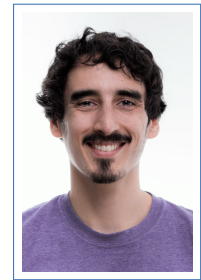


# Adrián Amor Martín

*Ph.D. in Multimedia and Communications*

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📄 [aamorm.github.io](https://github.com/aamorm)



## Résumé

I am an **assistant professor** at University Carlos III of Madrid from february 2021. I received a Ph.D. degree in Multimedia and Communications by the University Carlos III of Madrid in 2018 with the highest grade (**cum laude**). Also, I received the M.Sc. degree in Multimedia and Communications by the same university in 2014 with an average grade of 9.2, and I became a telecommunications engineer in 2012 with an average grade of 8.8 (and the final project was awarded by the professional college in Spain). I have a positive evaluation as **Profesor Ayudante Doctor** given by the spanish agency ANECA on 2020. As a teaching assistant, I have imparted **372 teaching hours** in different Telecommunication bachelor and master degrees at the University Carlos III of Madrid, and I have imparted **30 teaching hours** in different Systems Engineering subjects at the Saarland University. My research interests are **computational electromagnetics** and antenna measurements. My Ph.D. dissertation included the development and implementation of techniques (e.g. domain decomposition methods) to develop a finite element code with hp adaptivity and different element shapes. This work has been funded by **scholarships (FPU, PIF)** obtained on a **competitive basis**. I am part of **ten indexed papers** and **26 conference papers**: I am the first author in two Q1 and three Q3 JCR papers and fifteen conference papers and I am a co-author of five more papers (two Q1, two Q2, and one Q4) and twelve conference papers. I have been a **postdoctoral researcher** at Saarland University, in Germany, hosted by Prof. Dyczij-Edlinger, from 2019 to 2020. I have been a **visiting scholar** at The Ohio State University hosted by Prof. Jin-Fa Lee for seven months, and at the University of Macau for two months. I have also **advised one Ph.D. thesis**, two Master thesis and one Bachelor thesis as director. I have been part of the team at **11 projects** at the University Carlos III of Madrid

## Education

- 2014 **Multimedia and Communication Interuniversity Ph.D. Program**, *Universidad Carlos III de Madrid*.
- 2018 *Carlos III de Madrid*.  
Cum laude.
- 2012 **Interuniversity Master in Multimedia and Communications**, *Universidad Carlos III de Madrid*.
- 2014 *Carlos III de Madrid*.  
Average grade: 9.18 out of 10.
- 2007 **M.S. in Electrical Engineering (*Ingeniero de Telecomunicación*)**, *Universidad Carlos III de Madrid*.
- 2012 *Carlos III de Madrid*.  
Average grade: 8.8 out of 10.
- 2005 **International Baccalaureate Diploma Programme**, *I.E.S. Carlos III, Toledo*.
- 2007 Grade: 37 out of 45.

## Work Experience

- Feb 2021 **Assistant Professor**, *Universidad Carlos III de Madrid*, Signal Theory and Communications Department, Position obtained in a public call.  
Teaching activities and predoctoral research.
- Jan 2019 **Postdoctoral Fellow**, *Universität des Saarlandes*, Lehrstuhl für Theoretische Elektrotechnik, postdoctoral position under the guidance of Prof. Romanus Dyczij-Edlinger.  
Dec 2020 Teaching activities and postdoctoral research.
- Sep 2015 **Research Fellow**, *Universidad Carlos III de Madrid*, Signal Theory and Communications Department, predoctoral scholarship holder under the program *Formación del Profesorado Universitario* of the Ministry of Education, Culture and Sport with reference FPU14/03743.  
Jan 2019 Teaching activities and predoctoral research.
- Oct 2014 **Research Fellow**, *Universidad Carlos III de Madrid*, Signal Theory and Communications Department, predoctoral scholarship holder of the Universidad Carlos III de Madrid with reference PIF UC3M 01-1415.  
Sep 2015 Teaching activities and predoctoral research.
- Sep 2012 **Research Fellow**, *Universidad Carlos III de Madrid*, Signal Theory and Communications Department, predoctoral scholarship holder for studying the Interuniversity Master in Multimedia and Communications.  
Sep 2014 Teaching activities, predoctoral research and M.S.
- Mar 2011 **Participation in a research & development project**, *Universidad Carlos III de Madrid*, Department of Telematic Engineering, project: Netlab, use cases for interconnected testbeds and living labs..  
Apr 2011

