

Adrián Amor Martín

M.S. in Electrical Engineering

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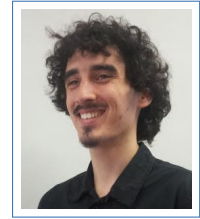
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Résumé

I am a Ph.D. student interested in computational electromagnetics and defending my dissertation by Dec. 2018. My Ph.D. dissertation includes 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 obtained on a competitive basis. I am the first author in one Q1 (TAP) and one Q2 (APM) JCR papers and 15 conference papers and I am a coauthor of 3 more papers (1 Q1, 1 Q2, and 1 Q4) and 8 conference papers. I have been a visiting scholar at The Ohio State University hosted by Prof. Jin-Fa Lee during seven months, and at the University of Macau during two months, and I scored 99 points out of 120 in a TOEFL iBT test (equivalent to C1).

Education

- 2014 **Multimedia and Communication Interuniversity Ph.D. Program**, *Universidad Carlos III de Madrid*.
- 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

- 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.
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 *Universidad Carlos III de Madrid* with reference PIF UC3M 01-1415.
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.

Scholarships

- 2018 **Assistant Professor**, *Universidad Carlos III de Madrid*.
- 2015 **Research and educational scholar (FPU, *Formación del Profesorado Universitario*) Program**, funded by the Spanish Ministry of Education, Culture and Sport, *Universidad Carlos III de Madrid*.
2018 Rank 4 at the national level (out of 63 accepted applicants).
- 2014 **Program for Predoctoral Research Staff in Training**, *Universidad Carlos III de Madrid*.
2015
- 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 Technology 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 Technology 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.

Scientific publications

- 2018 **Journal of Supercomputing**, *JOS*.
J.A. Belloch, A. Amor-Martin, D. García-Doñoro, L.E. García-Castillo, “Acceleration of a Mesh Truncation Technique for a Finite Element Electromagnetics Code”, *Journal of Supercomputing*, under 2nd round of review.
- 2017 **Pattern Recognition**, *Elsevier*.
F. González-Serrano, A. Navia-Vázquez, A. Amor-Martin, “Training Support Vector Machines with privacy-protected data”, *Pattern Recognition*, vol. 72, pp. 93-107, Dec. 2017, doi: 10.1016/j.patcog.2017.06.016.
- 2017 **International Journal of Information Security**, *Springer*.
F. González-Serrano, J. Casamayón-Antón, A. Amor-Martin, “Supervised Machine Learning using Encrypted Data”, *International Journal of Information Security*, doi: 10.1007/s10207-017-0381-1, Jun. 2017.
- 2016 **Microwave and Optical Technology Letters**, *Wiley*.
D. García-Doñoro, S. Ting, A. Amor-Martin, L.E. García-Castillo, “Analysis of Planar Microwave Devices using Higher Order Curl-Conforming Triangular Prismatic Finite Elements”, *Microwave and Optical Technology Letters*, vol. 58, pp. 1794-1801, Jun. 2016, doi: 10.1002/mop.29910.

- 2016 **Transactions on Antennas and Propagation, IEEE.**
A. Amor-Martín, D. García-Donoro, L.E. García-Castillo, “Second-order Nédélec Curl-Conforming Prismatic Element for Computational Electromagnetics”, *IEEE Transactions on Antennas and Propagation*, vol. 64, no. 10, pp. 4384-4395, Oct. 2016, doi: 10.1109/TAP.2016.2597640.
- 2015 **Antennas and Propagation Magazine, IEEE.**
A. Amor-Martín, I. Martínez-Fernández, L.E. García-Castillo, “Posidonia: A Tool To Ease Remote Scientific Simulations”, *IEEE Antennas and Propagation Magazine*, vol.57, no. 6, pp. 166-177, Dec. 2015, doi: 10.1109/MAP.2015.2481824.

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.

Stays in foreign research centers

- Ago 2017 **The Ohio State University, short stay (120 days) at ElectroScience Laboratory,**
Dic 2017 hosted by Jin-Fa Lee, funded by University Carlos III of Madrid with a scholarship obtained on a competitive basis (ranked as 1st on the whole university, €4200).
- Sep 2016 **The Ohio State University, short stay (90 days) at ElectroScience Laboratory,**
Dic 2016 hosted by Jin-Fa Lee, funded by Spanish Ministry of Education with a scholarship obtained on a competitive basis (€5200).
- Jun 2015 **University of Macau, short stay (45 days) in Computational Electromagnetism Laboratory of University of Macau,**
Jul 2015 hosted by Professor K.W. Tam, funded by Universidad Carlos III de Madrid with a scholarship obtained on a competitive basis (€1610).