# Mario Román
Mathematics and Computer Science student

## contact
Granada,
Spain

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## languages
spanish mother tongue
english fluency (c1)
italian fluency

## programming
Haskell
C++, R
Python, Ruby, Coq

## software
Gnu/Linux
Emacs org-mode
LaTeX

# education

| | | |
|---|---|---|
| 2013–2017 | Bachelor degree in **Mathematics** | Universidad de Granada, Spain |

*Interest in abstract algebra.* Average calification: 9.5/10

| | | |
|---|---|---|
| 2007–2008 | Bachelor degree in **Computer Science** | Universidad de Granada, Spain |

*Interest in computation.* Average calification: 9.5/10
Exchange student at *Università degli studi di Milano (2015-2016)*

**2014–2016 Programming conferences & courses**
*Lambda World*, Cádiz, 2016
*ESSLLI. Logic, Languages and Computation*, Barcelona, 2015
*Data Science and Big Data*, UNIA, 2014

# projects

## programming projects

| | | |
|---|---|---|
| 2015–Now | **Mikrokosmos** | github.com/M42/mikrokosmos |

*Hackage: hackage.haskell.org/package/mikrokosmos*
An untyped lambda calculus interpreter written in Haskell supporting lazy and eager evaluation.

| | | |
|---|---|---|
| 2014–2015 | **GranaSAT Client** | github.com/M42/granasatClient |

*Git repository: https://github.com/M42/granasatClient*
Software for a satellite student experiment for the European Space Agency BEXUS campaign.

## mathematical projects

| | | |
|---|---|---|
| 2016–Now | **Koszul pairs and its applications** | Universidad de Granada, Spain |

*Git repository: https://github.com/M42/math*
Research grant. Working with the Algebra Department.

**2015–Now LibreIM**
*Web page: http://tux.ugr.es/dgiim/*
Founder of a community of Math&CS students. I write for a cooperative blog, and mantain a Q&A site. We organize seminars where I have lectured about Haskell, Category Theory and Git.

# awards

| | | |
|---|---|---|
| 2012–2013 | **International Mathematical Olympiad (IMO)** | Mar del Plata, Argentina |

National **Gold Medal**.
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 very interested in the foundations of programming languages, lambda calculus and dependently typed languages such as Agda and Coq.