

## Curriculum Vitae (May 2017)

### Personal data

Name: Guillermo P. Curbera.

Birth; 19 July, 1961, Madrid (Spain).

Bachelor in mathematics: Universidad Complutense de Madrid and Universidad de Sevilla.

Master in Mathematics, Universidad de Sevilla, 1987 (with Honors).

PhD in Mathematics, Universidad de Sevilla, 1992 (with Honors).

Current position: Full professor at the University of Sevilla, Spain.

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### Research interests

Vector measures. Vector integration. Banach spaces. Banach lattices. Interpolation of linear operators. Rearrangement invariant spaces. Integral operators. Sobolev inequalities. Banach spaces of analytic functions. Hardy spaces. Cesàro operators. Dirichlet series.

### Publications: scientific articles

- The weak Banach-Saks property for function spaces

Guillermo P. Curbera, Werner J. Ricker

Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas, to appear.

- On the Radon-Nikodym property in function spaces

Guillermo P. Curbera, Werner J. Ricker

Proceedings of the American Mathematical Society, 145 (2017) 617-626.

- Abstract Cesàro spaces: Integral representations

Guillermo P. Curbera, Werner J. Ricker

Journal of Mathematical Analysis and Applications, 441 (2016) 25-44.

- On the existence of RUC systems in rearrangement invariant spaces

Serguei V. Astashkin, Guillermo P. Curbera, Konstantin E. Tikhomirov  
Mathematische Nachrichten, 289 (2016) 175-186.

- The Cesro operator and unconditional Taylor series in Hardy spaces

Guillermo P. Curbera, Werner J. Ricker

Integral Equations and Operator Theory, 83 (2015) 179-195.

- Local Khintchine inequality in rearrangement invariant spaces

Guillermo P. Curbera, Serguei V. Astashkin

Annali di Matematica Pura ed Applicata, 194 (2015) 619-643.

- A Banach function space  $X$  for which all operators from  $\ell^p$  to  $X$  are compact

Guillermo P. Curbera, Luis Rodríguez Piazza

Functiones et Approximatio, 50 (2014) 233-249.

Special issue dedicated to L. Drewnowski on the occasion of his 70th birthday.

- Solid extensions of the Cesàro operator on  $\ell^p$  and  $c_0$

Guillermo P. Curbera, Werner J. Ricker

Integral Equations and Operator Theory, 80 (2014) 61-77.

- A weighted Khintchine inequality

Guillermo P. Curbera, Serguei V. Astashkin

Revista Matemática Iberoamericana, 30 (2014) 237-246.

