

Joaquim Bruna

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CATALONIA

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Homepage:

Date and place of birth: December 3, 1953 in Barcelona; Catalonia

Citizenship: Spanish

CURRENT POSITION

- Full Professor at the Departament de Matemàtiques, Universitat Autònoma de Barcelona (UAB), Catalonia, since 1984.
- Member of the Royal Academy of Sciences and Arts of Barcelona (RACAB)

PREVIOUS POSITIONS

- 1/01/1976—16/04/1980: UAB (Mathematics), *Several short term positions.*
- 17/04/1980—30/09/1980: Universidad de Sevilla (Mathematics), *Associate professor.*
- 1/10/1980—9/2/1984: UAB (Mathematics), *Associate professor.*
- 1/6/98—28/02/02: UAB, *Chairman of the Department of Mathematics.*
- 2007—2015: Generalitat de Catalunya, *Director of the Centre de Recerca Matemàtica (CRM).*

VISITING POSITIONS

- 06/01/1982—30/05/1982: Univ. Paris-Sud, *Visiting professor.*
- 1/9/85—28/02/86: University of Wisconsin-Madison, *Visiting professor.*
- 1/03/86—30/06/86: University of New York at Albany, *Visiting Professor.*
- 01/11/1987—30/12/1987: Mittag-Leffler Institute, *Visiting researcher.*
- 1/03/90—30/04/90: Bar Ilan University, *Visiting Professor.*
- 1984—2005: Univ. Provence (1984, 1992, 1997, 2005), Univ. Paul Sabatier (1989), Univ. Bordeaux (1991, 1993, 1994, 1995, 1996), Univ. Paris-Sud (1994), Univ. Orleans (1995, 2002, 2004), *Several one month visiting positions at French Universities.*
- 1/02/2004—28/02/2004: Norwegian Institute of Technology, *Visiting Researcher.*
- 1/02/2016—30/07/2016: Oxford Institute of Mathematics, *Visiting Professor.*
- 1/02/2016—30/07/2016: Keble College, Oxford, *Associate fellow.*

EDUCATION

- June 1975: 5 year degree in Mathematics at the Universitat de Barcelona.
- Dec 1978: Ph.D. in Mathematics, Universitat Autònoma de Barcelona.

RESEARCH INTERESTS

Classical analysis, Complex Analysis in one or several variables, Harmonic Analysis, Function Theory, Mathematical foundations of signal processing, Applications of mathematics to industry

PARTICIPATION IN FUNDED RESEARCH PROJECTS

1. *Técnicas relacionadas con el operador $\bar{\delta}$ y su aplicación a problemas clásicos de la teoría de funciones en dominios pseudoconvexos* (Ref: C.A.I.C.Y.T. No. 1593-82), 1983–1986, PI: Joaquin Ortega Aramburu, Amount: 10625
2. *Representación, aproximación e interpolación en espacios de funciones analíticas* (Ref: D.G.I.C.Y.T. No. PB85–0374), 1986–1989, PI: Joaquin Ortega Aramburu, Amount: 18361
3. *Cooperación en Análisis Complejo* (Ref: Comité Conjunto Hispano- Norteamericano, CCB-88609/004), 1988–, PI: Joaquim Bruna Floris, Amount: 2754
4. *La ecuación $\bar{\delta}u = f$. Aplicaciones a problemas clásicos de la teoría de funciones analíticas* (Ref: C.A.I.C.Y.T.PB89-0311), 1990–1993, PI: Joaquin Ortega Aramburu, Amount: 23870
5. *Análisis Complejo. Aspectos algebraicos, singularidades, regularidad y problemas de invariancia* (Ref: D.G.I.C.Y.T. No PB92-0804-C02-02), Mayo 93–Mayo 96, PI: Joaquim Bruna Floris, Amount: 27542
6. *Análisis en los dominios pseudoconvexos* (Ref: D.G.I.C.Y.T. Acción integrada hispano-francesa), 1995–1997, PI: Joaquim Bruna Floris, Amount: 6487
7. *Análisis complejo en una y varias variables* (Ref: D.G.I.C.Y.T. No PB95-0956-C02-02), Julio 1996–Julio 1999, PI: Joaquim Bruna Floris, Amount: 19585
8. *Métodos de Análisis Armónico y Complejo en Teoría de Funciones* (Ref: D.G.I.C.Y.T. PB98-1242-C02-02), Diciembre 1999–Diciembre 2002, PI: Joaquim Bruna Floris, Amount: 21421
9. *Grup de Teoria de Funcions de la UAB-UB* (Ref: C.I.R.I.T., Ajuts de suport als grups de recerca de qualitat, 2000 SGR 00059), 2000–2002, PI: Joaquim Bruna Floris, 2000 SGR 00059, Amount: 61204
10. *Classical Analysis, Operator Theory, Geometry of Banach spaces, their interplay and their applications* (Ref: U.E. Research training network HPRN-CT-2000-00116), May 2000–May 2004, PI: Joaquim Bruna, coordinador científic del nodeo de la UAB, Amount: 180000
11. *Singular Integrals and Function Theory* (Ref: U.E. Marie Curie Training Site HPMT-CT-2000-00053), September 2000–September 2004, PI: Joaquim Bruna, Amount: 158400
12. *Programa Iberdrola de Profesores visitantes en Ciencia y tecnología* (Ref: Fundación Iberdrola), 1999–2002, PI: Joaquim Bruna Floris, Amount: 6000
13. *Teoría geométrica de Funciones y Fundamentación Matemática de la Digitalización de Señales* (Ref: MCYT BFM2002-04072-C02-02), Octubre 2002–Octubre 2005, PI: Joaquim Bruna Floris, Amount: 80960
14. *Teoría de Funciones y sus conexiones con la teoría de la senyal* (Ref: MTM2005-08984), Octubre 2005–Octubre 2008, PI: Joaquim Bruna Floris, Amount: 78000
15. *Diversos aspectos de la teoría de funciones y aplicaciones* (Ref: MTM2008-05561), 2008–2011, PI: Joan J. Carmona, Amount: 79.134
16. *Generadores, frames y bases de los espacios de Lebesgue* (Ref: MTM2012-36378), 2012–2015, PI: Joaquim Bruna, Amount: 29.601

