

## Jose Pablo Alberto Andreotti

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### Personal Information

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**Nationality**, Argentinian/Italian.

**Birth date**, October 8, 1982.

**Birth place**, Pico Truncado, Santa Cruz Provice, Argentina.

**Address**, 552, Emilio Castelar Street, Córdoba. Argentina.

### Education

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#### Distributed Systems, MSc.

Famaf, University of Córdoba, 2009.

Average Grade: 8.87/10.

Final Project: High Scalable Scientific Computing using Hadoop, found [here](#).

#### Computer Engineer, MSc.<sup>1</sup>

Engineering Faculty, University of Córdoba, 2007.

Average Grade: 8.14/10.

Thesis: Building a dual core JVM for embedded realtime systems, found [here](#).

#### High School at Colegio Corazón de María

Management Oriented School, 2000.

Average Grade: 8.22/10.

### Additional Coursework

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- ▷ Functional Programming Principles in Scala, Martin Odersky. Ecole Polytechnique Federale de Lausanne, December of 2013. [Link here](#).
- ▷ Image and video processing: From Mars to Hollywood with a stop at the hospital, Guillermo Sapiro, Duke University, first semester of 2013. [Link here](#).
- ▷ Digital Signal Processing, Paolo Prandoni and Martin Vetterli, Ecole Polytechnique Federale de Lausanne, first semester of 2013. [Link here](#).
- ▷ Machine Learning<sup>2</sup>, Andrew Ng, Stanford University, first semester of 2012. [Link here](#).
- ▷ High Performance Computing: Models, Methods and Means<sup>3</sup>, first semester 2010.
- ▷ The Semantic Web, PhD Jorge Cardoso, SAP Research Germany, first semester of 2009.
- ▷ Introduction to Radar Signal Processing, Msc Oscar Bria, INVAP, second semester of 2009. [Syllabus](#).

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<sup>1</sup>This degree is the equivalent to the European Master level, it is obtained through 5 years of course work and 1 year of research. The Argentinian name is "título de grado".

<sup>2</sup>This is the online version of the course.

<sup>3</sup>Unstructured Postgraduate, and Graduate Course, Fa.M.A.F. Sincronized with Prof. Thomas Sterling's CSC7600.

▷ Performance and Scaling in E-Commerce Systems WS, Alex Buchmann, second semester of 2008. Syllabus.

## Publications

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- ▷ Infrastructure for enabling fast machine learning application prototyping in the cloud. Intel SWPC, Guadalajara, MX, 2013.
- ▷ I contributed to DeepLearnToolbox, an open source Deep Learning toolbox written in Matlab. I added features to the CNN<sup>4</sup> part of the toolbox and added an example for Spoken Language Classification<sup>5</sup>
- ▷ Recommendations for Movies using Distributed Pattern Matching. Intel SWPC, Córdoba, AR, 2013.
- ▷ Optimization of an hydrodynamical bi-dimensional model. ENIEF, Congress on Numerical Methods and their Applications, 2009, link.
- ▷ Using JOP to build a chip multiprocessor JVM for embedded realtime systems. Annals of CACIC, 2007.

## Conferences attended as a lecturer

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### Intel Software Professional Conference, 2013.

Title: Prototyping Machine Learning Apps in the Cloud.

### ENIEF, Congress on Numerical Methods and their Applications, 2009.

Title: Optimization of an hydrodynamical bidimensional model.

### Second Open Conferences in Computer Engineering, National University of Córdoba, 2008.

Title: Parallel Programming.

### First Open Conferences in Computer Engineering, National University of Córdoba, 2007.

Title: A multiprocessor JVM based on JOP.

### XIII Argentinian Congress on Computer Science, 2007.

Article's Title: Using JOP to build a chip multiprocessor JVM for embedded real-time systems.

## Scholarships and Awards

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- ▷ Distinction to the best average grade. Given by the College of Engineering of Córdoba, 2007.
- ▷ Grant earned for the completion of the Thesis Project. Given by the Science Agency of Córdoba, 2006.

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<sup>4</sup>Convolutional Neural Network.

<sup>5</sup>Based on the research found in this paper

## Professional Experience

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- 2010 to present**    **Sr. Software Engineer at Intel Corp.**  
 ▷ Worked in a Context Awareness and Inference Engine.  
 ▷ Worked in a project for Data Mining as a Service.  
 ▷ Development of Web Services and Embedded platform software.
- 2010**                **Member of the Computer Engineering Council at National University of Córdoba.**
- 2008 to 2010**      **Software Engineer at Motorola.**  
 ▷ Development of telecommunications software in C/C++.
- 2007**                **Self-employed in Software Optimization.**  
 I worked in projects involving the optimization of scientific applications in multiprocessor systems.
- 2007**                **Testing of the JOP processor and JDK.**  
 I worked testing JOP(Java Optimized Processor) for Dr. Martin Schoeberl from TU Wien.
- 2006 to 2008**      **Research Internship, Computer Architecture Lab, UNC.**  
 ▷ Optimization of Scientific programs over computer clusters and parallel programming with MPI, HPF and OpenMP.  
 ▷ Software development and testing in C/C++.

## Programming Experience

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- ▷ Development of embedded Software in C/C++, and Java.  
 ▷ Experience on mobile platforms such as Android and iOS.  
 ▷ Experience with RESTful Web Services on Python/Django and Scala/Akka/Play.  
 ▷ Low level programming of Digital Signal Processors in C/Assembly.

## Teaching Experience

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### Concurrent Programming TA

Computer Engineering faculty, National University of Cordoba, 2004.

### Multivariate Calculus TA

Electronic and Computer Engineering faculty, National University of Cordoba, 2003.

## Languages

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### Spanish

- ▷ Native Spanish speaker.

### German

- ▷ Currently attending the third year of a four year course in German at the School of Languages of the National University of Córdoba.

### English

- ▷ TOEFL iBT. Outcome 109 out of 120, November 2010.  
 ▷ TOEFL iBT. Outcome 110 out of 120, March 2008.  
 ▷ First Certificate Examination grade B. Given by Cambridge University, 2000.  
 ▷ Several courses attended from 1992 to 2000.

### Italian

- ▷ Four years course at the School of Languages of the National University of Córdoba, 2008.

### French

- ▷ One year course at "Alliance Française Córdoba", 2000.