# Jose Pablo Alberto Andreotti

(+54) 351-4730292 albertoandreotti@gmail.com (+54) 351-155937792

#### **Personal Information**

Nationality, Argentinian/Italian.

Birth date, October 8, 1982.

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

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

### Education

### 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

- ⊳ Machine Learning over big data sets, Pablo Duboue, Fa.M.A.F, National University of Córdoba, August/November of 2014. Link here.
- ⊳ 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 Learning², 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.

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

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

- ▷ Introduction to Radar Signal Processing, Msc Oscar Bria, INVAP, second semester of 2009. Syllabus.
- ▶ Performance and Scaling in E-Commerce Systems WS, Alex Buchmann, second semester of 2008. Syllabus.

#### **Publications**

- ▷ Infrastructure for enabling fast machine learning application prototyping in the cloud. Intel SWPC, Guadalajara, MX, 2013.
- $\triangleright$  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

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

- ▷ 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.

<sup>&</sup>lt;sup>4</sup>Convolutional Neural Network.

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

## Professional Experience

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.
	$\triangleright$ 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.
	$\triangleright$ Software development and testing in C/C++.
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## **Programming Experience**

- $\triangleright$  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

## 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

## 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.