1/2008 **Project Manager: e-Agora web portal**  
 Telenium - Telefónica  
 Leading the development team of the QJ User Management application, which manages the LDAP of the e-Ágora Providers Portal, critical for the Telefónica de España business.  
**Business or sector** Telecommunications
- 7/2005–9/2007 **Analyst / Programmer: e-Agora web portal**  
 Telenium - Telefónica  
 Responsible for the integration of applications in the Portal. Portal Administrator. Development of JSP and Java components on Vignette 7.  
 ■ *Technologies* Java, JSP, Vignette  
**Business or sector** Telecommunications
- 5/2004–8/2004 **Programmer: PDSL project**  
 AXPE Consulting - National Center for Supervision and Operations (CNSO)  
 Support to the CNSO as a PDSL expert to configure monitored tests.  
 ■ *Technologies* Perl, OVIS (HP), Firehunter (Agilent), CitraTest (TEVRON)  
**Business or sector** Internet services
- 8/2003–7/2005 **Programmer / Integrator: PDSL project**  
 Telefónica I+D  
 Solaris System Administrator. ECommerce platform management.  
 ■ *Technologies* Java, JSP (incluyendo “droplets”), ATG Dynamo  
**Business or sector** Telecommunications

EDUCATION AND TRAINING

- 2000–2005 **Engineering degree in Computer Science** EQF level 7  
 University College of Computer Science of Ciudad Real - University of Castilla-La Mancha  
 Specialized in *Modeling and data storage / Database management*  
 Software Engineering, Advanced Programming, Concurrent Programming, Advanced Databases, Artificial Intelligence, Project Management.  
 PFC: Oracle Label Security Code Generator for Secure Databases. q. with honors

PERSONAL SKILLS

Mother tongue(s) Spanish

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1

International Institute – Madrid – 2007 / 2008  
 Upper intermediate – Puertos del Estado (King's Training)– Madrid – 2012 / 2013  
 Advanced – Puertos del Estado (King's Training and Diverbo)– Madrid – 2013 / 2018

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
 Common European Framework of Reference for Languages

## Communication skills

- Good communication skills acquired through participation in different European projects related to operational oceanography. At an earlier stage, as an expert in electronic invoicing, I have also actively participated in working groups and conferences.
- Working in different companies, from different sectors of activity, has given me a plural vision when interacting with colleagues and people of different profile.

## Organisational / managerial skills

- Co-responsible for CMEMS In Situ TAC in IBI region.
- Co-leading development of website of CMEMS In Situ TAC, KPIs and Dashboard.
- Co-leading the homogenization process of the products of CMEMS In Situ TAC.
- Several Project Manager positions and coordination throughout my professional career.

## Job-related skills

- Advanced knowledge in Software Engineering and Programming.
- Multidisciplinary vision in the management of databases, programming languages, requirements analysis, architecture and design of software components.
- Application of methodologies and documentation associated to each of the software projects in which I have participated.
- Knowledge in physical and operational oceanography acquired in the MyOcean and Copernicus projects.

## Other skills

- Operative Systems: Linux, Solaris, Windows, MacOS.
- Languages: Java, Python, PHP, PLSQL, FORTRAN, .NET (C#, VB), C, ADA, Perl, Shell.
- Frameworks: Spring, Struts, JSF, Hibernate, iBATIS, AOP.
- Data Bases: PostgreSQL, Ingres, Oracle, MySQL, MongoDB, HSQLDB, SQLServer, MySQL.

## ADDITIONAL INFORMATION

## Memberships

- CMEMS In Situ TAC Steering Team
- EGU member (European Geosciences Union) 2016 / 2017 / 2018 / 2019

