Short Curriculum Vitae

Diego Córdoba Gazolaz

January 2026

Address

Instituto de Ciencias Matemáticas
Consejo Superior de Investigaciones Científicas,
C/Nicolás Cabrera 13-15,
Campus de Cantoblanco Madrid 28049.
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Education

Undergraduate June 1994
Universidad Autónoma de Madrid, Madrid.
Mathematics.

Master January 1996
Princeton University, Princeton, New Jersey.
Mathematics.

Ph.D June 1998
Princeton University, Princeton, New Jersey.
Mathematics.
Ph.D Advisor: Prof. Charles Fefferman

Appointments

Member in the Institute for Advanced Study Sep 1998 - Jul 1999
Institute for Advanced Study, Princeton.

L. E. Dickson Instructor Sep 1998 - Jul 2001
Department of Mathematics, University of Chicago, Chicago.

Assistant Professor Sep 2001 - Sep 2002
Department of Mathematics, Princeton University, Princeton.

Ramon y Cajal Jan 2002 - Jun 2003
IMAFF, Consejo Superior de Investigaciones Científicas, Madrid.

Investigador Científico Jun 2003 - May 2009
IMAFF, Consejo Superior de Investigaciones Científicas, Madrid.

Profesor de Investigación Jun 2009 - Current
ICMAT, Consejo Superior de Investigaciones Científicas, Madrid.

Visiting Positions

Research Collaborator Jan 1999 - Apr 1999
Department of Mathematics, Princeton University, Princeton.

Research Visitor Sep 2000 - Nov 2000
Department of Mathematics, University of Texas, Austin.

Profesor Titular Interino Oct 2001 - Jan 2002
Departamento de Matemáticas, Universidad Autónoma de Madrid.

Profesor Honorario Oct 2003 - Oct 2005
Departamento de Matemáticas, Universidad Autónoma de Madrid.

Profesor Honorario Oct 2010 - Oct 2011
Departamento de Matemáticas, Universidad Autónoma de Madrid.

Visiting Research Scholar Sep 2014 - Jul 2015
Department of Mathematics, Princeton University, Princeton.

Research Visitor Jan 2022 - April 2022
Institute for Advanced Study, Princeton.

Research Visitor Nov 2025 - Dec 2025
Feishu Institute, Shanghai.

Awards and Honors

- American Institute of Mathematics Postdoctoral Fellowship (January 99- April 99).
- Alfred P. Sloan Doctoral Dissertation Fellowships (1997-1998).
- Clay Mathematical Emissary (September 2000).
- Programa Ramon y Cajal. 1 position in Mathematics. MCYT, 2001.
- SEMA Prize (Sociedad Española de Matemática Aplicada) for young researcher (2005).
- Starting independent research grant of the European Research Council (2008-2013).
- Miguel Catalán young Award 2011 from Comunidad Autónoma de Madrid.
- Minerva Distinguished Visitor at the Math. Department of Princeton University from September 2014 until February 2015.
- Scientific director of the Severo Ochoa program at the ICMat Jan 2016 - April 2028.
- Invited speaker (PDE session), Inter. Congress of Mathematicians, Rio de Janeiro 2018.
- Advanced Research Grant of the European Research Council (2018-2024).
- Margarita Salas Medal award 2022 for research supervision from CSIC.
- 2023 'Julio Rey Pastor' Spanish National Research Prize in the field of Mathematics and Information and Communication Technologies.
- 2024 Corresponding new member of the Royal Academy of Sciences of Spain.

Research Interests

Partial Differential Equations, Analysis and Fluid Mechanics.