17. *Grup de Teoria de Funcions de la UAB-UB* (Ref: AGAUR, Ajuts de suport als grups de recerca de qualitat, 2001 SGR 00172), 2001–2005, PI: Joaquin Ortega Aramburu, Amount: 46878
18. *Grup de Teoria de Funcions de la UAB-UB* (Ref: AGAUR, Ajuts de suport als grups de recerca de qualitat, 2005 SGR 00611), 2005–2009, PI: Joaquin Ortega Aramburu, Amount: 61204
19. *Grup de Teoria de Funcions de la UAB-UB* (Ref: AGAUR, Ajuts de suport als grups de recerca de qualitat, 2009SGR1303), 2009–2013, PI: Carme Cascante Canut, Amount: 54080
20. *Grup de Teoria de Funcions de la UAB-UB* (Ref: AGAUR, Ajuts de suport als grups de recerca de qualitat, 2014SGR289), 2014–2016, PI: Carme Cascante Canut, Amount: 30000
21. *Consolider Ingenio Mathematica* (Ref: MINECO, CSD2006-00032), 2007–2011, PI: Marco Antonio Lopez Cerda, Amount: 7500000
22. *Espacios de funciones holomorfas y procesos de puntos* (Ref: MTM2017-83499-P), 2018–2021, PI: Joaquim Ortega-Cerda, Amount: 120.637
23. *Grup de Teoria de Funcions de la UAB-UB* (Ref: AGAUR, Ajuts de suport als grups de recerca de qualitat, 2017SGR358), 2017–2019, PI: Carme Cascante Canut, Amount: 20000
24. *Grup de Teoria de Funcions de la UAB-UB* (Ref: AGAUR, Ajuts de suport als grups de recerca de qualitat, 2017SGR358), 2017–2019, PI: Carme Cascante Canut, Amount: 20000
25. *Barcelona Graduate School of Mathematics* (Ref: MDM-2014-0445), 2015–2019, PI: Marc Noy, Amount: 2000000

