

Short Curriculum Vitae

Diego Córdoba Gazolaz

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Address

Instituto de Ciencias Matemáticas
Consejo Superior de Investigaciones Científicas,
C/Nicolás Cabrera 13-15,
Campus de Cantoblanco Madrid 28049.
Tel : 912999798 email : *dcg@icmat.es*

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 Department of Mathematics, Princeton University, Princeton.	Jan 1999 - Apr 1999
Research Visitor Department of Mathematics, University of Texas, Austin.	Sep 2000 - Nov 2000
Profesor Titular Interino Departamento de Matemáticas, Universidad Autónoma de Madrid.	Oct 2001 - Jan 2002
Profesor Honorario Departamento de Matemáticas, Universidad Autónoma de Madrid.	Oct 2003 - Oct 2005
Profesor Honorario Departamento de Matemáticas, Universidad Autónoma de Madrid.	Oct 2010 - Oct 2011
Visiting Research Scholar Department of Mathematics, Princeton University, Princeton.	Sep 2014 - Jul 2015
Research Visitor Institute for Advanced Study, Princeton.	Jan 2022 - April 2022

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. Ministerio de Ciencia y Tecnología, año 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 from January 2016 until 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.
- Premio Nacional de Investigación Julio Rey Pastor 2023.
- 2024 Corresponding new member of the Royal Academy of Sciences of Spain.

Research Interests

Partial Differential Equations, Analysis and Fluid Mechanics.

Current Ph.D students

- Jose Antonio Lucas (FPI Fellowship, expected to finish in spring 2027)
- Andres Laín (ERC Contract, expected to finish in spring 2027)

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 Titular at the Universidad de Sevilla

Angel Castro, Ph.D 2010 (FPI Fellowship 2006-2010)
First job after leaving ICMat: Postdoc at Ecole Normale Sup. in Paris
Currently Científico Titular 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 Asociado 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 and Universitat de Barcelona

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

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

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-Zorúa, Ph.D 2023 (ERC Contract 2019-23)
First job after leaving ICMat: University of Basel
Currently Post-doc at the University of Basel

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. Phys.*, 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. Phys.*, 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-posedness 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 problem”(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. Poincaré Anal. Non Linéaire, 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. Éc. 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-Zorúa). *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-Zorúa & 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" (con Luis Martínez-Zorúa). *Communications in Mathematical Physics*, 2024, 405(7), 170.
74. "Global unique solutions with instantaneous loss of regularity for SQG with fractional diffusion" (con Luis Martínez-Zorúa). *Annals of PDE*, 10 (21), 2024.

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" , *Kuwer Acad. Pub*, January 2000.
2. "Finite time singularities in transport 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", *Boletín 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 Derivées 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).

Preprints (submitted)

1. “Finite time singularities of smooth solutions for the 2D incompressible porous media (IPM) equation with a smooth source” (with L. Martinez-Zoroa) Preprint arXiv:2410.22920.
2. “Non Existence and Strong Ill-Posedness in H^2 for the Stable IPM Equation” (with R. Bianchini & L. Martínez-Zoroa) Preprint arXiv:2410.01297.
3. “Instantaneous continuous loss of regularity for the SQG equation” (with L. Martínez-Zoroa & Wojciech S. Ożański) Preprint arXiv:2409.18900.
4. “Finite time blow-up for the hypodissipative Navier Stokes equations with a force in $L_t^1 C^{1,\epsilon} \cup L^2$ force” (with L. Martinez-Zoroa & F. Zheng) Preprint arxiv:2407.06776.
5. “Blow-up for the incompressible 3D-Euler equations with uniform $C^{1,1/2-\epsilon} \cup L^2$ force (with L. Martinez-Zoroa) Preprint arxiv:2309.08495.
6. “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) Preprint arxiv:2308.12197.
7. “Finite-time singularity formation for angled-crested water waves” (with Alberto Enciso & Nastasia Grubic) Preprint arXiv:2303.00027.

Editorial boards

- Managing editor of Revista Matemática Iberoamericana, since 2019.
- Editorial board of Nonlinear Analysis: Real World Applications since 2013.
- 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