

Alvaro Diez

Curriculum Vitae

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📄 github.com/AlGepe

University Studies

- 2010-2017 **Degree in Physics**, *Universidad de Cantabria, Santander, Final Grade.*
7.45/10
- 2017-Current **Masters in Physics**, *Specialisation in "Mathematical and computer modeling of physical processes"*, University of Warsaw, Warsaw.

Remarks:

- 2012-2013 Erasmus in Bergen (Norway)
- Bachelor's thesis:
Title *Fast simulation of transients in irradiated silicon detectors*
Supervisor Marcos Fernández García (UC-CERN)

Experience

Laboral

- June-September (2015) **Internship at CERN**, *CERN, Geneva*, Member of the PH-DD-SSD group, Main developer of TRACS, a fast simulator for irradiated silicon detectors in C++.
Summer Student Program
- February-October (2016) **Internship at CERN**, *CERN, Geneva*, Member of the EP-DT-FS-Gas group, Controlling gas mixtures inside selected gaseous detectors from the LHC and providing technical assistance to researchers in gas-related matters.
Technical Student Program

Vocational

- 2013-2017 **Founder and member of the Physics Mentor Group**, *Santander*, Group founded by 4 students to help new university students and publicise science.

Journalism

- 2012-2016 **Blog Journalist.**
- *El Androide Libre* One year as journalist for one of the most visited Android weblogs in Spanish
 - *Medciencia* Two years as science journalist for Medciencia

Sports

- 2007-2017 **Handball Referee**, *8 years of handball refereeing*,
Highest Category: National Referee (2011-2014),
Refereed several National and International Championships u-18.
- 2009-2010 **Handball coach of a kids team.**

Languages

English	C1 Level	<i>Cambridge Certificate in Advance English obtained in May 2010</i>
French	Basic Level	<i>Studied french at school 2004-2008 & lived in France for 11 months</i>

Computer skills

Software Development	C/C++, Python, git Intermediate knowledge with experience in data analysis Java, gdb/ddd, bash, Matlab, UML, ROOT, Cuda, MPI, OpenMP Basic knowledge with experience
Operative Systems	Linux, OSX, Windows Intermediate/Advance and fluent usage of command line interface as well as remote work (e.g.: ssh, sshfs...)
Office Suites	MS Office, LibreOffice, L^AT_EX Intermediate level with experience mainly in Latex and Excel
Text Editors	Vim Intermediate/Advance with extended experience as main editor including IDE-like plugins

Additional Information

Driving License *Category: B*

Links to relevant information

References and Publications

Academic

- Personal GitHub (<https://github.com/AlGepe>)
- Publication at CERN Developing a fast simulator for irradiated silicon detectors (<http://cds.cern.ch/record/2057142>)
- Final talk on project at CERN: TRACS radiation upgrade v2.0(<https://indico.cern.ch/event/447412>)
- Talk at Summer Student Sessions at CERN Developing a fast simulator for irradiated silicon detectors
- Public Gas Monitoring web: Test Gas Monitoring
- Bachelor thesis:
 - Personal repository(tex format): <https://github.com/AlGepe/TFG>

Journalism (Hyperlinked)

Most succesful articles.

- Graphene Supercapacitors: batteries will charge in 30 seconds and last all day
- Why does blue LED deserve a Nobel Prize in Physics and green LED doesn't?
- The story of the "invisible monster" that wrecked trains in Siberia
- How to think in 11 dimensions and not die in the process

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