

# Eloy Adonis Colell

*Licentiate degree in  
Information Systems*

San Nicolás 2310, Pergamino

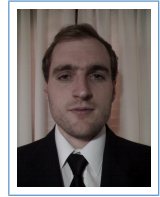
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📄 [ecolell.github.io](https://github.com/ecolell)

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, 436 hs cursadas / 576 hs totales.
- 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](mailto: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](mailto: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.

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

## Languages

Español	<b>Nativo</b>
English	<b>Middle level</b>
汉语	<b>初始水平</b>

## References

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