- A feature of averaging

- Guillermo P. Curbera, Werner J. Ricker  
 Integral Equations and Operator Theory, 76 (2013) 447-449.
- Solid extensions of the Cesàro operator on the Hardy space  $H^2$   
 Guillermo P. Curbera, Werner J. Ricker  
 Journal of Mathematical Analysis and Applications, 407 (2013) 387-397.
  - On the spectrum of the Cesàro operator in  $\ell^p$   
 Guillermo P. Curbera, Werner J. Ricker  
 Archiv der Mathematik 100, (2013) 267–271.
  - Sobolev type inequalities for rearrangement invariant spaces  
 Guillermo P. Curbera, Werner J. Ricker  
 Positivity 15, (2011) 553–570.
  - Extensions of the classical Cesàro operator on Hardy spaces  
 Guillermo P. Curbera, Werner J. Ricker  
 Mathematica Scandinavica, 108 (2011) 637–653.
  - Function spaces arising from kernel operators  
 Guillermo P. Curbera, Werner J. Ricker  
 Positivity, 14 (2011) 637–653.
  - Rearrangement invariance of Rademacher multiplicator spaces  
 Serguei V. Astashkin, Guillermo P. Curbera  
 Journal of Functional Analysis, 256 (2009) 4071–4094.
  - Vector measures: Where are their integrals?  
 Guillermo P. Curbera, Olvido Delgado, Werner J. Ricker  
 Positivity, 13 (2009) 61–87.
  - Rademacher multiplicator spaces equal to  $L_\infty$   
 Serguei V. Astashkin, Guillermo P. Curbera  
 Proceedings of the American Mathematical Society, 136 (2008) 3493–3501.
  - Optimal Domains for  $L^0$ -valued Operators  
 Guillermo P. Curbera, Olvido Delgado  
 Positivity 11, (2007) 399–416.
  - Can optimal rearrangement invariant Sobolev imbeddings be further extended?  
 Guillermo P. Curbera, Werner J. Ricker  
 Indiana University Mathematics Journal, 56 (2007) 1479–1498.
  - Compactness properties of Sobolev imbeddings for rearrangement invariant norms  
 Guillermo P. Curbera, Werner J. Ricker  
 Transactions of the American Mathematical Society, 359 (2007) 1471–1484.
  - The Fatou property in p-convex Banach lattices  
 Guillermo P. Curbera, Werner J. Ricker  
 Journal of Mathematical Analysis and Applications, 328 (2007) 287–294.
  - Extrapolation with weights, rearrangement invariant function spaces, modular inequalities and applications to singular integrals  
 Guillermo P. Curbera, José García-Cuerva, José María Martell, Carlos Pérez  
 Advances in Mathematics, 203 (2006) 256–318.
  - Banach lattices with the Fatou property and optimal domains of kernel operators  
 Guillermo P. Curbera, Werner J. Ricker  
 Indagationes Mathematicae, 17 (2006) 187–204.
  - Symmetric kernel of Rademacher multiplicator spaces  
 Serguei V. Astashkin, Guillermo P. Curbera  
 Journal of Functional Analysis, 226 (2005) 173–192.
  - Optimal domain for the kernel operator associated with Sobolev's inequality

- Guillermo P. Curbera, Werner J. Ricker  
*Studia Mathematica*, 158 (2003) 131-152 and 170 (2005) 217-218.
- Multiplication operators on the space of Rademacher series in rearrangement invariant spaces  
 Guillermo P. Curbera, Vladimir A. Rodin  
*Mathematical Proceedings of the Cambridge Philosophical Society*, 134 (2003) 153-162.
  - Optimal domains for kernel operators via interpolation  
 Guillermo P. Curbera, Werner J. Ricker  
*Mathematische Nachrichten*, 244 (2002) 47-63.
  - Multipliers on the Set of Rademacher Series in Symmetric Spaces  
 Guillermo P. Curbera, Vladimir A. Rodin  
*Functional Analysis and Its Applications*, 36 (2002) 244-246.
  - Please no new integrals!  
 Guillermo P. Curbera  
*Tübinger Berichte zur Funktionalanalysis*, 9 (1999-2000) 117-124.
  - Volterra convolution operators with values in rearrangement invariant spaces  
 Guillermo P. Curbera  
*Journal of the London Mathematical Society*, 60 (1999) 258-268.
  - A note on function spaces generated by Rademacher series  
 Guillermo P. Curbera  
*Proceedings of the Edinburgh Mathematical Society*, 40 (1997) 119-126.
  - Banach space properties of  $L^1$  of a vector measure  
 Guillermo P. Curbera  
*Proceedings of the American Mathematical Society*, 123 (1995) 3797-3806.
  - When  $L^1$  of a vector measure is an AL-space  
 Guillermo P. Curbera  
*Pacific Journal of Mathematics*, 162 (1994) 287-303.
  - Operators into  $L^1$  of a vector measure and applications to Banach lattices  
 Guillermo P. Curbera  
*Mathematische Annalen*, 293 (1992) 313-330.

### **Publications: book chapters**

- On Optimal Domains  
 Guillermo P. Curbera  
*Banach and function spaces IV. International Symposium (ISBFS 2012)*.  
 Eds. M. Kato, L. Maligranda. Yokohama Publishers, to appear.
- How summable are of Rademacher Series?  
 Guillermo P. Curbera  
*Vector Measures, Integration and Related Topics*, 135–148  
*Operator Theory: Advances and Applications*, Birkhäuser (2010).
- Vector measures, integration and applications  
 Guillermo P. Curbera, Werner J. Ricker  
 In: “Positivity”, 127–160, *Trends in Mathematics*, Birkhäuser (2007).