## Scientific publications

- 2021 Adrian Amor-Martin, Luis E. Garcia-Castillo, and Jin-Fa Lee. Study of Accuracy of a Non-Conformal Finite Element Domain Decomposition Method. 429:109989, doi: [10.1016/j.jcp.2020.109989](https://doi.org/10.1016/j.jcp.2020.109989), JCR: **2.985 (2019)**, quartile Q1, 4/55 (Physics, mathematical).
- 2020 José M. Badía, Adrian Amor-Martin, Jose A. Belloch, and Luis E. García-Castillo. GPU Acceleration of a Non-Standard Finite Element Mesh Truncation Technique for Electromagnetics. 8:94719–94730, doi: [10.1109/ACCESS.2020.2993103](https://doi.org/10.1109/ACCESS.2020.2993103), JCR: **3.745 (2019)**, quartile Q1, 61/266 (Engineering, Electrical and Electronic).
- 2020 **Adrian Amor-Martin**. A testbench of arbitrary accuracy for electromagnetic simulations. 30(10):e22342, doi: [10.1002/mmce.22342](https://doi.org/10.1002/mmce.22342), JCR: **1.528 (2019)**, quartile Q3, 184/266 (Engineering, Electrical and Electronic).
- 2019 Jose A. Belloch, Adrian Amor-Martin, Daniel Garcia-Donoro, Francisco J. Martínez-Zaldívar, and Luis E. Garcia-Castillo. On the use of many-core machines for the acceleration of a mesh truncation technique for FEM. pages 1–11, doi: [10.1007/S11227-018-02739-9](https://doi.org/10.1007/S11227-018-02739-9), JCR: **2.469 (2019)**, quartile Q2, 123/266 (Engineering, Electrical and Electronic).
- 2019 Adrian Amor-Martin and Luis E. Garcia-Castillo. Construction of higher-order curl-conforming finite elements and its assembly. 29(8):e21753, doi: [10.1002/MMCE.21753](https://doi.org/10.1002/MMCE.21753), JCR: **1.528 (2019)**, quartile Q3, 184/266 (Engineering, Electrical and Electronic).

- 2018 Francisco-Javier González-Serrano, Adrian Amor-Martin, and Jorge Casamayón-Antón. Supervised machine learning using encrypted training data. 17(4):365–377, doi: [10.1007/S10207-017-0381-1](https://doi.org/10.1007/S10207-017-0381-1), JCR: **1.822 (2018)**, quartile Q2, 42/105 (Computer Science, Theory and Methods).
- 2017 Francisco-Javier González-Serrano, Ángel Navia-Vázquez, and Adrian Amor-Martin. Training support vector machines with privacy-protected data. 72:93–107, doi: [10.1016/J.PATCOG.2017.06.016](https://doi.org/10.1016/J.PATCOG.2017.06.016), JCR: **3.965 (2017)**, quartile Q1, 25/266 (Engineering, Electrical and Electronic).
- 2016 Daniel Garcia-Donoro, Sioweng Ting, Adrian Amor-Martin, and Luis E. Garcia-Castillo. Analysis of planar microwave devices using higher order curl-conforming triangular prismatic finite elements. 58(8):1794–1801, doi: [10.1002/MOP.29910](https://doi.org/10.1002/MOP.29910), JCR: **0.731 (2016)**, quartile Q4, 216/262 (Engineering, Electrical and Electronic).
- 2016 Adrian Amor-Martin, Luis E. Garcia-Castillo, and Daniel Garcia-Donoro. Second-Order Nédélec Curl-Conforming Prismatic Element for Computational Electromagnetics. 64(10):4384–4395, doi: [10.1109/TAP.2016.2597640](https://doi.org/10.1109/TAP.2016.2597640), JCR: **2.957 (2016)**, quartile Q1, 61/262 (Engineering, Electrical and Electronic).
- 2015 Adrian Amor-Martin, Ignacio Martinez-Fernandez, and Luis E. Garcia-Castillo. Posidonia: A tool for HPC and remote scientific simulations [EM Programmer’s Notebook]. 57(6):166–177, doi: [10.1109/MAP.2015.2481824](https://doi.org/10.1109/MAP.2015.2481824), JCR: **0.896 (2015)**, quartile Q3, 165/257 (Engineering, Electrical and Electronic).

