

# Curriculum Vitae

Edmundo J. Huertas

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## PERSONAL DATA



**Name** Edmundo José  
**Surnames** Huertas Cejudo  
**Birthplace** Madrid, Spain  
**Birthdate** May 1, 1970

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## EDUCATION

- 2012** **Ph.D. in progress, Mathematical Engineering** at the Mathematics Department of University Carlos III of Madrid (UC3M). PhD Advisor: Francisco Marcellán Español. Co-advisor: Héctor E. Pijeira Cabrera.
- July'2009** **M.Sc. in Mathematical Engineering (*Máster Oficial en Ingeniería Matemática*)** at the University Carlos III of Madrid (UC3M), Research Field: Mathematical Foundations in Engineering. 120 Credits (ECTS).
- Sept'2005** **Technical Engineer in Computer Sciences (*Ingeniero Técnico en Informática de Sistemas*)** at the Spanish Open University (UNED). 234 Credits.
- March'1996** **B.Sc. in Physics (*Licenciado en Ciencias Físicas*)** at the Autónoma University of Madrid (UAM), Research Field: Fundamental Physics.

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## REFEREED JOURNAL PUBLICATIONS

- Title** [\*Zeros of O.P. Generated by Canonical Perturbations of Measures.\*](#)
- Authors** E. J. Huertas, F. Marcellán and F. R. Rafaeli.
- Journal** Applied Mathematics and Computation (Elsevier) - ISSN: 0096-3003.
- Impact F.** **1.536** - © Thomson Reuters, 2010 Journal Citation Reports®.
- Status** Published, Volume **218**, Issue 13 (2012), 7109-7127.
- Position** **1st quarter** of the JCR® Ranking - Category MATHEMATICS, APPLIED.
- DOI** 10.1016/j.amc.2011.12.073
- 
- Title** [\*Asymptotic Properties of Laguerre-Sobolev-type Orthogonal Polynomials.\*](#)
- Authors** H. Dueñas, E. J. Huertas and F. Marcellán.
- Journal** Numerical Algorithms (Springer) - ISSN: 1017-1398.
- Impact F.** **0.784** - © Thomson Reuters, 2010 Journal Citation Reports®.
- Position** **2nd quarter** of the JCR® Ranking - Category MATHEMATICS, APPLIED.
- Status** Published, Volume **60**, Number 1 (2012), 51-73.
- DOI** 10.1007/s11075-011-9511-4
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**Title** [\*Analytic Properties of Laguerre-type Orthogonal Polynomials.\*](#)  
**Authors** H. Dueñas, E. J. Huertas and F. Marcellán.  
**Journal** Integral Transforms and Special Functions (Taylor & Francis) - ISSN: 1065-2469.  
**Impact F.** **0.594** - © Thomson Reuters, 2010 Journal Citation Reports®.  
**Position** **2nd quarter** of the JCR® Ranking - Category MATHEMATICS.  
**Status** Published, Volume **22**, Issue 2 (2011), 107-122.  
**DOI** 10.1080/10652469.2010.499737

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**Title** [\*On Orthogonal Polynomials With Respect To Certain Discrete Sobolev Inner Product.\*](#)  
**Authors** F. Marcellán, R. Xh. Zejnullaju, B. Xh. Fejzullahu, E. J. Huertas.  
**Journal** Pacific Journal of Mathematics - ISSN: 0030-8730.  
**Impact F.** **0.549** - © Thomson Reuters, 2010 Journal Citation Reports®.  
**Position** **3rd quarter** of the JCR® Ranking - Category MATHEMATICS.  
**Status** Accepted for publication. **In press.**

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## SUBMITTED PAPERS - UNDER REVISION

**Title** *An Electrostatic Model for Zeros of Laguerre Polynomials.*  
**Authors** Edmundo J. Huertas, Francisco Marcellán and Héctor Pijeira.  
**Journal** Proceedings of the American Mathematical Society  
**Status** Submitted, December 2011. Paper under revision.