### **Long Research Visits**

- Indian Statistical Institute, Bangalore (India), December 2017.
- Mathematisches Forschungsinstitut Oberwolfach (Germany), Research in Pairs Program: March 2013 and March 2007.
- Katholische Universität Eichstätt–Ingolstadt (Germany), one month per year, since 2002.
- Samara State University (Russia), 2013, 2014, 2015.

- School of Mathematics, University of New South Wales, Sidney (Australia), 1998, 1999.
- Departamento de Análisis Matemático, Universidad Complutense de Madrid, 1992.
- Department of Mathematics and Computer Science, Kent State University, 1990, 1991.

## **Books**

- Mathematicians of the World Unite! The International Congress of MathematiciansA Human Endeavor  
Guillermo P. Curbera  
AK Peters, (2009),  
ISBN: 978-1-56881-330-1
- Vector Measures, Integration and Related Topics  
Guillermo P. Curbera, Gerd Mockenhaupt, Werner J. Ricker (editors)  
Operator Theory: Advances and Applications, Birkhäuser (2010),  
ISBN: 978-3-0346-0210-5.
- El club de los matemáticos. Los congresos internacionales (Spanish)  
Guillermo P. Curbera, RBA Editores, 2011.  
ISBN: 978-84-4737441-0.  
Translated into: English, French, Italian, Polish and Russian.
- Matematicas para Estimular el Talento II (Mathematics for stimulating talent), Sociedad Andaluza de Educacion Matematica Thales, 2011.  
ISBN: 978-84-937577-6-2
- Giovanni Battista Guccia: an internationalist in Palermo,  
Benedetto Bongiorno, Guillermo P. Curbera, preprint.

## **Other publications**

- The International Congress of Mathematicians: a human endeavour  
Guillermo P. Curbera  
Current Science, 99 287–292 (2010)
- Fronteras matemáticas del siglo XXI. Una mirada histórica a los International Congress of Mathematicians  
Guillermo P. Curbera  
Arbor (CSIC), 725 363–372 (2007).
- Los ICM a través de la historia  
Guillermo P. Curbera  
European Mathematical Newsletter, 63 16–21 (2007)
- Los ICM a través de la Historia  
Guillermo P. Curbera  
La Gaceta de la Real Sociedad Matemática Española, 9.3 695–711 (2006)
- Quinientos años de matemáticas en Sevilla y algunos menos en la Universidad. Historia de los Estudios e Investigación en Ciencias en la Universidad de Sevilla  
Guillermo P. Curbera, Antonio Durán  
Servicio de publicaciones Universidad de Sevilla, 75–144 (2005), ISBN: 84-472-1001-4
- Matemáticas desde las afueras: Ramanujan y Sunyer i Balaguer Matemáticos y Matemáticas  
Guillermo P. Curbera  
Servicio de publicaciones Universidad de Sevilla, 157–184 (2004), ISBN: 84-472-0810-9

## **Participation in Research Projects**

- Orthogonality, Approximation Theory and Applications to Mathematical Physics  
D.G.I. (MTM2015-65888-C4-1-P), Universidad de Sevilla, Universidad de Zaragoza, Universidad Carlos III de Madrid, Universidad de la Rioja, Universidad Politécnica de Madrid, Universidad de Copenhague, Katholische Universität Eichstätt, 2016–2018

