CV - Jan Mas Rovira

Personal Data

Birth:	12th of January 1993, Vic, Catalonia.
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Academic History

Current September 2018	Master in Pure and Applied Logic *University of Barcelona*
July 2018	Master in Innovation and Research in Informatics (Spec. Advanced Computing), 120 ECTS *Polytechnic University of Catalonia with an exchange period of 1 year (60 credits) at Chalmers University of Technology, Sweden.* Grade: **9.1/10**
July 2015	Bachelor's Degree in Informatics Engineering *Polytechnic University of Catalonia* Grade: **8.12/10**

Languages

Catalan	Native
English	Fluent
English	Fluent

Projects

July 2018 — Master's thesis: Automatic Inductive Equational Reasoning
Report: https://gitlab.com/janmasrovira/master-thesis-doc/blob/master/final-report.pdf
Source code: https://gitlab.com/janmasrovira/phileas
Grade: 9.5
Description: This projects presents Phileas, an automatic theorem prover capable of inductively proving equations on Haskell terms.
The prover itself is implemented in Haskell.
This project was supervised by Albert Rubio Gimeno.

September 2017 — Collaboration with the CakeML project.
https://cakeml.org/
Description: CakeML is a formally verified compiler for a substatious subset of Standard ML. I collaborated with the CakeML team at Chalmers University under the supervision of Magnus Myreen in the efforts to optimize a compilation stage of the CakeML compiler.

July 2017 — Co-author of a research paper.
https://www.researchgate.net/publication/318200476_Jutgeorg_Characteristics_and_Experiences
Description: This paper explains the experiences of using an online judge developed and used in teaching at the Polytechnic University of Catalonia. My contribution was the implementation of a Haskell code analyzer that checks some constraints on the code that the students submit.

March 2017 — An OCaml Backend for Agda.
https://gitlab.com/janmasrovira/agda2mlf
Description: Initial efforts to implement an OCaml backend for the Agda programming language. Development has been continued in the official Agda repository.
This project was done in conjunction with Frederik H. Iversen under the supervision of Ulf Norell at Chalmers University of Technology.

July 2015 — Bachelor's thesis: Automatic Static Analysis of Haskell Programs.
Report: (In Catalan) https://upcommons.upc.edu/handle/2117/79657?locale-attribute=ca
Source code: https://gitlab.com/janmasrovira/haskal
Grade: 8.8
Description: This project presents the implementation of an automatic Haskell code analyzer capable of transforming certain functions into a tail-recursive function (under some assumptions). Additionally, it can also find in some cases a strictly recursively-decreasing arithmetical expression that proves termination.
This project was supervised by Albert Rubio Gimeno.