Current Ph.D and Master students

- José Antonio Lucas (FPI Fellowship, expected to finish in spring 2027)
- Andres Laín Sanclemente (ERC Contract, expected to finish in spring 2027)
- Mencía Reborido Fuentes (FPI Fellowship, expected to finish in spring 2029)
- José Antonio Fuentes Mesa (ICMat Master Fellowship 2025-2026)

Former Ph.D students

Francisco Gancedo, Ph.D 2007 (FPU Fellowship 2003-2007)
First job after leaving ICMat: L.E. Dickson Instructor at University of Chicago
Currently Professor Catedrático at the Universidad de Sevilla

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Angel Castro, Ph.D 2010 (FPI Fellowship 2006-2010)
First job after leaving ICMat: Postdoc at Ecole Normale Sup. in Paris
Currently Investigador Científico at the ICMat-CSIC

Rafael Granero, Ph.D 2013 (FPI Fellowship 2009-2013)
Advised jointly with Rafael Orive
First job after leaving ICMat: 'Arthur J. Krener' Assistant Prof. at Univ. of California, Davis.
Currently Profesor Titular at the University of Cantabria.

Name: Javier Gomez-Serrano, Ph.D 2013 (ERC contract 2009-2013)
First job after leaving ICMat: Instructor at Princeton University
Currently Professor at Brown University

Name: Tania Pernas, Ph.D 2017 (FPI Fellowship 2013-2017)
First jobs after leaving ICMat: Profesora Ayudante at the Universidad Autónoma de Madrid and Postdoc at the University of Bonn

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Name: Daniel Lear, Ph.D 2019 (Caixa Fellowship and SO Contract 2014-2019)
Advised jointly with Angel Castro
First job after leaving ICMat: Lecturer at University of Illinois at Chicago
Currently "Ramón y Cajal" Research Fellow at the University of Cantabria

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Name: Victor Cañulef-Aguilar (FPI Fellowship 2019-239
First job after leaving ICMat: Universidad de Chile
Currently Post-doc at the Universidad de Chile

Name: Luis Martínez-Zoroa, Ph.D 2023 (ERC Contract 2019-23)
First job after leaving ICMat: Post-doc at the University of Basel
Currently Assistant Professor (Tenure track) at CUNEF University

Publications

Research Papers

1. "On the geometry of solutions of the quasi-geostrophic and Euler equations", *Proc. Natl. Acad. Sci.*, 94 (1997), 12769-12770.
2. "Nonexistence of simple hyperbolic blow-up for the quasi-geostrophic", *Ann. of Math.*, 148 (1998), 1135-1152.
3. "On the behavior of hyperbolic neutral points in two-dimensional ideal magnetohydrodynamics",(with C. Marliani), *Proc. Natl. Acad. Sci.*, 96 (1999), 2612-2614.
4. "Evolution of Current Sheets and Regularity of Ideal Incompressible Magnetic Fluids in 2D", (with C. Marliani), *Comm. Pure and Appl. Math.* Vol LIII (2000), 0512-0524.
5. "Behavior of several 2D fluid equations in singular scenarios" (with C.Fefferman) *Proc. Natl. Acad. Sci.*, 98 (2001), 4311-4312.
6. "On the collapse of tubes carried by 3D incompressible flows", (with C.Fefferman) *Comm. Math. Phy.*, 222 (2001), 293-298.
7. "On the critical dissipative quasi-geostrophic equation", (with P. Constantin & J. Wu) *Indiana Univ. Math. J.*, 50 (2001), 97-107.
8. "Scalars convected by a 2D incompressible flow", (with C.Fefferman) *Comm. Pure and Appl. Math.* 55 (2002), 255-260.
9. "Growth of solutions for QG and 2D Euler equations" (with C.Fefferman) *Journal Amer. Math. Soc.*, 15 (2002), 665-670.
10. "Potato chip singularities of 3D flows", (with C.Fefferman) *SIAM J. Math. Anal.*, 33 (2002), 786-789.
11. "Drops: The collapse of capillary jets" (with A. Córdoba, C.Fefferman & M. Fontelos) *Proc. Natl. Acad. Sci.*, 99 (2002), 11006-11007.
12. "A pointwise estimate for fractionary derivatives with applications to P.D.E." (with A. Córdoba) *Proc. Natl. Acad. Sci.*, 100 (2003), 15316-15317.
13. "Almost sharp fronts for the surface quasi-geostrophic equations" (with C. Fefferman & J.L. Rodrigo) Proc. Natl. Acad. Sci., 101 (2004), 2687-2691.
14. "On Squirt singularities in hydrodynamics" (with C.Fefferman & R. de la LLave) *SIAM J. Math. Anal.*, 36 (1), 204-213, (2004).
15. "A geometrical constraint for capillary jet breakup" (with A. Córdoba, C.Fefferman & M. Fontelos) *Adv. Math.*, 187 (1), 228-239, (2004).