- Orthogonality and approximation. Theory and applications in science and technology  
D.G.I. (MTM2012-36732-C03-03), Universidad de Sevilla, Universidad de Zaragoza, Universidad Carlos III de Madrid, Universidad de la Rioja, Universidad Politécnica de Madrid, Universidad de Copenhague, Katholische Universität Eichstätt, 2013–2015
- Orthogonality, approximation, and quantum complexity: theory and scientific and technological applications. Plan Andaluz de Investigación, Proyecto de Excelencia FQM-4643, Universidades de Sevilla, Granada y Almería, 2009–2011
- Orthogonality, approximation theory, and applications in science and technology  
D.G.I. ((MTM2009-12740-C03), Universidad de Sevilla, Universidad de Zaragoza, Universidad Carlos III de Madrid, Universidad de la Rioja, Universidad Politécnica de Madrid, Universidad de Copenhague, Katholische Universität Eichstätt-Ingolstadt and University of California at Santa Barbara, School of Mathematical Sciences, University College Dublin and Universidad de Coimbra , 2009–2012
- Orthogonality and approximation: theory and physical and clinic applications  
D.G.I. (MTM2006-13000-C03-01), Universidad de Sevilla, Universidad de Zaragoza, Universidad Carlos III de Madrid, Universidad de la Rioja, Universidad Politécnica de Madrid, Universidad de Copenhague, Katholische Universität Eichstätt and University of California at Berkeley, 2006–2009
- Orthogonality, non-linearity and information theory: interactions, and physical, clinical and nano-technological applications  
Plan Andaluz de Investigación, Proyecto de Excelencia P06-FQM-01735, Universidades de Sevilla, Granada y Almería, 2007–2009
- Consolider “Ingenio Mathematica” I-Math  
Ministerio de Ciencia e Innovación: CSD-2006-00032, 2006–2011
- Special functions, quantum entropies and biological and nano-technological applications  
Plan Andaluz de Investigación, Proyecto de Excelencia 00481, Universidades de Sevilla, Granada y Almería, 2006–2008
- $L_0$ -valued measures with applications to stochastic integrals  
D.G.I. (SAB2004-0206), ,2005–,2006.
- Orthogonality and Approximation  
D.G.I. (BFM2003-06335-C03-01), Universidad de Sevilla, Universidad de Zaragoza, Universidad Carlos III de Madrid, Universidad de la Rioja, Universidad Politécnica de Madrid, University of Copenhagen, Katholische Universität Eichstätt, Universidad de la Habana, 2003–2006.
- Orthogonality and Approximation. general Theory and Applications  
D.G.I. (BFM2000-0206-C04-02), Universidad de Sevilla, Universidad de Zaragoza, Universidad Carlos III de Madrid, Universidad Politécnica de Valencia, Universidad de la Rioja, Universidad Politécnica de Madrid, University of Copenhagen, 2000–2003.
- Convexity in infinite and finite dimension  
D.G.E.S. (French–Spanish action HF-1999–033), Universidad de Sevilla, UNWER Marne la Valle , 2000–2001.
- Orthogonal matrix polynomials: general theory, examples and applications, and approximation of solutions to differential equation with a priori error estimates  
D.G.E.S. (PB96-1321-C02-01), Universidad de Sevilla, Universidad Politécnica de Valencia, 1997–2000.
- Aproximation Theory  
Plan Andaluz de Investigación (FQM 262), Universidad de Sevilla2001–2009
- Vector measures and function spaces  
D.G.I.C.Y.T. (PB93-0926), Universidad de Sevilla, 1994–1997.
- Algebras in Analysis  
Universidad de Sevilla, Universidad Complutense de Madrid, Kent State University, 1992–1993.
- Vector measures and function spaces  
D.G.I.C.Y.T. (PB90-0893), Universidad de Sevilla, 1991–1994.
- Infinite dimensional Analysis

Universidad de Sevilla, Universidad Complutense de Madrid, Kent State University, 1988–1989.