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**Title** *A Finite Class of Orthogonal Functions.*  
**Authors** Mohammad Masjed-Jamei, Francisco Marcellán and Edmundo J. Huertas.  
**Journal** Journal of Mathematical Analysis and Applications (Elsevier)  
**Status** Submitted, October 2011. Paper under revision.

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## RESEARCH STAYS

**City** Atlanta, GEORGIA (GA) U.S.A.  
**University** Georgia Institute of Technology (GATECH), School of Mathematics.  
**Length** March and April 2010 - 2 months.  
**Advisor** Jeffrey S. Geronimo

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**City** Leuven, BELGIUM  
**University** Katholieke Universiteit Leuven (KUL), Dept. of Mathematics.  
**Length** May, June and July 2011 - 3 months.  
**Advisor** Professor Walter Van Assche

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## PARTICIPATION IN RESEARCH PROJECTS

**Title** Orthogonality, Approximation Theory, and its Applications in Science and Technology.  
**Code** MTM2009-12740-C03-01.  
**Center** Ministry of Science and Innovation (MICINN) - Government of Spain.  
**Period** January, 2010 - December, 2012.

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## GRANTS AND AWARDS

- 2011** Mobility Predoctoral Grant, Research Program, University Carlos III of Madrid (Spain).  
**2010** Mobility Predoctoral Grant, Research Program, University Carlos III of Madrid (Spain).  
**2010-2012** Webmaster of the Mathematics Department of University Carlos III of Madrid (Spain).  
**2009-2012** Research Fellow (PIF-UC3M ref. 01-0910), University Carlos III of Madrid (Spain).  
**2007-2009** Grant Program for Master's Degrees at Maths Department (ref. M02-0708) University Carlos III of Madrid (Spain).

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## WORK AND TEACHING EXPERIENCE

- From 2007 to present** **TEACHING ASSISTANT**, *University Carlos III of Madrid*, Teaching: Linear Algebra I, Numerical Methods for Engineers, Several Variables Calculus (Calculus II) and Basic Mathematics Course for Engineers.
- From 2004 to 2007** **PROFESSOR OF PHYSICS**, *Secondary School Colegio Las Rosas, Madrid*, Head of Department of Computer Science and New Technologies. Professor of Physics, Chemistry, Technology and Computer Sciences.
- From 1998 to 2004** **PROGRAMMER ANALYST**, *Computer Consulting in Banking Sector.*, Companies: EDS, PROFIT, CAP-GEMINI. Programming in COBOL/DB2 for IBM Mainframe Systems OS390. Consulting for Barclays Bank, BBVA, BSCH, Telefonica, Bank of Santander.

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## CONFERENCE PRESENTATIONS

- Conference** Workshop on Generalized Special Functions of Mathematical Physics 2012.  
**Poster** Electrostatic behavior of zeros of Laguerre-type orthogonal polynomials.  
**Place** Granada (Spain), from January 26 to 27, 2012.  
**Organizers** University of Granada.
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- Conference** PEJIM 2011 - Primer Encuentro de Jóvenes Investigadores de La Laguna.  
**Talk** Una visión general sobre la interpretación electrostática de los ceros de polinomios ortogonales.  
**Place** La Laguna, Tenerife (Spain), from September 28 to 30, 2011.  
**Organizers** University of La Laguna - ULL.
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- Conference** OPSFA 2011 - Orthogonal Polynomials, Special Functions and Applications.  
**Poster** Asymptotic Properties of Laguerre-Sobolev type Orthogonal Polynomials.  
**Place** Leganés, Madrid (Spain), from August 29 to September 2, 2011.  
**Organizers** University Carlos III of Madrid - UC3M.
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- Conference** EIBPOA I - Primer Encuentro Iberoamericano de Polinomios Ortogonales y Aplicaciones.  
**Poster** MOPS with respect to Certain Perturbed Measures of Unbounded Support.  
**Place** Bogotá (Colombia), from June 1 to 3, 2011.  
**Organizers** Universidad Nacional de Colombia - UNAL.
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- Conference** School and Workshop on Topics in operator algebras and some applications.  
**Poster** New Results on Laguerre-type Orthogonal Polynomials.  
**Place** Madrid (Spain), from September 13 to 17, 2010.  
**Organizers** University Complutense of Madrid - UCM.