## Publications

- Pérez-Gómez, B, **Manzano-Muñoz F**, Alvarez-Fanjul E, González C, Cantavella JV, Schindelé F. Lessons Derived from Two High-Frequency Sea Level Events in the Atlantic: Implications for Coastal Risk Analysis and Tsunami Detection. *Frontiers in Marine Science*.3:206. 2016.
- Pérez-Gómez B, Álvarez-Fanjul E, She J, Pérez-González I, **Manzano-Muñoz F**. Extreme sea level events, Section 4.4, p:300. In: Von Schuckmann et al: The Copernicus Marine Environment Monitoring Service Ocean State Report, *Journal of Operational Oceanography*. 9 (sup2): 235-320, 2016.
- Pouliquen, S., Carval, T., Guillotin, D., Coatanoan, C., Loubrieu, T., Guyot, C., Szekeley, T., Gourrion, J., Grouazel, A., Von Schuckmann, K., Wedhe, H., Ringheim, L. S., Hammarklint, T., Hartman, A., Soetje, K., Gies, T., Jandt, S., Muller, L., De Alfonso, M., **Manzano Muñoz, F.**, Perivoliotis, L., Kassis, D., Chalkiopoulos, A., Marinova, V., Jaccard, P., Ledang, A., Sorensen, K., Notarstefano, G., Tintore, J., Kaitala, S., Roiha, P., Rickards, L., Manzella, G., Reseghetti, F. 2014. MyOcean In-Situ Thematic Centre: A service for operational Oceanography. In: 7th EuroGOOS Conference Proceedings .Lisboa, 28-30 October 2014. 5 p.

## Presentations

- **F. Manzano Muñoz**, S. Pérez Rubio, M. de Alfonso Alonso-Muñoyerro, E. Álvarez Fanjul. Puertos del Estado Data Center. EGU General Assembly - Informatics in Oceanography and Ocean Science ESSI 1.1. Viena, Austria, Abril 2018.
- **F. Manzano Muñoz**, S. Pouliquen, L. Petit de la Villeon, T. Carval, T. Loubrieu, H. Wedhe, L. S. Ringheim, T. Hammarklint, S. Tamm, M. De Alfonso, L. Perivoliotis, A. Chalkiopoulos, V. Marinova, G. Notarstefano, J. Tintore, C. Troupin. CMEMS (Copernicus Marine Environment Monitoring

Service) In Situ Thematic Assembly Centre: A service for operational Oceanography. Asamblea General de la EGU, Viena, Austria, Abr 2016.

- T. Carval, **F. Manzano Muñoz**, S. Pouliquen, L. Petit de la Villeon, T. Loubrieu, H. Wedhe, L. S. Ringheim, T. Hammarklint, S. Tamm, M. De Alfonso, L. Perivoliotis, A. Chalkiopoulos, V. Marinova, J. Tintore, and C. Troupin. CMEMS in situ TAC. Copernicus Marine Environment Monitoring Service in situ Thematic Assembly Centre. A service for Operational Oceanography. 4th Workshop Anual IQuOD. Tokyo, Japón. Oct 2016.
- **F. Manzano Muñoz**. 1er CMEMS IBI User & Training Workshop In Situ TAC. Copernicus Marine Service Workshop for Atlantic European South West Shelf Ocean. Lisboa, Portugal, Dec 2015.

#### Conferencias y congresos

- CMEMS In Situ TAC semiannual general assemblies.
- EGU General Assembly 2018.
- CMEMS AOR Annual Operations Review. Heraklion (Creta) - 2017, Palermo (Sicilia) 2018.
- EGU General Assembly 2016.
- VI Congress in e-Invoicing and Certified Digitalization. ASIMELEC. Feb 2012.
- 7º EXPP Summit, e-Invoicing International Congress. Barcelona. Sep 2011.
- Conferencia Electronic Invoicing in Europe de 2010
- V Congress in e-Invoicing and Certified Digitalization. ASIMELEC. Abr 2010.
- CEN/ISSS elvoicing phase 2 Workshop. Sept 2009.
- IV Congress in e-Invoicing and Certified Digitalization. ASIMELEC. May 2009.
- FLEIT Forum Portuguese-Spanish of Technology Innovation. Zaragoza. Oct 2004.

#### Courses

- Scientific Python
- Detection and Correction of Web Application Vulnerabilities.
- J2EE. Web development with Jakarta Struts and Spring.
- Administration and development in Linux.
- Java Web Services development.
- Security problems of systems on the Internet.
- Visual Basic .NET programming
- Visual Studio 2010 and .NET Framework 4.0

#### Seminars

- J2EE architecture
- Java and J2EE applications optimization
- Java and XML
- Neutral Comparison of Application Servers J2EE
- J2EE foundations
- Linux firewall: Netfilter
- Web Services introduction
- DBA module in Toad
- ¿J2EE or .NET?
- MySQL