

# Curriculum Vitæ — Óscar Francisco Godinho Pereira

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## Formal Education

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- **University of Minho**, Braga, Portugal.  
PhD in Informatics, MAP-i Doctoral Programme, Fall 2015–present.
- **University of Minho**, Braga, Portugal.  
MSc in Informatics Engineering, Fall 2013–Fall 2015. *Mark*: 16/20.  
*Master Thesis*: Towards a Fully Algebrisable Symmetric Cryptosystem.  
*Advisor*: José Manuel E. Valença. *Mark*: 18/20.  
Academic performance in curricular part got him the **2013/2014 Multicert School Award**.<sup>1</sup>
- **University of Coimbra**, Coimbra, Portugal.  
*Licenciatura* (roughly a 5 year pre-Bologna BSc) in Informatics Engineering, Fall 2001–Fall 2006.

## Professional Experience

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- **University of Minho**, Braga, Portugal.  
Teaching Assistant.
  - FALL, SCHOOL YEAR 2016/2017 – **Cryptography and Information Security** (1st year of MSc in Informatics Engineering), and **Computational Logic** (3rd year of BSc in Computer Science). Lab classes in both cases.
- **AnubisNetworks**, Lisbon, Portugal.  
Software Engineer (multi-class), June 2007 – April 2013.
  - FROM OCTOBER 2012 – Moved to the Operations team. Handled SpamAssassin management and performance tuning. Developed software to partially automate some management tasks, as well as spam statistics collection and analysis.  
REQUIREMENTS: SpamAssassin, Perl, Apache, RRDTool.
  - FROM JUNE 2011 – Development of *myFamily* and *Web Protection Service* web content filtering services. Focus on user interface and authentication.  
REQUIREMENTS: C++, HTML, CSS, HTTP, tcpflow.
  - FROM MAY 2009 – Participated in the development of a distributed architecture for MPS. The purpose was to allow multi-node installations, in order to meet the scalability requirements needed by carriers and other large customers.  
REQUIREMENTS: Perl, Postfix, LDAP.
  - FROM JUNE 2007 – Implemented the Reports module of the *Mail Protection System*<sup>™</sup> appliance (MPS)—Anubis' flagship product. Redesigned the latter's database to support that module—and to begin separating business logic from underlying system actions. Also became the *de facto* maintainer of the web interface, during this period.  
REQUIREMENTS: Perl, Apache, MySQL.

## Technical Skills

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### ▷ PROGRAMMING LANGUAGES

- **Imperative**: *proficient*: C, Perl; *experienced*: C++, Python; *basic skills*: Java, Javascript/JQuery, Vim script.
- **Functional**: *basic skills*: Common Lisp.
- **Markup**: *proficient*: HTML, CSS,  $\text{\LaTeX}$ , Markdown; *basic skills*: UML.

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<sup>1</sup>See <https://www.multicert.com/en/about-us/universities/>.

## ▷ OPERATING SYSTEMS

- **GNU/Linux:** Began experimenting different distributions in 2000; became a regular user circa 2005.
  - Proficient ARCH LINUX user (current distribution of choice for personal computers).
  - Experienced with DEBIAN and UBUNTU SERVER (mainly for small-network servers).
- **Microsoft Windows:** Last version regularly used was XP (SP3). Nowadays, occasionally fires up Win 10, to play the occasional computer game.

## ▷ MISCELLANEOUS SOFTWARE

- **Text Editors:** Vim (proficient).
- **Network:** Open{SSH,SSL}, tcpflow, iptables, RRDTool, GnuPG.
- **Mathematics:** GNUplot, SageMath, libgmp.
- **Databases:** MySQL, SQLite, PostgreSQL.

## Languages

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*Common European Framework of Reference for Languages (CEFR) levels given for non-native idioms.*

- **Portuguese:** native language. (*Note: European Portuguese*)
- **English:** fluent, both written (C1) and spoken (C1).
- **Spanish:** basic writing skills (A2) but fluent speaker (B2).

## Additional Information

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*“Extras” from Academia*

- **Extended listings.** To keep the CV short, some listings are omitted; they are available at <https://randomwalk.eu/cv/>.

*Informal Education / Professional Development*

- **Cryptography I**, Stanford University, 2012.  
Coursera Online Platform – <http://www.cryptography-class.org>. *Grade:* 98%.
- **Curso Especial de Empresa**, (employer-sponsored Spanish language training), 2008–2009.  
Instituto Cervantes de Lisboa. *Grade:* Sobresaliente (9 out of 10).

*Miscellanea*

- Outdoor sports enthusiast—mainly surf and football.
- Enjoys recreational—and often not-so-recreational—mathematics, as well as physics (and chess).
- Participated in the 2003 and 2004 editions of *Minho Campus Party* (Portugal’s first large scale LAN party!).
- Writes at <https://randomwalk.eu/>. Paraphrasing the Nobel prize winning physicist Richard Feynman: *to explain, one must first understand*. Writing being mostly about the former, it provides a strong incentive to put in the effort needed to achieve the latter. Besides, writing helps one to become a better—and faster!—reader.
- The above notwithstanding, he chronically tends to accumulate more books than what he is able to read.
- Full Portuguese driving license—Category B, passenger light vehicles.