

Alfredo Hernández 29th June, 1994

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EXPERIENCE

Universitat Autònoma de Barcelona

uab.cat

Statistical Programmer & Project Manager

July 2018 – Present

In the frame of RENEB, we are developing Biodose Tools, an Open Source R Shiny application to help professionals and researchers on Biological Dosimetry to perform several computations and statistical analyses. We also aim to clarify and document the tests used and to propose those considered most appropriate.

Our end-goal is to replace the current software used by different laboratories and to standardise the used statistical methods. This will have a major impact in Interlaboratory Comparison tests for Quality Assurance.

Centre de Recerca Matemàtica

crm.cat

Complex Systems Intern

September 2017 – July 2018

My master's thesis (with Alvaro Corral and Isabel Serra as my thesis supervisors) consists on developing statistical methods using bootstrap, permutation tests, and clustering to study the influence of sea surface temperature on tropical-cyclone intensity.

Additionally, I have created a unified hurricane occurrences dataset with finer temporal temperature tracking than those currently available.

Complex Systems Intern

February – July 2017

My bachelor's thesis (with Alvaro Corral as my thesis supervisor) consists of the study of real hurricanes occurrences using some simple statistical models. The main skills I developed are:

- Data extraction.
- Programming.
- Statistical analysis.

Computational Neuroscience Intern

February – July 2017

Under the supervision of Alexander Roxin, I studied the macroscopic and microscopic description for networks of spiking neurons. The main skills I developed are:

- Mathematical analysis.
- Numerical simulations.

Ubuntu GNOME

ubuntugnome.org

Marketing Lead

April 2013 – October 2017

As Ubuntu GNOME became an official flavour of Ubuntu, I started working on the branding to help build a powerful and recognisable image. My team and I were in charge of all artwork and social-media-related aspects of this young GNU/Linux distribution.

My biggest accomplishments as the Marketing Lead have been:

- Collaborating with a wonderful team of talented people.
- Organising trademark agreements with the GNOME Foundation.
- With the help of others, giving the best desktop UX possible to our users.

elementary OS

elementary.io

Software Localisator

June 2010 – 2016

I used to contribute to the localisation of elementary OS, a GNU/Linux distribution. For 6 years I coordinated the Catalan and English (UK) Translators teams. I was also a member of the Spanish Translators team.

EDUCATION

Universitat Autònoma de Barcelona	CERDANYOLA DEL VALLÈS, SPAIN
MSc in Modelling for Science and Engineering	2017 – 2018
Thesis: <i>The Influence of Sea Surface Temperature on Tropical-Cyclone Intensity.</i>	
Bachelor's degree in Physics	2012 – 2017
Thesis: <i>On Tropical-Cyclones: An Statistical Analysis on a Warming Environment.</i>	
Institut de Vic	VIC, SPAIN
Baccalaureate diploma in Mixed Sciences	2010 – 2012

CONFERENCE PRESENTATIONS

XXIXth International Biometric Conference	BARCELONA, SPAIN
Poster Presentation	8–13 th July 2018
Poster: <i>The Environmental Influence on Tropical-Cyclones.</i>	
VII Jornada complexitat.cat	BARCELONA, SPAIN
Poster Presentation	29 th May 2018
Poster: <i>The Influence of Sea Surface Temperature on Tropical-Cyclone Intensity.</i>	

CERTIFICATES

Ubuntu	
Ubuntu Membership	5th May 2016
Official Ubuntu Membership means recognition of significant and sustained contribution to Ubuntu or the Ubuntu community. In particular, of my continuous collaboration in Ubuntu GNOME.	
The Linux Foundation	
LFC291-Compliance Basics for Developers	5th April 2016
Because open source is now found everywhere software exists, a good working knowledge of open source licensing and compliance is critical.	

COMPUTER SKILLS

Advanced: GNU/Linux, R, Python, Shiny, L ^A T _E X, Git, Inkscape.
Intermediate: TensorFlow, Mathematica, Bash, awk, Jekyll, HTML, CSS, macOS, GIMP.
Basic: Spark, Hadoop, SQL, C++, C, MATLAB, bzr.

OTHER INFORMATION

Natural languages: Spanish (<i>mother tongue</i>), Catalan (<i>mother tongue</i>), and English (<i>professional working proficiency</i>).
Interests: cinematography, art history, literature, linguistics, mathematics, music, open source, woodworking, cooking, typography, and UI/UX-design.