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### Director of Ph.D. Thesis

- 2020 **Director of Ph.D. Thesis for Multimedia and Communications program**, Ignacio Martínez Fernández, “Análisis Electromagnético de Estructuras Finitas de Tipo Periódico mediante el Método de los Elementos Finitos”, submitted on 12/09/2020. Universidad Carlos III de Madrid

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### Director of Bachelor and Master Thesis

- Feb 2017 **Director of Master Thesis for Master in Telecommunications Engineering**,  
 Oct 2017 Daniel Gutiérrez Sanz, “Design of a continuous wave FM radar for teaching purposes”. Universidad Carlos III de Madrid
- Feb 2015 **Director of Bachelor Thesis for Bachelor’s Degree in Audiovisual System Engineering**, Carlos Romero Castro, “Comparative Study of Different Solvers in a Finite Element Software”.  
 May 2015 Universidad Carlos III de Madrid
- Sep 2013 **Director of Master Thesis for Master in Telecommunications Engineering**,  
 Oct 2014 Cristina García Muñoz, “Web Platform for Electromagnetic Simulation in a Scientific Computing Cluster”.  
 Universidad Carlos III de Madrid

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### Participation in Research & Development Projects

- Jan 2019 **Researcher**, *MARTINLARA-CM: Millimeter wave Array at Room Temperature*  
 Dec 2020 *for INstruments in LEO Altitude Radio Astronomy*, funded by Madrid Regional Government.  
 Principal Investigator: Luis Enrique García Muñoz.

- Jan 2017 **Researcher**, *Simulador electromagnético para Entorno HPC*, funded by Spanish  
 Dec 2019 Ministry of Economy and Competitiveness, 119.427€.  
 Principal Investigator: Luis E. García Castillo.
- Oct 2014 **Researcher**, *Photonic and Radiofrequency Instrumental Developments and Applica-*  
 Dec 2018 *tion to Spatial Geodesy Experimental Techniques (DIFRAGEOS)*, funded by Madrid  
 Regional Government, 317.671€.  
 Principal Investigator: Magdalena Salazar Palma.
- Jan 2011 **Researcher**, *Análisis de estructuras periódicas finitas regulares e irregulares mediante*  
 Dec 2014 *técnicas de descomposición de dominios en paralelo con adaptatividad hp automática*,  
 funded by Spanish Ministry of Science and Innovation, 168.432€.  
 Principal Investigator: Luis E. García Castillo.
- Oct 2014 **Researcher**, *Antenna measurements from different companies with Starlab Satimo*  
 Feb 2019 *provided by Telefónica*, funded by different companies, Laboratory Supervisor.  
 Principal Investigator: Daniel Segovia Vargas.
- Jan 2016 **Researcher**, *RKAF Radar Cross Section Offset*, funded by Airbus, 31.052€.  
 Jan 2017 Principal Investigator: Luis E. García Castillo.
- Jan 2018 **Researcher**, *Diseño e implementación de antenas directivas en la banda GPS para la*  
 Jul 2018 *industrialización del producto NOJAMZONE de CENTUM SOLUTIONS S.L.*, funded  
 by Centum Solutions S.L., 30.400€.  
 Principal Investigator: Daniel Segovia Vargas.
- Oct 2014 **Researcher**, *Contrato marco para la prestación de servicios tecnológicos, el área de*  
 Oct 2015 *Simulación Numérica de Dinámica de Fluidos*, funded by Indra, 16.040€.  
 Principal Investigator: Luis E. García Castillo.
- Dec 2013 **Researcher**, *Electromagnetic simulation of antennas*, funded by INDRA, 6665€.  
 Dec 2014 Principal Investigator: Luis E. García Castillo.
- Mar 2015 **Researcher**, *Analysis of hybrid RFID 3DCOIL (high and low frequency)*, funded by  
 Abr 2015 Fundació Privada Centre CIM, 3000€.  
 Principal Investigator: Luis E. García Castillo.
- Jun 2014 **Researcher**, *CAD electromagnetic simultion of 3DCOIL coil*, funded by Fundació  
 Jul 2014 Privada Centre CIM, 3000€.  
 Principal Investigator: Luis E. García Castillo.