PUBLICATIONS

1. *Cuasialitividad en clases de funciones de cuadrado sumable*, J.Bruna, Pub.Mat. UAB, **A (3)**, 16–22.1978
2. *Estudi d'una àlgebra topològica de funcions diferenciables*, J.Bruna, tesis doctoral, Pub.Mat. UAB, **A (6)**, 1–179.1978
3. *Una nota sobre cuasialitividad*, J.Bruna, unpublished, **S ()**, –.
4. *On algebras of quasianalytic functions*, J.Bruna, Collect. Math., **A (30(2))**, 113–123.1979
5. *An extension theorem of Whitney type for non-quasianalytic classes of functions*, J.Bruna, Journal London Math. Soc., **A (22(2))**, 459–505.1979
6. *The analytic Denjoy-Carleman algebras*, J.Bruna, Collect. Math., **A (30(3))**, 213–225.1979
7. *Sobre los conjuntos de interpolación de $A^\infty(D)$* , J.Bruna, Rev. Univ. Santander, **A (2(1))**, 103–105.1979
8. *On inverse-closed algebras of infinitely differentiable functions*, J.Bruna, Studia Mathematica, **A (69)**, 59–68.1980
9. *Spectral synthesis in non-quasianalytic classes of infinitely differentiable functions*, J.Bruna, Bulletin des Sciences Mathematiques, **A (104)**, 65–78.1980
10. *Conjuntos de interpolación para funciones holomorfas y regulares en la frontera*, J.Bruna, Pub. Mat. UAB, **A (21)**, 153–157.1980
11. *Les ensembles d'interpolation des $A^p(D)$* , J.Bruna, Comptes Rendus de l'Acad. Sciences Paris, serie A, **A (290(1))**, 25–27.1980
12. *Boundary interpolation sets for holomorphic functions smooth to the boundary and BMO*, J.Bruna, Transactions of the A.M.S., **A (264(2))**, 393–409.1981
13. *BMO and Muckenhoupt's weights in some boundary problems in one complex variable*, J.Bruna, Lecture Notes in Math., **A (980)**, 74–86.1982
14. *Conjunts de pic per a funcions holomorfes i lipschitzianes*, J.Bruna, Actualités mathematiques, **A ()**, 325–328.1982
15. *Free interpolation for holomorphic functions regular at the boundary*, J.Bruna-F.Tugores, Pacific Journal of Math., **A (108(1))**, 31–51.1983

16. *On the peak sets for holomorphic Lipschitz functions*, J.Bruna, Indiana Math. Journal, **A (32(2))**, 257–273.1983
17. *Ideaux de type fini dans les algebres $A^m(D)$* , J.Bruna-J.M.Ortega, Lecture Notes in Math., **A (1094)**, 20–28.1984
18. *Some explicit kernels for solving the $\bar{\delta}$ -equation in strictly convex domains*, J.Bruna-J.Cufí, unpublished, **S ()**, –.
19. *Closed finitely generated ideals in algebras of holomorphic functions smooth to the boundary in strictly pseudoconvex domains*, J.Bruna-J.M.Ortega, Math. Annalen, **A (268)**, 137–157.1984
20. *Núcleos de Cauchy en dominios estrictamente pseudoconvexos y operadores integrales que invierten la ecuación $\bar{\delta}$* , J.Bruna, Contribuciones Matemáticas en honor de Luis Vigil, **A ()**, 81–100.1984
21. *Hölder and L^p estimates for the $\bar{\delta}$ -equation in some convex domains with real-analytic boundary*, J.Bruna-J.Castillo, Math. Annalen, **A (269)**, 527–539.1984
22. *Holomorphic approximation in C^m -norms on totally real compact sets in \mathbb{C}^n* , J.Bruna-J.M.Burgués, Math. Annalen, **A (269)**, 103–117.1984
23. *Cauchy kernels in strictly pseudoconvex domains and an application to a Mergelyan type approximation problem*, J.Bruna-J.Cufi-J.Verdera, Math. Zeitschrift, **A (189)**, 41–53.1985
24. *Interpolation by holomorphic functions smooth to the boundary in the unit ball of \mathbb{C}^n* , J.Bruna-J.M.Ortega, Math. Annalen, **A (274)**, 527–575.1986
25. *A note on Calderon-Zygmund singular integral convolution operators*, J.Bruna-B.Korenblum, Bulletin Amer. Math. Soc., **A (16)**, 271–273.1987
26. *Holomorphic approximation and estimates for the $\bar{\delta}$ -equation in strictly pseudoconvex non smooth domains*, J.Bruna-J.M.Burgués, Duke Math. Journal, **A (55(3))**, 539–596.1987
27. *On holomorphic functions in the ball with absolutely continuous boundary values*, P.Ahern-J.Bruna, Duke Math. Journal, **A (56(1))**, 129–142.1988
28. *On Kolmogorov's theorem, the Hardy-Littlewood maximal function and the radial maximal function*, J.Bruna-B.Korenblum, Journal d'Analyse Mathématique, **A (50)**, 225–239.1988
29. *Boundary absolute continuity of functions in the ball algebra*, J.Bruna, Lecture Notes in Math., **A (1276)**, 55–60.1988
30. *Convex hypersurfaces and Fourier transforms*, J.Bruna-A.Nagel-S.Wainger, Annals of Mathematics, **A (127)**, 333–365.1988
31. *Maximal characterizations of Hardy-Sobolev spaces in the unit ball of \mathbb{C}^n* , P.Ahern-J.Bruna, Revista Matemática Iberoamericana, **A (4)**, 123–153.1988
32. *On the growth of the Hardy-Littlewood maximal function and the Hilbert transform*, J.Bruna, Lecture Notes in Math., **A (1384)**, 124–131.1989
33. *Interpolation in the class $A^{-\infty}$* , J.Bruna-D.Pascuas, Journal of the London Math.Soc., **A (40(2))**, 452–466.1989
34. *Restrictions to transverse curves of some function spaces in the unit ball of \mathbb{C}^n* , J.Bruna-C.Cascante, Michigan J. of Math., **A (36)**, 387–401. 1989
35. *On the modulus of absolute continuity of holomorphic functions in the ball*, P.Ahern-J.Bruna, Illinois J. Math., **A (34(3))**, 568–585.1990
36. *Traces of pluriharmonic functions on curves*, B.Berndtsson-J.Bruna, Arkive in Mathematics, **A (29(1))**, 221–230.1990
37. *Traces on curves of Sobolev spaces of holomorphic functions*, J.Bruna-J.M.Ortega, Arkive in Mathematics, **A (29(1))**, 25–49.1991
38. *Non-isotropic regularity in Sobolev spaces of holomorphic functions*, J.Bruna, Editel Seminars and Conferences, **A (5)**, 17–25.1991
39. *On A^∞ interpolating sets lying in curves*, J.Bruna-J.Ortega, Contemporary Mathematics, **A**

