

Eloy Adonis Colell

*Licentiate degree in
Information Systems*

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📄 [ecolell.github.io](https://github.com/ecolell)

32 years old



Academic Formation

- 2014–2016 **Master Degree in Bioinformatics and Biology Systems**, *Universidad Nacional del Noroeste de la Provincia de Buenos Aires*, Pergamino, 576 hs / Thesis in development.
- 2005–2013 **Licentiate Degree in Information Systems**, *Universidad Nacional de Luján*, Luján.
- 2002–2005 **Bachelor Degree in Information Systems Analyst**, *Universidad Nacional de Luján*, Pergamino.
- 1999–2001 **High school Title oriented to Natural Sciences**, *Instituto Comercial Rancagua*, Rancagua.
- 1997–1998 **Basic General Education**, *School N° 54*, Rancagua.
- 1989–1996 **Basic General Education**, *School N° 62*, Pergamino.

Jobs Timeline

- 2012–2016 **Lead Software Developer at GERSolar**, *Universidad Nacional de Luján*, Luján.
I have worked on developing an architecture of satellite image processing, which has to estimate solar radiation at ground level, for the whole area of Argentina.
Technologies used: Python, twisted, netcdf, PyCUDA, CUDA, Heliosat2.
Git: <https://github.com/gersolar>.
Reference: raulrighini@yahoo.com.ar
- 2010–2012 **Researcher en el LIMIE**, Pergamino.
I collaborated on the development of a RRHH platform for a local business. Also, I have collaborated in the development of a portable ultrasound device to detect distances and assist blind people to recognize some obstacles.
Technologies used: C (ARM-embbeded), LPC1343, Ruby.
- 2007–2009 **Laboratory assistant at LIFIA**, *Universidad Nacional de La Plata*, La Plata.
I was part of the development team of a testing platform for a communication protocol commonly used in the slot machines. The platform had two sides the Control of the User Interface developed with Python, and the Communication Backend developed in C++; both sides were integrated through a Lua stack.
Languages used: C++, Python, Lua.
Reference: federico.balaguer@lifia.info.unlp.edu.ar.
- 2008 **Collaborator in the Object Orientation 1 course**, *Universidad Nacional de La Plata*, La Plata.
I worked as a collaborator to help students in the understanding and resolution of the practical exercises related with Object Oriented Programming.
Language used: Smalltalk.

- 2006–2008 **Second assistant in the Programming III course**, *Universidad Nacional de Luján*, Luján.
I worked as an assistant to help students in the understanding and resolution of the practical exercises related with Object Oriented Programming Languages. Languages used: Smalltalk, Java.
Reference: alejandro.fernandez@lifa.info.unlp.edu.ar.

Academic Expertise

- 2016 **Machine Learning**, *Specialization course from the Stanford University through the Coursera website*.
It explains algorithm and math of some the automatic learning algorithms, explain the basics of the datamining and present the statistical pattern recognition.
Technologies used: Octave, Supervised Learning, Unsupervised Learning.
- 2013 **Adaptability to the context in web applications based on Continuations**, *Licentiate Degree Thesis*.
It present a model to work with context-aware adaptations in web applications through continuations, while it try to maintain the privacy of the web application user.
Technologies used: Smalltalk, Seaside, Meteorite, PhoneGap, Android.
- 2012 **Calculate Solar Radiation through imágenes of a MSG satellite**, *Specialization course in satellite image processing at the University of Jaen (Spain)*.
We replicated a study already done on the area of Andalusia (Spain) using satellite images Meteosat Second Generation.
Technologies used: Python, Heliosat2.
- 2011 **Coaching and Leadership Seminar**, *Dictated by Lic. Fabiola Robin Marquez*.
This course introduces the types of leadership, motivation, influence, conflict / mediation / resolution, decision-making and coaching.
- 2010 **Geostatistic Basic Concepts**, *Update Seminar II*.
I wrote a document to introduce the basic concepts of geostatistic to other professionals.
Technology used: Temporal series, Kriging.
- 2009 **Fundamentals of testing and functional testing techniques**, *Centro de Ensayos de Software*.
Coursed at the Faculty of Informatics, University of La Plata.
Technologies used: UnitTest, IntegrityTest.
- 2006 **South Supermarkets**, *Computer Lab III*, #PHP #MySQL #Apache.
It was an application that manages an on line market.
Technologies used: Apache, PHP, JavaScript.
- 2006 **DES Solar Energy**, *Expert systems*, #Smalltalk.
It was an application that allows to estimate the size of a home electric system based on solar energy using the experience of Ing. Raul Righini (UNLu).
Technology used: VisualWorks Smalltalk.
- 2006 **TSP with Genetic Algorithm v1.0**, *Artificial intelligence*, #Smalltalk.
It is an application that tries to solve the "Travelling Salesman Problem" using genetic algorithms.
Technology used: VisualWorks Smalltalk.
- 2006 **Tetris v1.2**, *Object Oriented Programming*, #Smalltalk.
This is a simple version of tetris.
Technology used: VisualWorks Smalltalk.
- 2005 **Roberto Insausti SA (Pergamino)**, *Professional seminar*.
Analysis and design of possible solutions to the company Roberto Insausti SA.

- 2004 **Gnat v1.4**, *Update Seminar I*.
This is a graphical application showing a reactive simulation of a mosquito's behavior.
Language used: Delphi.
- 2003 **Library System v4**, *Applied programming*.
It is a non-graphical application that manages a simple library system.
Technologies used: Perl, Firebird.

Knowledges

Modeling	design patterns, refactoring, machine learning	DB	firebird, mysql, postgresql, sqlite3
Services	apache, subversion, git	Virtualization	virtualbox, kvm
Networking	tcp/ip, route, nat, filters, iptables	OS	gnu/linux, osx, windows
Weak typing languages	javascript (prototype, jquery), lisp, lua, octave, perl, php, prolog, python (django), ruby (rails, wee), smalltalk (seaside, metorooid), xml, xsl	Strong typing languages	assembly, c/c++ (boost, asio, stl, lpc1343), delphi, java (android), L^AT_EX, visual basic
Utilities	gimp, vim, html, css, ssh, makefile		

Languages

Español	Nativo
English	Middle level
汉语	初始水平

References

Dr. Alejandro Fernández	alejandro.fernandez@lifa.info.unlp.edu.ar.
Dr. Federico Balaguer	federico.balaguer@lifa.info.unlp.edu.ar.
Mg. Gabriel Tolosa	tolosoft@unlu.edu.ar.
Mg. Fernando Bordignon	fernando.bordignon@gmail.com.
Dr. Raúl Righini	raulrighini@yahoo.com.ar.