

Eloy Adonis Colell

*Master degree in
Bioinformatics and Biology Systems*

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

37 years old



Academic Formation

- 2014–2018 **Master Degree in Bioinformatics and System Biology**, *Universidad Nacional del Noroeste de la Provincia de Buenos Aires (UNNOBA)*, Pergamino.
- 2005–2013 **Licenciate 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.

Publications

- 2018 **MISTIC2: comprehensive server to study coevolution in protein families**, *Colell, EA et. al.*, *Nucleic Acids Research*.

Jobs Timeline

- 2018–2020 **Senior Software Developer**, *as Freelance contractor*, Remote.
I collaborated with the development and maintenance of some projects. It involved technologies like Flask, Celery, Objective C, SwiftUI, Docker Compose, and many others.
- 2020 **Bio Sciences Programming Concepts**, *Coordinator*, Remote.
I collaborated with the development and teaching of UNNOBA Master's degree class, into the Bioinformatics and System Biology plan.
- 2016–2017 **Software Developer in Willdom SA**, *Willdom SA*, Remote.
I collaborated with the development and maintenance of the SquareTradeGo online sales platform (on web and iOS).
- 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@lifia.info.unlp.edu.ar.

Academic Expertise

- 2018 **Development of a Bioinformatic Tool to study Coevolution in protein families**, *Master Degree Thesis*.
 I presented a platform in collaboration with the Leloir Institute to evaluate different algorithms to estimate coevolution between two protein positions from protein family data. Available on: <https://mistic2.leloir.org.ar>
- 2016 **Machine Learning**, *Specialization course from the Stanford University through the Coursera website*.
 It explains algorithm and math of some of 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 presents a model to work with context-aware adaptations in web applications through continuations, while it tries 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 geostatistics 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 **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.

Knowledges

Modeling	design patterns, refactoring, machine learning	DB	firebird, mongodb, mysql, postgresql, sqlite3
Services	apache, subversion, git, nginx	Virtualization	virtualbox, kvm
Networking	tcp/ip, route, nat, filters, iptables	OS	gnu/linux, osx, windows
Weak typing languages	javascript (cypress, reactjs, angularjs, jquery, knockoutjs, lodash, prototype, protractor, webpack), lisp, lua, octave, perl, php, prolog, python (django, flask, mocker, pytest, sqlalchemy), ruby (rails 5.1), smalltalk (seaside, meteoroid), xml, xsl	Strong typing languages	assembly, c/c++ (boost, asio, stl, lpc1343), delphi, java (android), \LaTeX, swift (iOS), objective C (iOS 11), visual basic
Utilities	gimp, vim, html, css, ssh, makefile, docker		

Languages

Español	Nativo
English	Middle level
汉语	初始水平

References

MBA Jeff Wang	wang.jeffc@gmail.com.
Dr. Gastón Ávila	avila.gas@gmail.com.
Dr. Raúl Righini	raulrighini@yahoo.com.ar.
Dr. Alejandro Fernández	alejandro.fernandez@lafia.info.unlp.edu.ar.
Mg. Gabriel Tolosa	tolosoft@unlu.edu.ar.
Mg. Fernando Bordignon	fernando.bordignon@gmail.com.