

# Enrique GARCIA

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## ABOUT

Software engineer with experience leading technical teams on international projects, with expertise in DevOps & Cloud, Scientific Computing, Data analysis, Software development and classical Machine Learning. Driven by a continuous learning mindset shaped by my background in Physics and Astrophysics, and my international career.

## SKILLS

**Software & Data:** Python, Bash, Git, REST APIs, Data analysis, Classical Machine Learning.

**Cloud & DevOps:** Kubernetes, Docker, Singularity, Helm, Flux, ArcoCD, OpenStack, Terraform, GitOps, CI/CD (GitLab, GitHub).

**Project Leadership:** Agile and Scrum Methodologies.

**Identity Management:** IAM, OAuth 2.0, OIDC.

**Observability:** Grafana, Kibana, Prometheus.

**Databases:** PostgreSQL, MySQL.

**HPC & Distributed Computing:** Slurm, HTCondor, REANA, Rucio, CVMFS.

**Web Technologies:** Node.js, JavaScript.

## LANGUAGES

**Spanish:** native.

**English:** C1 - proficient.

**French:** C1 - proficient.

## EXTRACURRICULAR ACTIVITIES

**Driving license:** Type B.

**Mountaineering instructor:** *Club Alpin Français d'Annecy* (2022 - 2025).

Paragliding Pilot License (FFVL).

Advanced Open Water Diver.

Eight years of **music theory** and **Piano** education (*Trinity Guildhall*).

**Astronomy Outreach Coordinator**, Antares Astronomy Club (2008-13), and **President** (2011).

Scout **camp counsellor** for children and teenagers - *Grupo Scout Pinar* (2007 - 2014).

## WORK EXPERIENCE

**CERN** – Geneva, Switzerland.

Oct 2022 – Sep 2025

Scientific Computing Fellow – IT department, Tech Coordination group.

- **Coordinator of the [ESCAPE VRE \(Virtual Research Environment\)](#) platform:** maintenance and development of the VRE, a community-driven **analysis facility** that allows end-to-end scientific analyses.
  - Via a unique login ([ESCAPE INDIGO IAM](#)) the VRE links interactive Notebooks ([JupyterHub](#)) with a scientific data management service ([RUCIO](#) framework) and enables the offloading of workflows to a platform focused on scientific reproducibility ([REANA](#)).
- **Led the consolidation of [ESCAPE](#) (EU H2020 project) partner's activities** across data management and scientific analysis platforms.
- **Contributor** to the [standardization of scientific data management infrastructure](#) for small- and medium-scale experiments at CERN using Rucio.
- **Contributor** to the Rucio [source code](#), **deputy** of the [JupyterLab](#) plugin.
- **Contributor** to the integration of the VRE into the EOSC EU Node (European Open Science Cloud) during the setup of the [CERN Node](#) and the [EOSC Association](#).
- **Supervisor** of three CERN Summer Student projects: [REANA](#) & [Zenodo](#) JupyterLab extensions and their [OAuth2.0 implementation](#).

**LAPP/CNRS-IN2P3** – Annecy, France.

Jul 2019 – Sep 2022

Data and Software Engineer – CTA/HESS High energy astrophysics group.

- **Developer** of software [libraries and data analysis pipelines](#) for the LST and CTA collaborations. **Contributor** to the integration of the [real-time analysis pipeline](#) into the CTA/ACADA framework.
- LST-1 Cherenkov **telescope operator** (1 month on site and 1 year remotely).
- **Teaching assistant** for laboratory classes at the IUT of Annecy (*Université Savoie–Mont Blanc*) in Electrical Engineering and Industrial Computing.
- **Tutor** in the ESCAPE [2021](#) and [2022](#) summer schools & LST [2022](#) LST data analysis school.

**Altran-Tesella (WCC Madrid)** – Madrid, Spain.

Oct 2018 – Jun 2019

Junior Data Scientist / Consultant.

- **Provision of tailored guidance and support** for digital transformation within Spanish companies. Implementation of classical Machine Learning (ML) models according to client needs.

**IPAG/OSUG**, Grenoble (France) – PhD Candidate.

Nov 2014 – Sep 2017

**CAB/INTA-CSIC**, Madrid (Spain) – MSc student intern.

Sep 2013 – Sep 2014

## EDUCATION

**MSc in Astrophysics**

*Universidad Complutense de Madrid (UCM)*

Sep 2013 – Sep 2014

**BSc in Physics (5 year degree)**

*Universidad Autónoma de Madrid (UAM)*

Sep 2008 – Sep 2013

- Erasmus exchange *Niels Bohr Institute* (Copenhagen) Sep 2012 – Jun 2013

## PROFESSIONAL REFERENCES

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### **Simone Campana**

WLCG Project Leader & CERN IT  
Department Head.  
[simone.campana@cern.ch](mailto:simone.campana@cern.ch)

### **Xavier Espinal Currull**

Capacity Planning Leader, CERN, IT  
department.  
[xavier.espinal@cern.ch](mailto:xavier.espinal@cern.ch)

### **Thomas Vuillaume**

Ingénieur de recherche,  
LAPP/CNRS-IN2P3.  
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## RELEVANT PUBLICATIONS

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Additional publications available through [orcid](#).

- *Data discovery, analysis and reproducibility in Virtual Research Environments* - [arXiv link](#)
- *A Pilot Analysis Facility at CERN, Architecture, Implementation and First Evaluation* - [CHEP 2024 link](#)
- *The Virtual Research Environment: A multi-science analysis platform* - [EPI Web of Conferences link](#)
- *The Science Alert Generation system of the Cherenkov Telescope Array Observatory* – [arXiv link](#)
- *Performance of the Large-Sized Telescope prototype of the Cherenkov Telescope Array* – [arXiv Link](#)