- (137), 93–104.1992
40. *A uniqueness theorem for invariantly harmonic functions in the unit ball of \mathbf{C}^n* , J.Bruna, Publicacions Matemàtiques, **A (36)**, 421–426.1992
 41. *A converse of the volume-mean-value property for invariantly harmonic functions*, J.Bruna-J.Detraz, Proc. Amer. Math. Soc., **A (122(4))**, 1029–1034.1994
 42. *On H^p -solutions of the Bezout equation*, E.Amar-J.Bruna-A.Nicolau, Pacific J. Math., **A (171(2))**, 297–307.1995
 43. *On H^p -solutions of the corona equation in the ball*, E.Amar-J.Bruna, Journal of Fourier Analysis, **A (1)**, 7–15 .1995
 44. *Zero sets of holomorphic functions in the unit ball with slow growth*, J.Bruna-X.Massaneda, Journal d'Analyse Mathématique, **A (66)**, 217–252.1995
 45. *Pluriharmonic interpolation and hulls of C^1 -curves in the unit sphere*, H.Alexander-J.Bruna, Revista Matemática Iberoamericana, **A (11(3))**, 547–568.1995
 46. *A note on interpolation in the Hardy spaces of the unit disc*, J.Bruna-A.Nicolau-K.Oyma, Proceedings of the Amer. Math. Soc., **A (124(4))**, 1197–1204.1996
 47. *H^p -theory for generalized M -harmonic functions in the unit ball*, P.Ahern-J.Bruna-C.Cascante, Indiana Math. Journal, **A (45)**, 103–135.1996
 48. *A construction of outer functions along curves*, J.Bruna, Journal of Functional Analysis, **A (140(1))**, 151–169.1996
 49. *On L^p solutions of the Laplace equation and zeros of holomorphic functions*, J.Bruna-J.Ortega Cerda, Annali della Scuola Normale Superiore di Pisa, **A (24(3))**, –.1997
 50. *Interpolation along manifolds in Hardy-Sobolev spaces*, J.Bruna-J.M.Ortega, The Journal of Geometrical Analysis, **A (7(1))**, 17–45.1997
 51. *On Hardy, BMO and Lipschitz spaces of invariantly harmonic functions in the ball*, A.Bonami-J.Bruna-S.Grellier, Proc. London Math. Soc., **A (3)**, –.1998
 52. *Zero varieties of the Nevanlinna class in convex domains of finite type*, J.Bruna-Y.Dupain-P.Charpentier, Annals of Mathematics, **A (147)**, 391–415.1998
 53. *Zero sets of H^p -functions in convex domains of strict finite type in C^n* , J.Bruna-S.Grellier, Complex Variables, **A (38)**, 243–261.1999
 54. *On truncations of Hankel and Toeplitz operators*, A.Bonami-J.Bruna, Publicacions Matemàtiques, **A (43)**, 235–250.1999
 55. *L^2 -estimates on chord-arc curves*, J.Bruna-M.J.Gonzalez, Pacific Journal of Mathematics, **A (190(2))**, 225–235.1999
 56. *Yves Meyer, un matemàtic vagabund*, J.Bruna-J.Verdera, Butlletí de la Societat Catalana de Matemàtiques, **A (19(1))**, 7–24.2004
 57. *Mapping properties of the laplacian in Sobolev spaces of forms on complete hyperbolic manifolds*, J.Bruna-J.Girbau, Annals of Global Analysis and Geometry, **A (25)**, 151–176.2004
 58. *L^p -estimates for Riesz transforms on forms in hyperbolic space*, J.Bruna, Indiana Univ. Math. J., **A (54(1))**, 153–187.2005
 59. *Completeness of discrete translates in $L^1(\mathbf{R})$* , J.Bruna-A. Olevskii-A.Ulanovskii, Revista Matemática Iberoamericana, **A (22)**, 1–16.2006
 60. *On translation and affine systems spanning $L^1(\mathbf{R})$* , J.Bruna, Journal of Fourier Analysis and Applications, **A (12)**, 71–82.2006
 61. *On translates of the Poisson kernel and zeros of harmonic functions*, J.Bruna-M.Melnikov, Bulletin of the London Math. Soc., **A (39)**, 317–326.2007
 62. *Generating functions of Lebesgue spaces by translations*, J.Bruna, Advanced Courses of Mathematical Analysis III, World Scientific,, **CL** (ISBN 978-981-281-844-7), 39–49.2008
 63. *Poisson type generators for $L^1(\mathbf{R})$* , J.Bruna-G.Ascensi, Journal of Fourier Analysis and appli-