### Participation in Conferences

- Weak Banach-Saks and Radon-Nikodym properties in function spaces Congreso Bienal de la Real Sociedad Matemática Española (RSME2017), Zaragoza, Spain.
- Optimal domain for operators on function spaces, Operator Theory and Operator Algebras 2016, Bangalore (India).
- How good is averaging, Discussion Meeting in Linear Analysis, Coorg, India, 2016.
- A classical result of Hardy motivated the study of the Cesro operator, Workshop on Operators and Banach lattices II, Tipo de evento: Sesión plenaria en Congreso Universidad Complutense de Madrid, 2016.
- Oldies but Goodies: Providing background to ICM mission and activities from an archival perspective, International Congress on Mathematical Education ICME-13, Hamburg.
- Weak Banach-Saks and Radon-Nikodym properties in function spaces, Second Joint Meeting of the Spanish, Belgian and Luxembourg mathematical societies, Logroño (Spain), 2016.
- Local and weighted Khintchine inequality NWU-PUK Spring School on Stochastic Processes and Workshop on Functional Analysis and its Applications, Potchefstroom, 2015, Southafrica.
- On the unconditional part of Hardy space, Positivity VIII, Chengdu, China, 2015.
- On Random Unconditional Convergence in rearrangement invariant spaces, Joint Meeting of the German Mathematical Society and the Polish Mathematical Society, Poznan, Poland, 2014.
- The Cesro operator on the unconditional Hardy space, Joint Meeting of the German Mathematical Society and the Polish Mathematical Society, Poznan, Poland, 2014.
- Local and weighted Khintchine inequality, Encuentros de Análisis Real y Complejo, Girona (Spain), 2014.
- The Cesàro operator acting on  $\ell^p$ , and consequences for Hardy spaces on the disc, Positivity VII (Zaanen Centennial), Leiden, 2013.
- The Cesàro operator on Hardy Spaces: extensions and optimal domains, Fourth International Symposium on Banach and Function Spaces, Kitakyushu, 2012.
- On Optimal Domains, Integration, Vector Measures and Related Topics, Palermo, 2012.
- Khintchine inequality: local and weighted versions, Function spaces X, Poznan, 2012.
- Solid extensions of the Cesàro operator on the Hardy space  $H^2$ , Harmonic and Complex Analysis and its Applications, Tenerife, 2012.
- Local Khintchine inequality for symmetric spaces, 2nd International Workshop on Interpolation Theory, Function Spaces and Related Topics, Santiago de Compostela, 2011.
- Rademacher series in symmetric spaces, Banach Space Geometry, International Conference for the 70th birthday of Prof. E. Semenov, Steklov Institute, St Petersburg, 2010.
- Extensions of the classical Cesàro operator on Hardy spaces, Functional Analysis Valencia 2010, International Meeting on the Occasion of the 80th birthday of Prof. Manuel Valdivia, Valencia, 2010.
- From stochastic processes to vector measures and back, Informal Analysis Seminar dedicated to the Work of Joe Diestel, Kent State University, USA, 2010.
- Function spaces for refined Sobolev inequalities, Vector Measures, Integration and Applications, Bedlewo, 2009.
- Function spaces and stochastic measures, Positivity VI, El Escorial, 2009.
- Sobolev and logarithmic Sobolev inequalities: optimality and extensions, Vector Measures, Integration and Applications, Aranjuez, 2009.
- How sumable are Rademacher series?, Vector Measures, Integration and Applications, Eichstätt, 2008.
- On the behavior of Rademacher series in rearrangement invariant spaces, International Workshop on Interpolation Theory, Function Spaces and Related Topics, Toledo, 2008.
- Sobolev type inequalities via optimal domains, VIII International Conference on Harmonic Analysis and Partial Differential Equations, El Escorial, 2008.

- Optimal domains for classical operators and vector measures: a new look at old problems, Measure theory Edward Marczewski centennial conference, Institute of Mathematics of the Polish Academy of Sciences, Bedlewo, 2007.
- Sobolev spaces and vector measures?, Spring Central Section Meeting, American Mathematical Society, Oxford, OH (USA) 2007.
- On Sobolev imbeddings, Function Spaces, Approximation Theory, Nonlinear Analysis, dedicated to the centennial of S. M. Nikolskii, (Steklov Institute), Moscú, 2005.
- Compactness of Sobolev imbeddings for rearrangement invariant norms, VII International Conference on Harmonic Analysis and Partial Differential Equations, El Escorial, 2004.
- Sobolev spaces and vector measures?, Primer Encuentro sobre Medidas Vectoriales e Integración, Valencia, 2004.
- Optimal domains for the kernel operator operator associated with Sobolev's inequality, Joint Meeting American Mathematical Society–Real Sociedad Matemática Española, Sevilla, 2003.
- Optimal domains for kernel operators, vector measures and interpolation, VI International Conference on Function spaces, Wrocław, 2001.
- Volterra convolution operators with values in rearrangement invariant spaces AsistenteNonlinear analysis, Function spaces and Applications, Prague, 1998.
- Operadores de Volterra de convolución con valores en espacios invariantes por reordenamientos , IV Reunión de Análisis Real y Complejo, Esplugues de Francolí, 1998.
- On function spaces generated by Rademacher series AsistenteInternational Conference in Abstract Analysis, Krueger, South Africa, 1996.
- Rademacher series and rearrangement invariant spaces, VI Convegno di analisi reale e teoria della misura Ischia, 1994.
- Integration of real functions with respect to vector measures and Banach Lattices, International Conference in Abstract Analysis, Krueger, South Africa, 1993.
- Operators into  $L^1$  of a vector measure, II Winter School on Measure Theory, Liptovský Jan, 1990.
- Operators into  $L^1$  of a vector measure, II Congreso Internacional de Análisis Funcional, Jarandilla de la Vera, 1990.
- Some properties of the space  $L^1(\nu)$  for  $\nu$  a vector measure, II International Conference on Function spaces, Poznan, 1989.
- Weak sequential completeness of the space  $L^1(\nu)$  for  $\nu$  a vector measure, I Congreso Internacional de Análisis Funcional El Escorial, 1988.