## Stays in foreign research centers

- Jan 2019 **Saarland University**, *Postdoctoral researcher*, Host: Romanus Dyczij-Edlinger.
- Aug 2017 **The Ohio State University**, *Short stay (120 days) in ESL (ElectroScience Labora-*  
 Dec 2017 *tory)*, Host: Jin-Fa Lee, Funding provided by the University Carlos III de Madrid..
- Sep 2016 **The Ohio State University**, *Short stay (90 days) in ESL (ElectroScience Laboratory)*,  
 Dec 2016 Host: Jin-Fa Lee, Funding provided by the Spanish Government..
- Jun 2015 **University of Macau**, *Short stay (45 days) in Computational Electromagnetism*  
 Jul 2015 *Laboratory of University of Macau*, hosted by Professor K.W. Tam, funded by Uni-  
 versidad Carlos III de Madrid with a scholarship with a competitive procedure (1610  
 euros)..

## Teaching experience

- Apr 2020 **Tutorial teaching in Introduction to Electromagnetic Fields-Simulation I**  
Jun 2020 **(Bachelor level)**, *Saarland University*, Master in Telecommunications Engineering,  
15 hours.
- Nov 2019 **Tutorial teaching in Computational Electromagnetics I (Master level)**,  
Feb 2020 *Saarland University*, Master in Telecommunications Engineering, 15 hours.
- Sep 2018 **Responsible for laboratory practices in Radio Frequency and Antenna**  
Dec 2018 **Subsystems**, *Universidad Carlos III de Madrid*, Master in Telecommunications  
Engineering, 5.5 ECTS credits.
- Feb 2018 **Responsible for small theory groups in Linear Networks Analysis and**  
Jun 2018 **Synthesis**, *Universidad Carlos III de Madrid*, Bachelor's Degree in Audiovisual  
System Engineering, 2.75 ECTS credits.
- Feb 2018 **Laboratory teacher in Electromagnetic Fields**, *Universidad Carlos III de Madrid*,  
Jun 2018 Bachelor's Degree in Telecommunication Technologies Engineering, 0.25 ECTS credits.
- Feb 2017 **Participant in a program of engineering for international students**, *Universi-*  
Jun 2017 *dad Carlos III de Madrid*, Bachelor's Degree in Communication System Engineering,  
Tutoring lessons for american students in electromagnetic fields.
- Feb 2017 **Participant in the program 4 ESO + Empresa 2017**, *Universidad Carlos III de*  
Jun 2017 *Madrid*, Practice lessons to encourage high school students.  
10 hours
- Feb 2017 **Responsible for small theory groups in Linear Networks Analysis and**  
Jun 2017 **Synthesis**, *Universidad Carlos III de Madrid*, Bachelor's Degree in Telecommunication  
Technologies Engineering, 2.75 ECTS credits.
- Feb 2017 **Responsible for laboratory practices in Electromagnetic Fields**, *Universi-*  
Jun 2017 *dad Carlos III de Madrid*, Bachelor's Degree in Telecommunication Technologies  
Engineering, 1.25 ECTS credits.
- Feb 2016 **Participant in a program of engineering for international students**, *Universi-*  
Jun 2016 *dad Carlos III de Madrid*, Bachelor's Degree in Communication System Engineering,  
Tutoring lessons for american students in electromagnetic fields.
- Feb 2016 **Responsible for small theory groups in Linear Networks Analysis and**  
Jun 2016 **Synthesis**, *Universidad Carlos III de Madrid*, Bachelor's Degree in Audiovisual  
System Engineering, 3 ECTS credits.
- Feb 2016 **Responsible for laboratory practices in Electromagnetic Fields**, *Universi-*  
Jun 2016 *dad Carlos III de Madrid*, Bachelor's Degree in Telecommunication Technologies  
Engineering, 2 ECTS credits.
- Feb 2015 **Responsible for laboratory practices in Electromagnetic Fields**, *Universidad*  
Jun 2015 *Carlos III de Madrid*, Bachelor's Degree in Communication System Engineering, 2  
ECTS credits.
- Feb 2015 **Responsible for laboratory practices in Electromagnetic Fields**, *Universi-*  
Jun 2015 *dad Carlos III de Madrid*, Bachelor's Degree in Telecommunication Technologies  
Engineering, 1.5 ECTS credits.
- Feb 2015 **Responsible for small theory groups in Linear Networks Analysis and**  
Jun 2015 **Synthesis**, *Universidad Carlos III de Madrid*, Bachelor's Degree in Audiovisual  
System Engineering, 1 ECTS credit.