16. "A maximum principle applied to Quasi-geostrophic equations" (with A. Córdoba) *Comm. Math. Phy.*, 249 (3), 511-528, (2004).
17. "Finite time singularities in a 1D model of the quasi-geostrophic equations." (with D. Chae, A. Córdoba & M. Fontelos) *Advances in Math*, 194, 203-223, (2005).
18. "Evidence of singularities for a contour dynamical system"(with M. Fontelos, A. Mancho & J.L. Rodrigo) *Proc. Natl. Acad. Sci.*, 102 (17), 5949-5952, (2005).
19. "Formation of singularities for a transport equation with nonlocal velocity" (with A. Córdoba & M. Fontelos) *Annals of Math*, 162 (3), 1377-1389, (2005).
20. "Integral inequalities for the Hilbert transform applied to a non-local transport equation" (with A. Córdoba & M. Fontelos) *J. Math. Pure Appl.*, 86 (6), 529-540, (2006).
21. "Analytical behavior of 2D incompressible flow in porous media" (with F. Gancedo & R. Orive), J. Math. Phys. (2007), no. 6, 065206, 19 pp.
22. "Contour dynamics of incompressible 3-D fluids in a porous medium with different densities" (with F. Gancedo), Comm. Math. Phys. (2007), no. 2, 445171.
23. "Global existence, singularities and Ill-possednes for a non-local flux" (with A. Castro), Advances in Math. 219 (2008), 6, 1916-1936.
24. "A note on the interface dynamics for convection in porous media" (with F. Gancedo & R. Orive), Physica D 237 (2008), 1488-1497.
25. " Self-similar solutions for a transport equation with non-local flux" (with A. Castro) Chinese Annals of Math. Series B. 30 (2009), 5, 505-512.
26. " Incompressible flow in porous media with fractional diffusion" (with A. Castro, F. Gancedo & R. Orive) Nonlinearity 22 (2009), 8, 1791-1815.
27. " The Rayleigh-Taylor condition for the evolution of irrotational fluid interfaces" (with A. Córdoba & F. Gancedo), Proc. Natl. Acad. Sci. 106 (2009), 27, 10955-10959.
28. " A maximum principle for the Muskat problem with different densities" (with F. Gancedo) Comm. Math. Phys. 286 (2009), 2, 681-696.
29. "On the regularity of the solutions to the 3D Navier-Stokes equations: a remark on the role of the helicity" (with Luigi C. Berselli), Comptes Rendus Mathematique 347 (2009), 613-618.
30. "Interface evolution: water waves in 2-D" (with A. Córdoba & F. Gancedo), Advances in Math. 223 (2010), 1, 120-173.
31. "Absence of squirt singularities for the multi-phase Muskat problem." (with F. Gancedo.) Comm. Math. Phys. 299 (2010), 2, 561-575.
32. "Infinite energy solutions of the surface quasi-geostrophic equation." (with A. Castro.) Advances in Math. 225 (2010) 18201729.
33. "Singularity formations for a surface wave model" (with A. Castro & F. Gancedo.) Nonlinearity 11 (2010) 2835-2849.
34. "Interface evolution: the Hele-Shaw and Muskat problems" (with A. Córdoba & F. Gancedo), Annals of Math. 173 (2011), (1), 477-544.

35. "Turning waves and breakdown for incompressible flows" (with A. Castro, C. Fefferman, F. Gancedo & M. Lopez), Proc. Natl. Acad. Sci. 108 (2011), 12, 4754-4759.

36. " Lack of uniqueness for weak solutions of the incompressible porous media equation." (with D. Faraco & F. Gancedo.), Archives Rational Mech. Ana. 200 (2011), 3, 725-746.