### **Directed Doctoral Thesis**

- New contributions to  $L^1$  of a vector measure, Olvido Delgado Garrido, Universidad de Sevilla 2004.
- Papers published from the Thesis:
  - “Optimal domains for kernel operators on  $[0, \infty) \times [0, \infty)$ ”  
Olvido Delgado, Studia Mathematica, 174 (2006), 131-145
  - “ $L^1$ -spaces of vector measures defined on  $\delta$ -rings”  
Olvido Delgado, Archiv der Mathematik, 84 (2005), 432-443
  - “Banach function subspaces of  $L^1$  of a vector measure and related Orlicz spaces”  
Olvido Delgado, Indagationes Mathematicae (N.S.), 15 (2004), 485-495
- Local distribution of Rademacher series and function spaces, Francisco Javier Carrillo-Alanis, Universidad de Sevilla 2017.
- Papers published from the Thesis:
  - J. Carrillo Alanis, “On local Khintchine inequalities for spaces of exponential integrability”, Proc. Amer. Math. Soc., 139, 2753–2757, 2011.

- J. Carrillo Alanis, “Rademacher functions in weighted Ces`aro spaces”, *Studia Math.*, 217, 19–40, 2013.  
J. Carrillo Alanis, “Local rearrangement invariant spaces and distribution of Rademacher series”, *Positivity*, to appear.

### **Organization of Scientific Meetings**

- V Reunión de Análisis Real y Complejo, 1999.
- Encuentros de Matemáticos Andaluces, 2000.
- First Joint Meeting between the American Mathematical Society y Real Sociedad Matemática Española, 2003.
- Special session “Teoría de Interpolación, Espacios de Funciones y Aplicaciones ” (joint with Fernando Cobos) First Joint Meeting between the RSME–SCM–SEIO–SEMA, 2005.
- International Congress of Mathematicians, Madrid–2006.
- Second Meeting on Vector Measures and Integration, Sevilla 2006.
- Workshop on Vector Measures and Integration, Carmona 2008. .
- Encuentros de Análisis Real y Complejo 2015, UPO, Carmona 2015. mbito: Nacional