- Feb 2014 **Responsible for laboratory practices in Electroacoustic and Sound Systems,**  
 Jun 2014 *Universidad Carlos III de Madrid*, Bachelor's Degree in Audiovisual System Engineering,  
 3.75 ECTS credit.
- Feb 2014 **Responsible for laboratory practices in Electromagnetic Fields,** *Universi-*  
 Jun 2014 *dad Carlos III de Madrid*, Bachelor's Degree in Telecommunication Technologies  
 Engineering, 1 ECTS credit.
- Feb 2014 **Responsible for laboratory practices in Electromagnetic Fields,** *Universi-*  
 Jun 2014 *dad Carlos III de Madrid*, Bachelor's Degree in Telecommunication Technologies  
 Engineering, 1 ECTS credit.
- Sep 2013 **Responsible for laboratory practices in Communication Channels and**  
 Jan 2014 **Systems,** *Universidad Carlos III de Madrid*, Bachelor's Degree in Communication  
 System Engineering, 1 ECTS credit.
- Feb 2013 **Responsible for laboratory practices in Electroacoustic and Sound Systems,**  
 Jun 2013 *Universidad Carlos III de Madrid*, Bachelor's Degree in Audiovisual System Engineering,  
 5.16 ECTS credits.

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## Awards

- 2013 **Prize VI Concurso de Ideas UC3M for the creation of innovative and  
 technology-based companies,** *part of the entrepreneurial team of ScientApps.*
- 2013 **Best Master Thesis Dissertation,** *XXXIII edition of COIT (Colegio Oficial de  
 Ingenieros de Telecomunicación, Spanish Association of Electrical Engineers) awards.*  
 ALTRAN prize in disruptive business models based on connected solutions with the dissertation  
 "Remote Simulation Tool in a Scientific Computing Cluster".
- 2010 **Excellence Award,** *Social Council of Universidad Carlos III de Madrid.*  
 Award-winning in student section.
- 2007 **Extraordinary Baccalaureate Prize,** *Castilla-La Mancha Regional Government.*
- Mar 2007 **Winner of the VII edition of the World Hispanic-American Spelling Contest,**  
*Cartagena de Indias, Colombia.*  
 IV International Conference of Spanish Language.

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## Scholarships

- 2017 **Scholarship for short stays,** *University Carlos III de Madrid, ElectroScience  
 Laboratory, The Ohio State University, hosted by Prof. J.-F. Lee.*  
 4200 euros, 1st in the ranking (project graded as 100 out of 100).
- 2016 **Scholarship for FPU scholarship holders: short stays,** *Ministry of Education,  
 Culture and Sport, ElectroScience Laboratory, The Ohio State University, hosted by  
 Prof. J.-F. Lee.*
- 2015 **Research and educational scholar (FPU, *Formación del Profesorado Uni-***  
 2018 ***versitario*) Program,** *funded by the Spanish Ministry of Education, Culture and  
 Sport, Universidad Carlos III de Madrid.*  
 Rank 4 at the national level (out of 21 scholarships).
- 2015 **Scholarship for mobility of researchers from Universidad Carlos III de  
 Madrid at national or international research centers,** *funded by Universidad  
 Carlos III de Madrid, at University of Macau, hosted by Prof. K.W. Tam..*
- 2014 **Program for Predoctoral Research Staff in Training,** *Universidad Carlos III de*  
 2015 *Madrid.*

