

Education

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| 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 | Polytechnic University of Valencia (UPV) , Spain
B.S. Telecommunications Engineering, GPA: 8.9/10, Ranking: 2nd
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 |

Awards and Honors

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| 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 |

Research Interests

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

Research Experience

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| 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 |

Publications

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|------------|--|
| 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. |