hernánmorales
full-stack developer

contact

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http://80738163270632
http://biosmalltalk
li://hernanm
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languages

spanish mother tongue
english advanced
français, lu bien, parlé
et écrit régulier

programming

♥ Smalltalk
Bash, R, Python,
Solidity, C++, SPARQL
GoLang, CSS3 &
HTML5

education

2019	**Decentralized Applications (Dapps)**	University at Buffalo and The State University of New York
	Grade Achieved: 94.9%	
2018	**Smart Contracts**	University at Buffalo and The State University of New York
	Grade Achieved: 88.0%	
2014	**R Programming**	Johns Hopkins University.
	Grade Achieved: 88.8%	
2014	**Bioinformatics: Introduction and Methods**	Peking University
	Grade Achieved: 95.2% with Distinction.	
1996–2003	**Computer Science (4th Years)**	Facultad de Informática. UNLP, Argentina

experience

Full Time

| 2010–Now | **CONICET** | La Plata, Buenos Aires |

Developer @ IGEVET. Institute of Veterinary Genetics

Requirements engineering, project management, coding, documentation and testing. Common tasks in my work are data engineering for biologists and geneticists, determine software and hardware needs, specify and evaluate technology brands and vendors

Detailed achievements:

- Created BioSmalltalk, the first pure-objects library for Bioinformatics.
- Applied Data Science with R and Python scripting.
- Built Institutional front-ends (HTML, CSS3, PHP, Smalltalk).
- Developed HPC cluster from scratch (Qlustar, Singularity, Galaxy).
- Developed Phylogeography text-mining system, Microarray and NGS big data sets.

| 2006–2009 | **CONICET** | Ciudad Autónoma de Buenos Aires, Argentina |

Developer @ CAICYT

Bibliographic Management System Project. First implementation of FRBR-oo reference model in Smalltalk, including major improvements. Experience with expertise visualization, website usability and optimization. Integration of multiple Information Systems (from National ISIS Database). Open-sourced libraries and toolkits. Experience with GemStone/S OODB and Seaside Web Framework.

| 2004-2005 | **Reyes Infográfica** | Remote Work |

Developer

Technology Project for 3-D Virtual Fashion Works. Developement and implementation of an ANSI high-performance Smalltalk dialect, an interface with a propietary 3D engine and several frameworks, including GUI and navigational tools.

awards

| 2016 | **INNOVAR 2016** | Ministerio de Ciencia, Tecnología e Innovación Productiva. Argentina |

For Applied Research in the Design of SNP Microarray "ArBos1".

communication skills

| 2016–2017 | **Oral Presentations** | IGEVET, Argentina |

As part of the annual semminary for researchers, I gave speaks about state of Information Technology Infrastructure at the Institute.

| 2011 | **Oral Presentation** | XL Genetics National Argentine Conference. Corrientes, Argentina |

Introduction to Bioinformatics Programming

interests

professional: software design, project management, web apps, IT security **personal:** guitar player, argumentation theory, tango dancing.

publications

| 2018 | **Genomic structural diversity in Criollo Argentino horses: analysis of copy number variations** | Accepted |

Gene

| 2017 | **Evidence of positive selection in the BoLA region of Brangus cattle** | DOI: 10.1017/S1751731117001380 |

Animal Journal

| 2016 | **DNA profile of dog feces as evidence to solve a homicide** | DOI: 10.1016/j.legalmed.2016.08.002 |

Legal Medicine 22:54-57

| 2014 | **Foreign meat identification by DNA breed assignment for the Chinese market** | DOI: 10.1016/j.meatsci.2014.07.028. |

Meat Science 98(4):822–827

| 2013 | **BioSmalltalk: a pure object system and library for bioinformatics** |

DOI: 10.1093/bioinformatics/btt398

Bioinformatics

| 2007 | **Introduction to object-oriented databases with db4o, .NET C# & Java** | DOI: 10.1093/bioinformatics/btt398 |

Solo Programadores n. 150 (June 2007)