Education

2015-Present

University of Illinois at Urbana-Champaign, Urbana, IL



Ph.D. Computer Science Advisor: Professor Josep Torrellas

Area: Computer Architecture, Parallel Computing, Systems

2011 – 2015

Technical University of Valencia (UPV), Spain



B.S. Telecommunications Engineering, GPA: 8.9/10, Ranked 2nd in graduating class

Thesis: Numerical Methods for Nonlinear Modeling (Grade: 10/10) Advisors: Professors Juan Ramón Torregrosa and Alicia Cordero

Overseas studies: Norwegian University of Science and Technology (NTNU), Fall 2014

Publications

May 2016 | Alicia Cordero, Antonio Franques and J.R. Torregrosa, "Chaos and Convergence of a

family generalizing Homeier's method with damping parameters", Nonlinear Dynamics, doi:

10.1007/s11071-016-2807-0.

June 2015 | Alicia Cordero, Antonio Franques and J.R. Torregrosa, "Multidimensional Homeier's

 $generalized \ class \ and \ its \ application \ to \ planar \ 1D \ Bratu \ problem", \ SeMA \ Journal, \ doi:$

10.1007/s40324-015-0037.

May 2015 | Alicia Cordero, **Antonio Franques** and J.R. Torregrosa, "Numerical solution of turbulence

problems by solving Burgers' equation", Algorithms 8 (2015) 224-233, doi: 10.3390/a8020224.

Sept. 2014 Alicia Cordero, L. Feng, **Antonio Franques** and J.R. Torregrosa, "Stability of a Fourth-Order Family of Iterative Methods for Solving Nonlinear Problems". Proceedings of the

Order Family of Iterative Methods for Solving Nonlinear Problems", Proceedings of the Ninth International Conference on Engineering Computational Technology, Naples, Italy,

doi:10.4203/ccp.105.33.

Research Experience

2015–Present | Graduate Research Assistant, i-acoma group, UIUC

Area: Computer Architecture

Topic: Application of extremely high frequency wireless on-chip communications in massive

multi-core architectures

Advisor: Professor Josep Torrellas

2013–2015 Undergraduate Research Assistant, UPV

Area: Computational Mathematics

Topic: Design of new fast-convergence (high-order) iterative methods for obtaining the roots

of a nonlinear system of equations

Advisors: Professors Juan Ramón Torregrosa and Alicia Cordero

Research Interests

Computer architecture, network on chip, extremely high frequency wireless communications, multi-core and parallel architectures, programmability of parallel systems, computational mathematics

Industry Experience

Summer 2010

City Council of Montblanc, Spain



Systems and Network Administrator Intern

Worked on maintenance of Cisco devices, database management (SQL), and front-end web development (PHP, Javascript, CSS, HTML).

Teaching Experience

Fall 2016 | CS/ECE 439: Wireless Networks, UIUC

Teaching Assistant

Provided support and advice to 40+ students during planning and implementation of projects.

Projects

(A more thorough list can be found on my personal website: afranques.com/projects)

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2016Present	Quovis. Android App for saving, organizing, and retrieving users' favorite locations.
2015–Present	Lazarius . Android App for helping reduced-vision people move around cities in real time. Won second prize and Telefonica Award in the 2015 Spanish edition of Hack For Good.
2014–Present	2 Park . Android App for managing parking spaces on the street in real time. Won Telefonica Award in the 2014 Spanish edition of Hack For Good.

Awards, Honors and Scholarships

2015	Award for the Second-Best Academic Record , Class of 2015 School of Telecommunications Engineering, UPV
2015	Undergraduate Thesis Distinction (highest grade with honors) School of Telecommunications Engineering, UPV
Fall 2014	Erasmus Programme Grant European Commission.
2013-2014	Undergraduate Research Fellowship Spanish Ministry of Education, Culture and Sport.
2011–2015	15 Undergraduate Class Distinctions (highest grades in class with honors) School of Telecommunications Engineering, UPV.
2011–2015	4-Year Undergraduate Full Tuition Scholarship Spanish Ministry of Education, Culture and Sport.

Service

2013 | UPV Incoming Exchange Students Mentor

Languages

English	Fluent
Spanish	Native
Catalan	Native