

Jose Pablo Alberto Andreotti

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

Personal Information

Nationality, Argentinean/Italian.

Address, 369, Zelaya Street, Córdoba. Argentina.

Education

Postgraduate Specialization in Distributed Systems

[Faculty of Mathematics, Astronomy and Physics](#), National University of Córdoba, 2009.

Average Grade: 8.87/10.

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

Computer Engineer

Faculty of Exact, Physical and Natural Sciences, National University of Córdoba, 2007.

Average Grade: 8.14/10.

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

Additional Coursework

- ▷ [Natural Language Processing and Text Mining](#), Franco Luque y Laura Alonso, Fa.M.A.F, National University of Córdoba, 2015.
- ▷ [Machine Learning over big data sets](#), Pablo Duboue, Fa.M.A.F, National University of Córdoba, August/November of 2014.
- ▷ Introduction to Data Science, Coursera. 2014.
- ▷ [Functional Programming Principles in Scala](#), Martin Odersky. Ecole Polytechnique Federale de Lausanne, December of 2013.
- ▷ [Image and video processing: From Mars to Hollywood with a stop at the hospital](#), Guillermo Sapiro, Duke University, first semester of 2013.
- ▷ [Digital Signal Processing](#), Paolo Prandoni and Martin Vetterli, Ecole Polytechnique Federale de Lausanne, first semester of 2013.
- ▷ [Machine Learning](#).¹, Andrew Ng, Stanford University, first semester of 2012.
- ▷ High Performance Computing: Models, Methods and Means², 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](#).
- ▷ Performance and Scaling in E-Commerce Systems WS, Alex Buchmann, second semester of 2008. [Syllabus](#).

¹This is the online version of the course.

²Unstructured Postgraduate, and Graduate Course, Fa.M.A.F. Sincronized with Prof. Thomas Sterling's [CSC7600](#).

Publications

- ▷ 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 CNN³ part of the toolbox and added an example for Spoken Language Classification⁴
- ▷ 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.

³Convolutional Neural Network.

⁴Based on the research found in [this paper](#)

Professional Experience

- Current** **BTS Software, Sr. Software Engineer.**
 June /2014 to present ▷ At BTS we work together with the Samsung Strategy and Innovation Center (SSIC) building the SAMI big data platform.
 ▷ Sr. Software Engineer with focus on scalability and performance.
- Past** **Intel Corp, Sr. Software Engineer.**
 Jan./2011 ▷ Worked in Intel's [Context Awareness and Inference Engine](#).
 June/2014 ▷ Built a scalable knowledge representation database used for user recommendations.
 ▷ Development of Web Services and Embedded platform software.
- June/2014 **Nimbuzz, Software Engineer.**
 Jan./2011 ▷ Software development of the Nimbuzz VoIP client for iOS.
- 2011 **Member of the Computer Engineering Council at National University of Córdoba.**
 ▷ Worked as reviewer of study plans and curricula.
- Jun 2008 **Software Engineer at Motorola Argentina**
 Jun 2010 ▷ Development of Embedded Software in C/C++ for Cable Modem products.
 ▷ Development of tests for the Motorola [NBBS platform](#).
 ▷ Developed and maintained [AdvancedTCA](#) clusters running Linux.
- 2007/2008 **Self-employed**
 Optimization of Scientific Workloads using Parallel Programming Techniques.
- Mar./2006 **Computer Architecture Laboratory, UNC**
 Oct./2007 Research Internship, From March/2006 to October/2007.
 ▷ Optimization of Scientific programs over multiprocessor architectures and parallel programming with MPI, HPF and OpenMP.
 ▷ Testing of Embedded Systems for the Biomedical Industry.
- 2007 **Testing of the JOP processor and JDK**
 I worked testing the [Java Optimized Processor \(JOP\)](#).

Programming Experience

- ▷ 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 School, 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.