### **Other scientific activities**

- Mathematical Research Institute of the University of Sevilla 2015–.
- Secretary.
- International Mathematical Union:
- Curator of the Archives (Berlín). (2007–).
- Organizing Committee, International Congress of Mathematicians, Madrid 2006
- Spanish Royal Mathematical Society:
- Member of the Committee for reviewing mathematical terms in the Dictionary of the Spanish Language Academy, 2016–.
- Coordinator of the Editorial Committee of the series electronic mathematical books, 2013–.
- Editorial Committee of the series ”Mathematical Stimulus”, 2011–.
- Responsible for Publications of the Centennial of the Society, 2009–2011
- General Editor of the Spanish Royal Mathematical Society, 2006-2009.
- Director of Scientific Publications , 2005-2009.
- Member of the Governing Committee, 2005-2011.
- Project for Stimulating Young Talent in Mathematics. Spanish Royal Academy of Sciences, Vodafone Foundation. 2005–.
- Scientific evaluation
- Polish National Science Centre, 2016.
- External evaluator for the mathematical research institute of North-West University (Southafrica), 2013.
- Evaluator for the Spanish National Research Programme (ANEP), 2005–2014.
- Evaluator for the ”VI Framework Programme” of the European Union, 2006.
- Evaluation for research journals: “Acta Sci. Math. (Szeged)”, “Archiv der Mathematik”, “Arkiv för Matematik”, “Journal of Integral Equations and Operator Theory”, “Journal of Mathematical Analysis and Applications”, “London Mathematical Society”, “Mathematica Scandinavica”, “Positivity”, “Proceedings of the Edinburgh Mathematical Society”, “Publications Matemàtiques”, “Rocky Mountain Journal of Mathematics”, “Studia Mathematica”, “Journal of Function Spaces and Applications”, “Journal of Non-linear Analysis”, ”Publications of the Research Institute for Mathematical Sciences of Kyoto University”, “Questiones mathematicae”, “Real analysis exchange”, “Revista Matemática Complutense”.
- Reviewer: for Zentralblatt für Mathematik and Mathematical Reviews.

### **Participation in PhD Committees**

- “Espacio de funciones integrables respecto de una medida vectorial con valores en un espacio de Frechet”, Universidad de Sevilla (1997). Director Antonio Fernández.
- “Singularidad de inclusiones entre espacios invariantes por reordenamiento”, Universidad Complutense de Madrid (2002). Director Francisco Hernández.
- “Real analysis in non-euclidean spaces: trees and spaces of homogeneous type”, Universidad de Barcelona (2003). Director Javier Soria.
- “La matemática moderna entre el ‘formalismo modificado’ de Cavailles y el ‘platonismo estructural’ de Lautman”, Universidad de Sevilla (2008). Director José Ferreirós. Philosophy of Mathematics.
- “Aproximación no lineal con bases de ondículas”, Universidad de Autónoma de Madrid (2010). Director Eugenio Hernández.

### **Outreach, educational and historical activities**

- Editor of the blog “Blog del IMUS”, of the Mathematical Institute of the University of Sevilla, IMUS, <https://www.imus.us.es/blogdim/>, with 19 members of the Institute collaborating.
- Organizer of the exhibit ”THE ICM THROUGH HISTORY”, International Mathematical Union, International Congress of Mathematicians, ICM-2006, Madrid.
- Article: ”EL LADO HUMANO DE LA MATEMTICA”, newspaper ”El Pas”, 2009.
- ”Taller Interdisciplinar MAKING”, Escuela Superior de Arquitectura, Sevilla, 2009.
- Proyect “ESTALMAT” de estimulación de talento precoz en matemáticas, since 2005.
- Interview in newspaper ”Centinela de la Historia de la Matematicas”, Diario de Sevilla, 2011.
- Interview on the book ”Mathematicians of the World: Unitel”, Radio Nacional de Espaa, 2010.
- Organizer of the exhibit ”EL SIGLO XX A TRAVS DE LAS MATEMTICAS” shown in Madrid, Barcelona, Sevilla, and Badajoz.
- Presentation ”Giovanni Battista Guccia: an internationalist in Palermo” in Santiago de Compostela (Spain) 2013 and Palermo 2014.
- ”Historia de los congreso mundiales de matematicos”, educational talk, Logroño 2011.
- ”Matemáticas desde las afueras: Ramanujan y Sunyer i Balaguer” Seminario de Historia de las Matemáticas, 2004, Sevilla.
- ”El número Pi”, Seminario de Historia de las Matemáticas, 2003, Sevilla.
- ”Imre Lakatos”, Seminario de Historia de las Matemáticas, 2002, Sevilla.
- ”La profesionalización de las Matemáticas durante el siglo XIX”, Seminario de Historia de las Matemáticas: la crisis de fundamentos, 1998, Sevilla.
- ”Die Ludolphsche Zahl: History of Pi, a function of time”, Kolloquium Katholische Universität Eichstätt, Germany, 2009.