- cations, **A** (15(4)), 553–560.2009
64. *Model space results for the Gabor and Wavelet transforms*, J.Bruna-G.Ascensi, IEEE Trans. Inform. Theory, **A** (55(5)), 2250–2259.2009
 65. *Characterizing Abelian Admissible groups*, J.Bruna-J.Cufi-H.Fuhr-M.Miro, Journal of Geometric Analysis, **25(02)** (1045-1074), 2015.

DISSEMINATION ARTICLES

1. *Anàlisi complexa: de la teoria de Cauchy a la teoria del potencial*, J.Bruna, Butlletí Soc. Cat. Mat., **A** (1), –. 1987
2. *Pere Menal i Brufal (1951-1991)*, J.Bruna, W.Dicks, Publicacions Matemàtiques, **A** (36), 355–358. 1993
3. *Una reflexió sobre los estudios de Matemáticas y sus perspectivas*, J.Bruna, La Gaceta Matemática, **A** (), –.2000
4. *Representació i mostratge de funcions: de les sèries de Fourier a la teoria d'ondetes*, J.Bruna, Butlletí de la Societat Catalana de Matemàtiques, **A** (14(1)), 31–62.1999
5. *Sampling in Complex and Harmonic Analysis*, J.Bruna, Progress in Mathematics, **A** (201), 225–246.2001
6. *Connections between signal processing and complex analysis*, J.Bruna-X.Massaneda-J.Ortega-Cerda, Contributions to Science, **A** (2(3)), 345–357.2003
7. *Yves Meyer, un matemàtic vagabund*, J.Bruna, J.Verdera, Butlletí de la Societat Catalana de Matemàtiques, **A** (19(1)), 7–24.2004
8. *Euler, sèries i funcio zeta*, J.Bruna, Butlletí digital FME-UPC, jornada Riemann 2007, **A** (), –.2007
9. *Some work by Beurling*, J.Bruna, Revista Matematica Iberoamericana, **A** (27(4)), 65–79.2011
10. *Aproximació no lineal i mostratge comprimit*, J.Bruna, Butlletí de la Societat Catalana de Matemàtiques, **A** (30(2)), 109–123.2015
11. *Ernest Coromines (1913-1992)*, J.Bruna-J.Cufí, Notícies de la Societat Catalana de Matemàtiques, **A** (36), 38-46.2014