- 2012 **Scholarship for M.S. Studies**, *Signal Theory and Communications Department*,  
2014 Universidad Carlos III de Madrid.
- 2011 **Research scholarship from Spanish Ministry of Education**, *Signal Theory and  
Communications Department*, Universidad Carlos III de Madrid.  
Antenna Array Analysis based on prismatic finite elements.  
*Conducted by Luis Emilio García Castillo.*
- 2009 **Excellence Scholarship from Madrid Regional Government**, *Electronics Tech-  
nology Department*, Universidad Carlos III de Madrid.  
Implementation of AES encryption algorithm in a microprocessor PIC18F2525.  
*Conducted by Luis Mengíbar Pozo.*
- 2008 **Excellence Scholarship from Madrid Regional Government**, *Electronics Tech-  
nology Department*, Universidad Carlos III de Madrid.  
Creation and detection of digital signature with GMM patterns.  
*Conducted by Luis Mengíbar Pozo.*
- 2007 **Excellence Scholarship from Madrid Regional Government**, *Signal Theory  
and Communications Department*, Universidad Carlos III de Madrid.  
Target detection in an airport with GPS.  
*Conducted by Francisco J. González Serrano.*

## Contributions to Conferences

- 2019 Laszlo L. Toth, Adrian Amor-Martin, and Romanus Dyczij-Edlinger. Hierarchical H(div) basis functions and universal matrices for curvilinear finite elements. Saarbrücken, 2019.
- 2019 Adrian Amor-Martin, Laszlo L. Toth, and Romanus Dyczij-Edlinger. H(curl)-Conforming Hierarchical Basis Functions on Prisms and Hexahedra. Miltenberg, 2019.
- 2018 Daniel Garcia-Donoro, Wujie Mei, Adrian Amor-Martin, and Luis E. Garcia-Castillo. Electromagnetic finite element solver for HPC environments using direct substructuring method. pages 1186–1189, Madrid, 2018. IEEE.
- 2018 Daniel Garcia-Donoro, Adrian Amor-Martin, and Luis E. Garcia-Castillo. Recent Developments Regarding a Higher Order Finite Element Method Electromagnetic Simulator (HOFEM). Portugal, 2018.
- 2018 Jose A Belloch, Adrian Amor-Martin, Daniel Garcia-Donoro, and Luis E. Garcia-Castillo. Acceleration of a Mesh Truncation Technique for a Finite Element Electromagnetics Code. Rota, 2018.
- 2018 Adrian Amor-Martin, Daniel Garcia-Donoro, and Luis E. Garcia-Castillo. Three-level parallelization of a Finite Element Code with Hybrid Meshes. Granada, 2018.
- 2018 Adrian Amor-Martin, Daniel Garcia-Donoro, and Luis E. Garcia-Castillo. Non-Conformal Domain Decomposition Method Supporting hp-Discretizations. Portugal, 2018.
- 2018 Adrian Amor-Martin, Daniel Garcia-Donoro, and Luis E. Garcia-Castillo. Non-conformal Domain Decomposition Method supporting hp Discretizations. Cartagena de Indias, 2018.
- 2018 Adrian Amor-Martin, Luis E. Garcia-Castillo, and Daniel Garcia-Donoro. Higher Order Finite Element Method based on a Non-conformal Domain Decomposition Method. pages 436–439, Krakow, 2018.