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**Conference** I Jaén Conference on Approximation Theory.  
**Talk** Zeros of O.P. Generated by Canonical Perturbations of the Standard Measure.  
**Place** Úbeda, Jaén (Spain), from July 4 to 9, 2010.  
**Organizers** University of Jaén.

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**Conference** 10th CMMSE International Conference Computational and Mathematical Methods in Science and Engineering.  
**Talk** New Results on Laguerre-type Orthogonal Polynomials.  
**Place** Almería (Spain), from June 26 to 30, 2010.  
**Organizers** University of Salamanca and University of Almería.

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## LANGUAJES

**English** (2010) University of Cambridge ESOL - First Certificate in English (FCE) - B2 of the Common European Framework of Reference for Languages (CEFR).  
**French** Basic knowledge.  
**Spanish** Native.

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## EXPERIENCE IN ORGANIZATION OF R & D ACTIVITIES

**Conference** OPSFA 2011 - Orthogonal Polynomials, Special Functions and Applications.  
**Scope** International.  
**Place** Leganés, Madrid (Spain), from August 29 to September 2, 2011.  
**Organizers** University Carlos III of Madrid - UC3M.  
**Activity** Membership of the Local Congress Committee.

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**Conference** EIBPOA I - Primer Encuentro Iberoamericano de Polinomios Ortogonales y Aplicaciones.  
**Scope** International.  
**Place** Bogotá (Colombia), from June 1 to 3, 2011.  
**Organizers** Universidad Nacional de Colombia - UNAL.  
**Activity** Fully involved in the organization of the conference. I created the original logo of the event and developed the website: <http://sites.google.com/site/eibpoa2011/>

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## PROFESSIONAL MEMBERSHIPS & WEB

Judicial expert in computer sciences by the COFIS (Legal expert who provides special legal information or advice to a judge in a law suit).  
Fellow of COFIS (Spanish Official College of Physicists).  
Fellow of RSEF (Spanish Royal Society of Physics).

**WebPage** <http://matematicas.uc3m.es/index.php/dpto-people/ecarons-menu/ehuertas-menu>

**WebPage** <http://gama.uc3m.es/index.php/ehuertas.html>

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## SKILLS, ABILITIES & COURSES

**Operative Systems** GNU/Linux (UBUNTU, Debian, Mandriva, SuSe, Red Hat, etc.), Windows (all versions), OS2warp, Mainframe MVS/OS390.

**Programming** MatLab®, Wolfram ®Mathematica, Maple®, COBOL, Modula-2, Fortran, C/C++, Java, Prolog, VHDL, Visual-Basic, html, Joomla.

**DataBases** DB2, MySQL, IDMS.

**Typesetting** Scientific WorkPlace® and L<sup>A</sup>T<sub>E</sub>X

**2010 Seguridad en Redes y Sistemas de Información**, UNED (300 hrs).

**2010 Using Interactive Techniques and Visual Aids English for Lecturers**, Universidad Carlos III of Madrid (8 hrs).

**2009 14th European Intensive Course on Complex Analysis and Applications to Partial Differential Equations**, Universidade de Coimbra (18 hrs).

**2007 Introduction to Linux (UBUNTU)**, CNICE (30 hrs).

**1997 Teaching certificate in Physics and Chemistry (Certificado de Aptitud Pedagógica CAP)**, University Complutense of Madrid (180 hrs).

**1996 Programmable industrial automation**, University Politécnica of Madrid (250 hrs).

**1992 Specialist in Solar Energy Systems**, by CENSOLAR, Seville, Spain (750 hrs).