BOOKS

1. J.Bruna-J.Cufi, Métodos actuales de la teoria de funciones holomorfas de varias variables, 1983, Publicaciones de la Univ.Extremadura.
2. J.Bruna, Real Analysis, 1996, Publicacions de la UAB.
3. J.Bruna-J.Cufí, Anàlisi Complexa, 2008, Publicacions de la UAB.
4. J.Bruna-J.Cufi, Selecta Ferran Sunyer i Balaguer, 2012, Arxius de les seccions de Ciències, CXLIV, Institut d'Estudis Catalans
5. J.Bruna-J.Cufi, Complex Analysis, 2013, EMS textbooks in Mathematics.
6. J.Bruna, Harmonic Analysis, in preparation for WS
7. J.Bruna, Differential and integral calculus in several variables, in preparation for WS

PHD THESIS SUPERVISION

1. *Joan del Castillo* in The Henkin kernel in convex domains, Joan del Castillo (year of defence: 1984).
2. *Josep Maria Burgués* in Holomorphic approximation and estimates for the $\bar{\partial}$ - equation in strictly pseudoconvex compact sets, Josep Maria Burgués (year of defence: 1985).

3. *Carme Cascante* in Restriction and interpolation theorems for holomorphic and pluriharmonic functions in submanifolds of the unit sphere, Carme Cascante (year of defence: 1987).
4. *Daniel Pascuas* in Zero sets and interpolation in spaces of holomorphic functions in the unit disk, Daniel Pascuas (year of defence: 1987).
5. *Francesc Tugores* in Estimates for the $\bar{\partial}$ -equation and the Bergman projection, Francesc Tugores (year of defence: 1991).
6. *Francesc Massaneda Clares* in Zero sets and interpolation in function spaces of slow growth, Francesc Massaneda Clares (year of defence: 1993).
7. *Joaquim Ortega Cerdà* in Zero varieties and interpolating sequences, Joaquim Ortega Cerdà (year of defence: 1995).
8. *Gerard Ascensi* in $L^p(\mathbb{R})$ -generators with time-frequency translates, Gerard Ascensi (year of defence: 2007).
9. *Margarida Miro* in Admissible functions and orthonormal wavelets in \mathbb{R}^n , Margarida Miro (year of defence: 2010).
10. *Nestor Costa* in Industrial Doctorate: mathematical aspects of optical encoders, Nestor Costa (year of defence: 2018).

COMMITTEES AND EDITORIAL ACTIVITIES

- Editor of "Publicacions Matemàtiques", 1989-1992
- Director of the Ferran Sunyer Balaguer Foundation, 1996-2000
- Governing Board of the Ferran Sunyer Balaguer Foundation, 1996-2016
- Educational Committee of ECMI, European Consortium for Mathematics in Industry, 1999-2002
- Executive Committee of ECMI, European Consortium for Mathematics in Industry, 2003-2004
- Committee to report on mathematical research in Catalonia, for Institut d'Estudis Catalans, in 1998.
- Committee of the Spanish National Programme in Physics and Mathematics, 2003
- Scientific Program Committee for the International Congress of Mathematicians 2006
- Committee to report on coordination between research and teaching activity, for AQU, 2003
- President of the Sciences committee of AQU, in charge of research accreditation, 2003-2007.
- Member of the jury of Premio Nacional de Investigación Julio Rey Pastor 2005, for Ministerio de Educación y Ciencia, 2005
- Member of the scientific committee of the Catalan Mathematical Society, 2004-2014
- Committee for Instituto Espanyol de Matemáticas, for the "Secretaria General de Política Científica", Ministerio de Educación y Ciencia, 2007.
- Governing Board of Consolider Mathematica i-math, 2006-2011
- Editor of Revista Matematica Iberoamericana, 2009-2018.
- Governing Board of the Barcelona Graduate School of Mathematics, 2014-2016

CONTRACTS, PATENTS, ENTREPRENEURSHIP AND INNOVATION

- Founder of the Mathematical Consulting Service of UAB and director from 1999 to 2002
- Optimal fleet study for Repsol, Minor Planet SA and Complex Systems, 2001
- Optimal digital pseudocodes for optical encoders, for Hohner Iberica, 2013
- A tool for optimal task allocation, for Ferrovial Servicios, 2015
- European patent EP18382082.2, An optical incremental encoder, a mask for an optical incremental encoder and a method to calculate the shape of mask slots in optical incremental encoders, 2018.

- With Rafael Sala and Ricard Alemany, cofounder of RISKRANGE S.L., an online financial rating tool 2015-2017 (presently dissapeared)

HONORS

- "Premio Extraordinario de licenciatura" 1975
- Premi Martí d'Ardenya de l'Institut d'Estudis Catalans 1979
- "Distinció de la Generalitat de Catalunya per a la Recerca Universitària", 2001-2006
- Medalla Narcís Monturiol de la Generalitat de Catalunya, 2012