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I started my research activity in 1988 as scholar in the computer science department at the UPC. In 1990 I got a teaching assistant position and in 1997 I became Associate Professor in the same department. Since April 2008 I am Professor in Computer Science, from then to May 2019 at the UPC and since then in the department of Sistemas Informáticos y Computación at the UCM. I got my PhD in Computer Science in 1994. I have 5 positive research evaluations ("sexenios"; last one in 2020) and 5 positive teaching evaluations ("quinquenios"; last one in 2020).

My research has been devoted to several research areas like program analysis and verification, constraint solving, satisfiability modulo theories (SMT), automated deduction, rewrite systems or higher-order systems, and more recently I have started two new research lines on compilers and on smart contracts. I have published papers on all these topics in high impact international journals and conferences. Along my career I have collaborated with many international researchers and I have supervised four PhD thesis. I am coauthor of around 70 research papers among which I would like to highlight the chapter in the Handbook of Automated Reasoning entitled "Paramodulation-Based Theorem Proving" coauthored with Robert Nieuwenhuis and the paper "Polymorphic Higher-Order Recursive Path Orderings" published in the Journal of the ACM coauthored with Jean-Pierre Jouannaud.

I have been invited speaker in two international conference and in several prestigious international seminars and Program Committee member of more than 30 international events. From 2009 until 2021 I have been Chair of the Steering Committee of the International Termination Competition, which I created in 2003.

I have been involved in National and European research projects since I started my research activity. In 2004 I started to lead research projects and I have got funded national projects since then in six consecutive calls in the Spanish "Plan Nacional". I have also been involved in research contracts with Ethereum, Intel and the "Asociación de Clubes de Baloncesto", and I am currently leading a project with private funding devoted to the development of the circom programming language and its compiler.