

# Juan Sidrach de Cardona Mora

## Resume

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## Education

2015 – 2017 **M.S. in Computational Science, Mathematics and Engineering**, University of California, San Diego.

2010 – 2015 **Double Degree in Mathematics and Computer Science**, Universidad Autónoma de Madrid,  
360 ECTS. Combined GPA – 8.4/10. Computer Science GPA – 9.1/10.

## Experience

Sept. 2015 – **Teaching Assistant**, University of California, San Diego - UCSD.

Present Department of Mathematics

July 2015 – **Web Developer**, *Innovación en Sistemas de Monitorización - ISM*.

- Sept. 2015
  - Defined, planned and managed the team tasks.
  - Incorporated several software tools to the work flow, speeding up the software development process.
  - Designed and implemented a module for the visualization of photovoltaic and self-consumption facilities for emoncms (emoncms.org, a powerful open-source web-app for processing and visualising energy and other environmental data).
  - Developed a semi-automatic system to create users with pre-defined features for emoncms.

Sept. 2014 – **Software Developer Intern**, *High Performance Computing and Networking - HPCN*.

- June 2015
  - Contributed to the implementation of an API to federate a testbed into the European project Fed4FIRE.
  - Designed and implemented a web-based service to manage high performance network FPGA traffic capturers, as part of the End-of-Degree Project.

June 2014 – **Banking Analytics Intern**, *Knowledge Engineering Institute - IIC*.

- Sept. 2012
  - Developed several software tools, as part of the Banking Analytics team.

June 2012 – **Web Developer Intern**, *Innovación en Sistemas de Monitorización - ISM*.

- Sept. 2012
  - Contributed to the emoncms project, implementing localization support.

## Other courses

Summer 2015 **Data Visualization**, University of Illinois at Urbana-Champaign (Coursera).

## Technical skills

Prog. Langs. C, JavaScript, PHP, HTML, CSS, C#, Java

Frameworks jQuery, node.js, express.js

## Honors, grants and awards

2011 – 2015 Highest Distinctions (honors, top 5%) awarded for the academic performance in the following courses:

- Introduction to Videogame Programming and Graphics (2015)
- Computer Systems II (2014)
- Artificial Intelligence (2013)
- Communication Networks II (2013)
- Introduction to Computers (2011)
- Computer Systems I (2014)
- Computer Architecture (2013)
- Programming Project (2012)
- Programming I (2011)

2011 – 2015 **Excellence Grant**, *Community of Madrid*,

Scholarship based on academic achievement, granted to the top ~5% university students.  
Awarded three times (2011, 2014, 2015).

2010 **"Ciudad de Málaga" Education Award**, *Málaga City Council*,

Granted for the academic performance (top 10 high-school students in the city).

## Languages

Spanish **Native**

English **TOEFL iBT (2015) - 108/120, Certificate in Advanced English (2014) - Exceptional in Writing and Reading.**

## Interests and hobbies

- Music (Piano, Drums, Saxophone)
- Open Source Projects