

# Eloy Adonis Colell

*M.S. in Biological Systems  
And Bioinformatics*

Pergamino, Argentina

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ecolell.github.io

37 years old

## 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**, *Wilddom 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.
- 2010–2012 **Researcher en el LIMIE**, Pergamino.  
I collaborated on the development of a RRHH plaform 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.

## Publications

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

## 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.

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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.
- 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.
- 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.

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## Knowledges

Modeling	<b>design patterns, refactoring, machine learning</b>	DB	<b>firebird, mongodb, mysql, postgresql, sqlite3</b>
Services	<b>apache, subversion, git, nginx</b>	Virtualization	<b>virtualbox, kvm</b>
Weak typing languages	<b>javascript (cypress, reactjs, angularjs, knockoutjs, lodash, webpack), lisp, lua, perl, php, prolog, python (django, flask, mocker, sqlalchemy), ruby (rails 5.1), smalltalk, xsl</b>	Strong typing languages	<b>assembly, c/c++ (lpc1343), delphi, java (android), <math>\text{\LaTeX}</math>, swift (iOS), objective C (iOS 11)</b>
Networking	<b>tcp/ip, route, nat, filters, iptables</b>	Utilities	<b>gnu/linux, osx, css, ssh, makefile, docker</b>

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## Languages

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

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## References

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