

Mario Román

Mathematics + Functional Programming

contact

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languages

spanish

english

italian

programming

Haskell

C++, R

Python, Ruby, Coq

software

Gnu/Linux

Emacs

LaTeX

education

- 2013–2017 Bachelor degree in **Mathematics** [University of Granada](#), Spain
Emphasis in abstract algebra. GPA: 9.51/10
- 2013–2017 Bachelor degree in **Computer Science** [University of Granada](#), Spain
Emphasis in computation. GPA: 9.47/10
[Exchange student](#) at the [University of Milan](#) (2015–2016)
- 2016 Attended **Lambda World conference**
On Functional Programming
- 2015 Attended **ESSLLI conference** [Pompeu Fabra University](#), Spain
On Logic, Languages and Computation
- 2008-2012 **Estalmat** [University of Granada](#), Spain
A project to detect and stimulate the precocious mathematical talent.

programming projects

- 2015–Now **Mikrokosmos** github.com/M42/mikrokosmos
Hackage: hackage.haskell.org/package/mikrokosmos
An untyped lambda calculus interpreter written in Haskell supporting multiple evaluation strategies.
- 2014–2015 **GranaSAT Client** github.com/M42/granasatClient
Git repository: github.com/M42/granasatClient
Software for a satellite student experiment for the European Space Agency [BEXUS campaign](#).

mathematical projects

- 2016–Now **Koszul pairs and their applications** [University of Granada](#), Spain
Git repository: github.com/M42/math
Research grant. Working with the Algebra Department.
- 2015–Now **LibreIM** tux.ugr.es/dgiim/
Founder and coordinator of a [community](#) of Math&CS students. I am the main contributor to our [blog](#), and maintain our [Q&A site](#). We organize [seminars](#) where I have lectured about [Haskell](#), [Category theory](#) and [Type theory](#).

awards

- 2012–2013 **International Mathematical Olympiad (IMO)** [Argentina](#)
National *Silver & Gold Medals* and [international Honourable mention](#).

interests

I love **abstract algebra**, **category theory** and its applications to **functional programming**. My favorite programming language is **Haskell** but I am also very interested in the foundations of programming languages, lambda calculus and dependently typed languages such as Coq and Agda.