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Antonio Franques

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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 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 Occasional lecturer. Also 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)

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

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