- 2018 Adrian Amor-Martin, LE Garcia-Castillo, and D Garcia-Donoro. Towards a scalable hp adaptive finite element code based on a nonconformal domain decomposition method. pages 436–439, Madrid, 2018.
- 2017 Daniel Garcia-Donoro, Adrian Amor-Martin, and Luis E. Garcia-Castillo. Higher-order finite element electromagnetics code for HPC environments. pages 818–827, Zurich, 2017. Elsevier.
- 2017 Luis E. Garcia-Castillo, Ignacio Gomez-Revuelto, Adrian Amor-Martin, Marcin Los, and Maciej Paszynski. Algorithm for simultaneous adaptation and time step iterations for the electromagnetic waves propagation and heating of the human head induced by cell phone. pages 2448–2452, Zurich, 2017. Elsevier.
- 2017 Luis E. Garcia-Castillo, Daniel Garcia-Donoro, and Adrian Amor-Martin. Higher-order finite element code for electromagnetic simulation on HPC environments. Grenoble, 2017.
- 2017 Adrian Amor-Martin, Daniel Garcia-Donoro, and Luis E. Garcia-Castillo. On the design of higher-order curl-conforming finite elements and its assembly features. pages 200–202, Sevilla, 2017. IEEE.
- 2017 Adrian Amor-Martin, Daniel Garcia-Donoro, and Luis E. Garcia-Castillo. Analysis of dispersion error of higher-order curl-conforming prismatic finite element. pages 203–205, Sevilla, 2017. IEEE.
- 2017 Adrian Amor-Martin, Daniel Garcia-Donoro, and Luis E. Garcia-Castillo. A finite element mesh truncation technique for scattering and radiation problems in HPC environments. pages 33–34, Barcelona, 2017. IEEE.
- 2016 Daniel Garcia-Donoro, Sioweng Ting, Adrian Amor-Martin, Luis E. Garcia-Castillo, and Magdalena Salazar-Palma. Higher order finite element method solver for the analysis of microwave devices in planar technology. pages 473–476, London, 2016. IEEE.
- 2016 Daniel Garcia-Donoro, Adrian Amor-Martin, Luis E. Garcia-Castillo, Magdalena Salazar-Palma, and Tapan K. Sarkar. HOFEM: Higher order finite element method simulator for antenna analysis. pages 1–4, Syracuse, 2016. IEEE.
- 2016 Adrian Amor-Martin, Ignacio Martinez-Fernandez, and Luis E. Garcia-Castillo. Posidonia: A Tool for HPC and Remote Scientific Simulations. Firenze, 2016.
- 2016 Adrian Amor-Martin, Ignacio Martinez-Fernandez, and Luis E. Garcia-Castillo. Posidonia: A Software Tool for HPC Scientific Simulations. Asturias, 2016.
- 2016 Adrian Amor-Martin, Daniel Garcia-Donoro, and Luis E. Garcia-Castillo. Second-Order Nédélec Curl-Conforming Prism for Finite Element Computations. Firenze, 2016.
- 2016 Adrian Amor-Martin and Luis E. Garcia-Castillo. Comparison between Different Assembly Strategies for Higher-Order Curl-Conforming Prismatic Finite Elements. Asturias, 2016.
- 2015 Adrian Amor-Martin, Daniel Garcia-Donoro, and Luis E. Garcia-Castillo. Implementation of the Second-Order Nédélec Curl-Conforming Prismatic Element for Computational Electromagnetics. Pamplona, 2015.
- 2014 Francisco-Javier González-Serrano, Adrian Amor-Martin, and Jorge Casamayón-Antón. State estimation using an Extended Kalman Filter with privacy-protected observed inputs. Atlanta, 2014.



- 2013 Cristina Garcia-Muñoz, Adrian Amor-Martin, Ignacio Martinez-Fernandez, and Luis E. Garcia-Castillo. Plataforma Web de simulación remota en un cluster de computación científica. Santiago de Compostela, 2013.
- 2012 Adrian Amor-Martin, Ignacio Martinez-Fernandez, and Luis E. Garcia-Castillo. Herramienta de simulación remota en un cluster de computación científica. Elche, 2012.