37. " Splash singularity for water waves". (with A. Castro, C. Fefferman, F. Gancedo, and J. Gómez-Serrano.), *Proceedings of the National Academy of Sciences*, 109(3):733-738, (2012).

38. "Rayleigh-Taylor breakdown for the Muskat problem with applications to water waves" (with A. Castro, C. Fefferman, F. Gancedo & M. López-Fernández), Annals of Math. 175 (2): 909-948 (2012).

39. "Generalized SQG equation with singular velocities" (with D. Chae, P. Constantin, F. Gancedo & J. Wu), Comm. Pure Appl. Math. 65 (8): 1037-1066 (2012).

40. "Finite time singularities of water waves with surface tension" (with A. Castro, C. Fefferman, F. Gancedo & J. Gómez-Serrano). J. Math. Phys. 53, 115622 (2012).

41. "On the global existence for the Muskat problem" (with P. Constantin, F. Gancedo & R. Strain), J. Eur. Math. Soc. 15, 201-227, (2013).

42. "Porous media: the Muskat problem in 3D " (with A. Córdoba & F. Gancedo), Analysis & PDE., 6, no. 2, 447177 (2013).

43. "Breakdown of smoothness for the Muskat problem" (with A. Castro, C. Fefferman & F. Gancedo), Arch. Ration. Mech. Anal., 208, no. 3, 805-909 (2013).

44. "Finite time singularities for the free boundary incompressible Euler equations" (with A. Castro, C. Fefferman, F. Gancedo & J. Gomez-Serrano), Annals of Math, 178, no. 3, 1061-1134 (2013).

45. "Structural stability for the splash singularities of the water waves problem." (with A. Castro, C. Fefferman, F. Gancedo & J. Gómez-Serrano), Discrete Contin. Dyn. Syst., 34, no. 12, 49971743 (2014).

46. "Local solvability and turning for the inhomogeneous Muskat problem" (with L. Berselli & R. Granero). Interfaces and Free Boundaries,16, no. 2, 175173 (2014) .

47. "The confined Muskat problem: differences with the deep water regime" (with R. Granero & R. Orive). Comm. Math. Sci., 12, no. 3, 423175 (2014).

48. "Remarks on geometric properties of SQG sharp fronts and α-patches" (with A. Castro, J. Gomez-Serrano & A. Martin). Discrete Contin. Dyn. Syst., 34, no. 12, 50451759 (2014).

49. "A note in stability shifting for the Muskat problem" (with J. Gómez-Serrano & A. Zlatos). Philos. Trans. R. Soc. Lond. Ser. A Math. Phys. Eng. Sci. 373 (2015) no.2050, 20140278,10pp.

50. "Splash and almost-Splash stationary solutions to the Euler equations" (with A. Enciso & N. Grubic). Advances in Math. 288(2016) 922-941.

