

Statement of interest

Mario Román

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To the organising comitee of EUTypes Summer School,

I am a student of two bachelor degrees in Mathematics and Computer Science. I am working on homological algebra and category theory. My research is supported by an introduction to research grant of the Spanish government. I am writing my bachelor thesis on lambda calculus and category theory applied to functional programming.

My primary interest lies in the field of type systems as foundations of mathematics and logic. I started learning Haskell three years ago, at the same time I began learning category theory. Since then, I have implemented lambda calculus-based interpreters on Haskell, written proofs on Coq and started studying about type theory. I am very interested in the introduction to Agda, and the courses about the logic of type systems and Homotopy Type Theory.

This summer school would be a great opportunity for me to gain some advanced training on type theory, proof assistants and their underlying mathematics; to help me decide what specific topics of research I would like to work on during my career, and to network with students and professors working on this field.

Sincerely, Mario Román.