

# Antonio Franques

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## Education

2015–present	<b>University of Illinois at Urbana-Champaign</b> , Urbana, IL Ph.D. Computer Science Advisor: Josep Torrellas Area: Architecture, Parallel Computing, Systems.
2014–2015	<b>Norwegian University of Science and Technology (NTNU)</b> , Norway B.S. Telecommunications Engineering Study abroad program (during 4th year of B.S. studies) Granted by: Erasmus Fellowship (European Union).
2011–2015	<b>Polytechnic University of Valencia (UPV)</b> , Spain B.S. Telecommunications Engineering, <i>Summa Cum Laude</i> Thesis: Numerical methods for nonlinear modeling (Grade: 10.0/10.0) Advisors: Juan Ramón Torregrosa, Alicia Cordero

## Awards and Honors

2015	<b>Award for the second-best academic record (awarded among all graduating students)</b> , Class of 2015 School of Telecommunications Engineering, UPV.
2015	<b>B.S. Thesis Distinction (highest grade with honors)</b> , Class of 2015 School of Telecommunications Engineering, UPV.
2011–2015	<b>B.S. Courses Distinctions (highest grades with honors)</b> : Computer Architecture, Microprocessors Based Systems, Programming, Computer Basics, Fundamentals of Telematics, Design of Telematic Services, Local Area Networks, Telematic Systems for Information Management, Mathematics I, Physics I and II, Electronic Circuits, Electronic Devices, Communication Theory, Probability and Random Signals. School of Telecommunications Engineering, UPV.

## Research Interests

Computer architecture, network on chip, high-frequency wireless communications, multicore and parallel architectures, programmability of parallel systems, computational mathematics.

## Research Experience

2015–present	<b>Graduate Research Assistant</b> , i-acoma group, UIUC Advisor: Josep Torrellas Topic: Application of high-frequency wireless technology in multicore architectures.
2013–2014	<b>Fellowship in Computational Mathematics</b> , UPV Advisors: Juan Ramón Torregrosa, Alicia Cordero Topic: Development of new fast-convergence (high-order) iterative methods for obtaining the roots of a nonlinear equations system.

## Publications

May 2016	Alicia Cordero, Antonio Franques and J.R. Torregrosa, “ <i>Chaos and Convergence of a family generalizing Homeier’s method with damping parameters</i> ”, Nonlinear Dynamics, doi: 10.1007/s11071-016-2807-0.
June 2015	Alicia Cordero, Antonio Franques and J.R. Torregrosa, “ <i>Multidimensional Homeier’s generalized class and its application to planar 1D Bratu problem</i> ”, SeMA Journal, doi: 10.1007/s40324-015-0037.
May 2015	Alicia Cordero, Antonio Franques and J.R. Torregrosa, “ <i>Numerical solution of turbulence problems by solving Burgers’ equation</i> ”, Algorithms 8 (2015) 224-233, doi: 10.3390/a8020224.
Sept. 2014	Alicia Cordero, L. Feng, Antonio Franques and J.R. Torregrosa, “ <i>Stability of a Fourth-Order Family of Iterative Methods for Solving Nonlinear Problems</i> ”, Proceedings of the Ninth International Conference on Engineering Computational Technology, Naples, Italy, doi:10.4203/ccp.105.33.

## Languages

English	Fluent
Spanish	Native
Catalan	Native