51. “Existence and regularity of rotating global solutions for the generalized surface quasi-geostrophic equations” (with A. Castro & J. Gómez-Serrano), Duke Math Journal. 165 (2016), no. 5, 935174.
52. “Splash singularities for the one-phase Muskat problem in stable regimes”(with A. Castro, C. Fefferman & F. Gancedo), Arch. Ration. Mech. Anal. (2016), Volume 222, Issue 1, pp 213173
53. “Uniformly rotating analytic global patch solutions for active scalars” (with A. Castro & J. Gómez-Serrano), Annals of PDE 2 (2016), no. 1, Art. 1, 34 pp.
54. “On the Muskat problem: global in time results in 2D and 3D” (with P. Constantin, F. Gancedo, Luis Rodriguez-Piazza & R. Strain), Amer. J. Math. 138 (2016), no. 6, 14551794.
55. “Non-splat singularity for the one-phase Muskat problem17(with T. Pernas), Trans. Amer. Math. Soc. Vol. 369, no.1, (2017), 711-754.
56. “A note on stability shifting for the Muskat problem II: Stable to Unstable and back to Stable” (with J. Gómez-Serrano & A. Zlatos), Anal. PDE 10 (2017), no. 2, 367-378.
57. “Uniqueness for SQG patch solutions” (with A. Córdoba & F. Gancedo) Trans. Amer. Math. Soc. Ser. B 5 (2018), 1-31.
58. “On the splash and splat singularities for the one-phase inhomogeneous Muskat Problem ” (with T. Pernas) Journal Nonlinear Sci. 28 (2018), no. 6, 20771726.
59. “Uniformly rotating smooth solutions for the incompressible 2D Euler equations” (con A. Castro & J. Gómez-Serrano). Arch. Ration. Mech. Anal., 231(2019), no.2, 719-785.
60. “Global existence of quasi-stratified solutions for the confined IPM equation” (con A. Castro & D. Lear). Arch. Ration. Mech. Anal, 232 (2019), no.1, 437-471.
61. “Splash singularities for the free boundary Navier-Stokes equations” (con A. Castro, C. Fefferman, F. Gancedo & J. Gómez-Serrano), Ann. PDE 5 (2019), no.1, Art.12, 117pp.
62. “Global solutions for the generalized SQG patch equation” (with J. Gómez-Serrano & A. D. Ionescu). Arch. Ration. Mech. Anal. 233 (2019) no3. 1211-1251.
63. “On the asymptotic stability of stratified solutions for the 2D Boussinesq equations with a velocity damping term” (with A. Castro & D. Lear). Math. Models Methods Appl. Sci. 29 (2019), no. 7, 1227-1277.
64. “Global smooth solutions for the inviscid SQG equation” (with A. Castro & J. Gómez-Serrano). Mem. Amer. Math. Soc. 266 (2020), no. 1292, v+89 pp.
65. ”Mixing solutions for the Muskat problem” (with A. Castro & D. Faraco). Inventiones Mathematicae, 2021, 226(1), pp. 251 - 348.
66. ”The lifespan of classical solutions for the inviscid Surface Quasi-geostrophic equation”. (with A. Castro & F. Zheng) Ann. Inst. H. Poincar Anal. Non Linaire, 2021, 38(5), pp. 1583 - 1603.
67. ”Self-intersecting interfaces for stationary solutions of the two-fluid Euler equations” (with A. Enciso & N. Grubic). Annals of PDE. Annals of PDE, 2021, 7(1), 12.

68. "Global well-posedness for the 2D stable Muskat problem in $H^{\frac{3}{2}}$" (with O. Lazar). Ann. Sci. 07c. Norm. Supr. (4) 54 (2021), no. 5, 1315C1351.
69. "Non existence and strong ill-posedness in C^k and Sobolev spaces for SQG" (with L. Martínez-Zoroa). Adv. Math. 407 (2022), Paper No. 108570.
70. "Local wellposedness for the free boundary incompressible Euler equations with interfaces that exhibit cusps and corners of nonconstant angle" (with Alberto Enciso & Nastasia Grubic). Advances in Math. 433, 2023, 109299.
71. "Stability of traveling waves for the Burgers-Hilbert equation" (with Angel Castro & Fan Zheng). Analysis & PDE. Vol. 16 (2023), No. 9, pp. 2109-2145.
72. "Instantaneous gap loss of Sobolev regularity for the 2D incompressible Euler equations" (with Luis Martínez-Zoroa & Wojciech Ozanski). Duke Math Journal, 2024, 173(10), pp. 1931-1971.
73. "Non-existence and strong ill-posedness in $C^{k,\beta}$ for the generalized Surface Quasi-geostrophic equation" (with Luis Martínez-Zoroa). Communications in Mathematical Physics, 2024, 405(7), 170.
74. "Global unique solutions with instantaneous loss of regularity for SQG with fractional diffusion" (with Luis Martínez-Zoroa). Annals of PDE, 10 (21), 2024.
75. "Non Existence and Strong Ill-Posedness in H^2 for the Stable IPM Equation" (with R. Bianchini & L. Martínez-Zoroa). Journal of Functional Analysis, 289 (9), 2025.
76. "Instantaneous continuous loss of regularity for the SQG equation" (with L. Martínez-Zoroa & Wojciech S. Ozański). Adv. Math. 481 (2025), Paper No. 110553, 49 pp.
77. "Finite time singularities to the 3D incompressible Euler equations for solutions in $C^\infty(R^3 \setminus 0) \cap C^{1,\alpha} \cap L^2$" (with L. Martinez-Zoroa & F. Zheng). Annals of PDE, 11 (19), 2025.
78. "Finite-time singularity via multi-layer degenerate pendula for the 2D Boussinesq equation with uniform $C^{1,\sqrt{\frac{4}{3}}-1-\epsilon} \cap L^2$ force" (with A. Laín-Sanclemente & L. Martínez-Zoroa) Advances in Math. 480 (2025) 110480.
79. "Strong ill-posedness and non-existence in Sobolev spaces for generalized-SQG" (with J. Lucas-Manchn & L. Martínez-Zoroa) Nonlinearity, 2025, 38(8), 085021.
80. "Finite-time singularity formation for angled-crested water waves" (with Alberto Enciso & Nastasia Grubic) Preprint arXiv:2303.00027. To appear in Duke Math Journal.

