Michael García Rodríguez

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Experience

SINCE JANUARY 2017
Ph.D. Student / EphysLab – Science faculty, Univ. de Vigo – Spain.

Research related to the reproducibility of climate models for the completion of TFM in computer engineering. Researcher in the project "Recovery of preindustrial ozone data" developing doctoral thesis.

JULY 2016 – DECEMBER 2016
Researcher/ School of Computer Science, Univ. de Vigo - Spain

Hardware designer; software developer: Arduino, Raspberry and web; DDBB Administrator.

JUNE 2015 – JUNE 2016
Software engineer / Grupo Cuevas S.A., Ourense - Spain

IT developer: Microsoft Dynamics AX; QlickView; C#; Java; DDBB administration; network infrastructure. (250-500 employees, World wide exportation).

FEBRUARY 2015 – MAY 2015
Scholar on practice / Adolfo Domínguez S.A., Ourense - Spain

System administration, network infrastructure and web developer. (1000-5000 employees, World wide).

AUGUST 2011
Apprentice / El Asturiano, Ourense - Spain

Small family business belonging to the construction sector in which plumbing, heating, roofing and slate roofing, as well as installation of gutters.

Education

JUNE 2017
MSc. degree in computer engineering, School of Computer Science, Univ. de Vigo - Spain

JUNE 2013
BSc. in computer engineering, School of Computer Science, Univ. de Vigo - Spain

Main Software Developments

- "JugglerStory": final BSc. project. "Choose your own adventure" software with capabilities to give an interact with the history or to play all the possibilities available;
- "FortranAnalyser": a Fortran code multi-language static analysis tool cross-platform developed as part of the MSc. It helps to measure the quality of the software for maintenance and refactoring for all versions of Fortran.

Certifications

- Basic administrative and typing skills (40 hours) – "Delta PC Achademy";
- Python coding (18 hours) –"Universidade de Vigo";
- Youth in policy dialogue –"Erasmus+, European Union";
- Marine services and supercomputing: future experiences and challenges - "Spanish Supercomputing Network";
- Energy and Sustainable Development –"Chair Fenosa";

Languages

- Galician: native. Advanced level certification (Celga 4);
- French: native. Intermediate level certificate (B2 – National Languages School);
- English. Intermediate level certification (B1 – National Languages School).

Media and awards

- Silver award to the best MSc. project with Free Software 2017 (Galicia regional goverment);
- "Developed from Ourense a pioneering application for the analysis of software quality" (in Spanish) published in "Código cero" magazine;
- "Interest of the NASA for a quality software program designed on the campus" (in Spanish) published in "La Voz de Galicia" newspaper;
- "FortranAnalyser, a software quality analysis tool that attracts the interest of the NASA" (in Spanish) published in "Diario de la Universidad de Vigo" news;

Congress and seminars

- FortranAnalyser: a software tool to assess Fortran code quality – European Geosciences Union General Assembly: 8-13 april 2018, Vienna (Austria);
- Study of the computational reproducibility of CMIP5 - XXXVI Biennial Meeting of the Spanish Royal Spanish Society of Physics: 17-21 JULY 2017, Santiago de Compostela (Spain);
- Study of the computational reproducibility of CMIP5 - High Performance Computing and Modelling of Atmospheric and Ocean Sciences: 18 JULY 2017, Santiago de Compostela (Spain).

Publications

- "FortranAnalyser: a software tool to assess Fortran code quality" – PloS One (Submitted);
- "High Performance Computing in Physics of the Atmosphere and the Oceans" – Revista Española de Física;