

# Alvaro Diez

## Curriculum Vitae

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📄 github.com/AlGepe

### Pre - University Studies

2008-2010 **Bachillerato Español**, *Instituto Santa Clara*, Santander, *High School Studies*.

- Final grade: 8.1/10 Including selectividad<sup>1</sup>

2008-2010 **International Baccalaureate**, *Instituto Santa Clara*, Santander, *High School Studies*.

Studied simultaneously with "Bachillerato" and completed in two years following High School's schedule

- Final grade: 31 pt
  - Including 6/7 in Physics

### University Studies

2010-2017 **Degree in Physics**, *Universidad de Cantabria*, Santander,  
Final Grade Spanish: 7.45/10 || GPA: 3.30 / 4.

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)
  - PR Paper *[Awaiting approval]*

### 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

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<sup>1</sup>National university entry exam

## 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**.

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## 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 &amp; lived in France for 11 months</i>

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## Computer skills

Software Development	<b>C/C++, Python, git</b> Intermediate knowledge with experience in data analysis <b>Java, gdb/ddd, bash, Matlab, UML, ROOT, Cuda, MPI, OpenMP</b> Basic knowledge with experience
Operative Systems	<b>Linux, OSX, Windows</b> Intermediate/Advance and fluent usage of command line interface as well as remote work (e.g.: ssh, sshfs...)
Office Suites	<b>MSOffice, LibreOffice, <math>\text{\LaTeX}</math></b> Intermediate/Advance and fluent usage of command line interface as well as remote work (e.g.: ssh, sshfs...)
Text Editors	<b>Vim</b> Intermediate/Advance with extended experience as main editor including IDE-like plugins

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## Additional Information

Driving License *Category: B*

# Links to relevant information

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## 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

I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Personal Data Protection Act as of 29 August 1997, consolidated text: Journal of Laws 2016, item 922 as amended.