Articles in Proceedings, Surveys, press articles and Chapter of books

1. "Vortex stretching by a simple hyperbolic saddle", "Applied and Industrial Mathematics Venice-2, 1998" , *Kuwler Acad. Pub*, January 2000.
2. "Finite time singularities in trasport equations with nonlocal velocities and fluxes", (with A. Córdoba & M. Fontelos), *Proceedings of Equadiff.*, (2005).
3. "Charles Louis Fefferman, la potencia del Análisis", (with A. Córdoba)*La Gaceta, de la RSME.*, Vol. 7 (3), 757-765, (2004).

4. "Las matemáticas de los fluidos: torbellinos, gotas y olas", (with M. Fontelos & J.L. Rodrigo), *La Gaceta, de la RSME.*, Vol. 8 (3), 53-83, (2005).
5. "On the search of singularities in incompressible flows", Mathematical theory in Fluid Mechanics, Paseky , *No 4 Appl. Math. - Paseky Proceedings*, (2006).
6. "Dinámica de frentes de la ecuación 2D Quasi-geostrófica", *Boletin de SEMA* (2007).
7. "Contour dynamics for 2D active scalars", (with F. Gancedo), Newsletter of the European Mathematical Society 71 (2009), March, 25-28.
8. "Some recent results on the Muskat problem", (with A. Castro & F. Gancedo.), *Proceedings de Journées "Equations aux Derivees Partielles" (Port d'Albret, 2010).*
9. "Las ecuaciones de Navier-Stokes", *Jornadas RSME 2011, Los problemas del milenio (Barcelona, 1-3 junio 2011).*
10. "A naive parametrization for the vortex-sheet problem.", (with A. Castro & F. Gancedo.), *Mathematical aspects of fluid mechanics. London Math. Soc. Lecture Notes Series: 402, Cambridge Univ. Press, Cambridge (2012).*
11. "La dinámica de las olas del mar", *La Gaceta, de la RSME.*, Vol. 15 (4), 751-763, (2012).
12. "La tierra: un planeta con mares y atmósfera", (with A. Córdoba), *Unidad Didáctica "Matemáticas del Planeta Tierra": Fundación Española para la Ciencia y la Tecnología* , 47-61, (2014).
13. "Ad honorem Charles Fefferman" (with A. Córdoba, E. Stein, T. Tao, L. Nirenberg, J. Kohn, A. Chang, C.R. Graham, B. Klartag, J. Frohlich, L. Seco, M. Weinstein) Notices Amer. Math. Soc. 64 (2017), no. 11, 1254-1273.
14. "El gran encuentro de las matemáticas mundiales", (with A. Timón), *Investigación y Ciencia.*, 507 Diciembre (2018).
15. "Water waves with or without surface tension", (with Ch. Fefferman), *Handbook of Mathematical Analysis in Mechanics of Viscous Fluids*, Springer, April 2018, Pages 1329-1349.
16. "Interface dynamics for incompressible flows: Splash and Splat singularities.", *Proc. Int. Cong. of Math. 172018 Rio de Janeiro*, Vol. 2 (2187-2208), (2018).
17. "Grandes retos en las ecuaciones de los fluidos", (with A. Castro), *El País.*, 7 Septiembre (2020).
18. "Nuevas técnicas para estudiar mezclas de fluidos turbulentos", (with A. Castro & D. Faraco), *El País.*, 7 Abril (2021).
19. "Singularidades en 3D: El desafío matemático de Euler y Navier-Stokes", (with L. Martínez-Zoroa), *Lva2*, January (2026).

