# Pedro Valero

## Personal Data

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| Place and Date of Birth: | Spain \| 10 July 1993 |
| Address: | 73 Avda Constitución, Madrid, Spain |
| Phone: | +034 653 054 056 |
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| GitHub: | pevalme |

## Work Experience

**Sep 2016 - Current** | *PhD at IMDEA Sofware Institute*

**Sep 2015-May 2016** | *Internship at IMDEA Sofware Institute*
Worked on my Final Degree Thesis in languages and security. Written in english.

**Jun-Sep 2015** | *Internship at Max Planck Institute*
Developed a system to control a robot by using gestures and hands to give the orders. The needed environment to simulate the robot and the needed language to control it had also been set up.

**Sep 2014-Apr 2015** | *Internship at IMDEA Software Institute*
Improved the tool mist, a safety checker for Petri Nets and extensions.

**Sep 2014-Apr 2015** | *Tutor*
Teaching "Introduction to programming" and "Data structures" to first year university students.

**Jun-Sep 2014** | *Internship at IMDEA Software Institute*
Developed a program using **awk, bash** and **python** to count the number of words of each length which satisfies a given regular expression. Also used the **C++** API of **Z3** to compare the obtained results.

**Jun 2011-Oct 2013** | *Tutor, Freelance*
Mathematics, physics and chemistry guidance to university freshman and high school students.

## Publications

ATVA 2017    A Language-Theoretic View on Network Protocols
*with Pierre Ganty and Boris Köpf*

## Education

May 2016    Double degree at Compute Science and Maths
at **Universidad Autónoma de Madrid**
GPA: 9.14/10

May 2011    High school Science Track, **Colegio Joyfe**
GPA: 9.44/10 *Graduate with honors*

## Awards

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| Excellence Grant 2011-2012 | Obtained with a mark of 9.34/10 |
| Excellence Grant 2012-2013 | Obtained with a mark of 8.98/10 |
| Excellence Grant 2013-2014 | Obtained with a mark of 8.69/10 |
| Excellence Grant 2014-2015 | Obtained with a mark of 9.20/10 |

## Languages

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| English: | Fluent; Use of English acquired throughout internships at **IMDEA Software Institute** and **Max Plank Institute** |
| Spanish: | Mothertongue |
| French: | Basic Knowledge |

## Computer Skills

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| Advanced Knowledge: | C, python, LaTeX, awk, Ubuntu, flex, bison, ROS |
| Intermediate Knowledge: | C++, html, css, php, java, bash, lisp, Matlab/Octave, Linux |
| Basic Knowledge: | sql, VHDL, Sage, Pascal |

## Projects

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| **IRC Chat** | Developed both client and a server for a chat IRC by using **C**. |
| **Web application** | Encoded using **html5**, **css**, **xml**, **php**, **sql** for a VideoClub as an assigment of the University obtaining the maximum score. |
| **Compiler** | Built a compiler for a simplified version of **C** using **flex** and **bison** |

## Interests and Activities

I'm an sporty person and enjoy running and playing basketball. I'm a member of a basketball team at my University and use to participate in popular races such has the half marathon of my hometown. Among my interests solving mathematical or programming challenges is also found.