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## Other contributions to Conferences

- 2019 **European Microwave Week, Paris, France.**  
Exhibitor of GREMA stand
- 2018 **European Microwave Week, Madrid, Spain.**  
Help Desk
- 2017 **European Microwave Week, Nuremberg, Germany.**  
Exhibitor of GREMA stand
- 2016 **GiD Convention 2016, Barcelona.**  
Presentation of the communication written by D. García-Doñoro, Y. Zhang, T. K. Sarkar and L. E. García-Castillo, "HOBBIES: Electromagnetic suite 2016", *GiD Convention 2016*, Jun. 2016

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## Participation in Organizations

- 2020 **Organización de la Mesa Redonda "El doctorado y sus expectativas laborales" en el congreso URSI Málaga 2020, Colegio Oficial de Ingenieros de Telecomunicación.**
- 2020 **Coordinador del grupo de trabajo Jóvenes Telecom del COIT, Colegio Oficial de Ingenieros de Telecomunicación.**
- 2018 **Member of the Working Group P2816 of APS/SC/CEM, IEEE, APS, Writing of the standard PAR P2816 Recommended Practice for Computational Electromagnetics Applied to Modeling and Simulation of Antennas.**
- Apr 2016 **Member of the School Board at Advanced Polytechnic School, Universidad Carlos III de Madrid, assistant lecturers and research scholarship holders representative.**
- Dec 2018 **Member of the Permanent Comission on the Signal Theory and Communications Department.**
- Oct 2015 **Member of the Permanent Comission on the Signal Theory and Communications Department.**
- Dec 2018 **Member of the Permanent Comission on the Signal Theory and Communications Department.**
- Sep 2014 **Institutional representative at the High School Collaboration Program, Universidad Carlos III de Madrid, explanation of the anechoic chamber for antenna measurements provided by GREMA (Radiofrequency, Electromagnetics, Microwaves and Antennas Group).**
- Sep 2018 **Institutional representative at the High School Collaboration Program, Universidad Carlos III de Madrid, explanation of the anechoic chamber for antenna measurements provided by GREMA (Radiofrequency, Electromagnetics, Microwaves and Antennas Group).**
- Jun 2014 **Member of the Signal Theory and Communications Department Board, Master Students Representative.**
- Dec 2018 **Master Students Representative.**

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## Reviewer

- IEEE Antennas and Propagation Magazine (Q1)
- IEEE Access (Q1)
- SAGE Journal of Supercomputing (Q2)
- IET Microwaves Antennas and Propagation (Q3)
- ACES Journal (Q4)
- SoftwareX (Elsevier)

- Premios del Colegio Oficial de Ingenieros de Telecomunicación
- Technovation Girls 2020

## Language certificates and courses

- Feb 2017 **English course C1 *Advanced Skills*, L\*T\*S.**  
 May 2017 24 hours. *C1 level.*
- Oct 2015 **German course A1.2, Goethe-Institut.**  
 Feb 2016 Course with 48 teaching units (45 minutes each one). *Level achieved: A1.2.*
- Mar 2013 **TOEFL, TOEFL iBT test.**  
 Grade: 99 out of 120.
- Jun 2011 **English language immersion program, Universidad Internacional Menéndez Pelayo, Valencia.**  
 B2 level. *1 week.*
- Sep 2010 **English language immersion program, Universidad Internacional Menéndez Pelayo, A Coruña.**  
 B2 level. *1 week.*
- Aug 2009 **Stay in *Global Village* school at Vancouver, Canada, scholarship from the Spanish Ministry of Education.**  
 Obtained level: GV7 (Pre-Advanced) out of 8. *3 weeks.*
- Jul 2007 **Stay in Toronto, Canada, scholarship from the Castilla-La Mancha Regional Government.**  
 Grade: 8 out of 10. *4 weeks.*

## Languages

- Spanish Native level.  
 English High level. *Spoken and written.*  
 German Low level. *Written.*

## Research lines

- Finite Elements
- Higher-Order Curl-Conforming Elements
- Domain Decomposition Methods
- Adaptivity
- Model Order Reduction
- HPCaaS: High Performance Computing as a Service
- Remote Simulation
- Privacy-preserving signal processing

## Other considerations

- Driver's License.

- Cofounder and CTO of ScientApps, startup based on my Master Thesis Dissertation (now closed).