Preprints (submitted)

1. "Finite time blow-up for the hypodissipative Navier Stokes equations with a force in $L^1_t C^{1,\epsilon} \cap L^2$ force" (with L. Martinez-Zoroa & F. Zheng) Preprint arxiv:2407.06776.

2. "Finite time singularities of smooth solutions for the 2D incompressible porous media (IPM) equation with a smooth source" (with L. Martnez-Zoroa) Preprint arXiv:2410.22920.
3. "Blow-up for the incompressible 3D-Euler equations with uniform $C^{1,1/2-\epsilon} \cap L^2$ force (with L. Martinez-Zoroa) Preprint arxiv:2309.08495.
4. "Splash-squeeze singularities and analytic breakdown in ideal incompressible MHD" (with A. Enciso, M. Hernandez) Preprint arXiv:2512.02144.

Editorial boards

- Managing editor of Revista Matemática Iberoamericana, since 2019.
- Editorial board of Nonlinear Analysis: Real World Applications 2013-2025.
- Editorial board of Interfaces and Free Boundaries since 2020.
- Editorial board of SEMA journal since 2021.
- Editorial board of Journal of Differential Equations since 2025.

Participation in research projects (national and/or international, in the last 5 years)

Project title: Dinámica singular de fluidos incompresibles.
Funding Source: Ministerio de Ciencia e Innovación. PID2023-152878NB-I00
Period: September 2024 - August 2027 Amount: 62.600 Euros
PI: Diego Córdoba Number of researchers: 6

Project title: ICMAT Severo Ochoa project
Funding Source: MINECO. CEX2023- 001347-S
Period: May 2024 - April 2028 Amount: 5.600.000 Euros
PI: Diego Córdoba Number of researchers: 100

Project title: Red de ecuaciones en derivadas parciales no locales y aplicaciones
Funding Source: Ministerio de Ciencia e Innovación. RED2022-134784-T
Period: Junio 2023 - Mayo 2025 Amount: 17.000 Euros
PI: Diego Córdoba. Number of researchers: 30

Project title: Dinámica de fluidos incompresibles.
Funding Source: Ministerio de Ciencia e Innovación. PID2020-114703GB-I00
Period: January 2022 - December 2024 Amount: 72.600 Euros
PI: Diego Córdoba and Angel Castro Number of researchers: 7

Project title: ICMAT Severo Ochoa project
Funding Source: MINECO. CEX2019-000904-S

Period: January 2020 - December 2023 Amount: 4.000.000 Euros
PI: Diego Córdoba Number of researchers: 100

Project title:Non-local dynamics in incompressible fluids .
Funding Source: European Research Council (Advanced Grant) ERC-2017-AdG
Period: 01/09/2018 - 31/08/2024 Amount: 1.800.000 Euros
PI: Diego Córdoba Number of researchers: 5

Project title: Formación de singularidades en fluidos incompresibles.
Funding Source: Ministerio de Ciencia e Innovación. MTM2017-89976-P
Period: January 2018 - December 2020 Amount: 51.441 Euros
PI: Diego Córdoba Number of researchers: 10

Project title: ICMAT Severo Ochoa project
Funding Source: MINECO. SEV-2015-556
Period: January 2016 - December 2019 Amount: 4.000.000 Euros
PI: Diego Córdoba Number of researchers: 100

Project title: Global existence vs Blow-up in some nonlinear PDEs arising in fluid mechanics
Funding Source: European Commision FP7-PEOPLE-2013-IEF
Period: 01/10/2014 - 30/09/2016 Amount: 166.336,20 Euros
PI: Diego Córdoba Number of researchers: 2