

Education

2015–Present



University of Illinois at Urbana-Champaign

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 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, University of Illinois Urbana-Champaign

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, Technical University of Valencia

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

Maintenance of Cisco devices, database management (SQL), and front-end web development (PHP, Javascript, CSS).

Teaching Experience

Fall 2016

CS/ECE 439: Wireless Networks, UIUC

Teaching Assistant

Occasional lecturer. Provided support and advice to 40+ students throughout development process of class projects.

Projects

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

2016–Present

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

2017

ISCA Travel Grant

2015

Award for the Second-Best Academic Record, Class of 2015
Technical University of Valencia

2015

Undergraduate Thesis Distinction
Technical University of Valencia

Fall 2014

Erasmus Programme Grant
European Commission.

2013–2014

Undergraduate Research Fellowship
Spanish Ministry of Education.

2011–2015

4-Year Undergraduate Full Tuition Scholarship
Spanish Ministry of Education.

Service

2013

Incoming Exchange Students' Mentor
Technical University of Valencia

Languages

English	Fluent
Spanish	Native
Catalan	Native