

Joaquín PÉREZ

Last update: May 12, 2018

PERSONAL DATA

PLACE AND DATE OF BIRTH: Tarifa, Cádiz (Spain) | November 14, 1966
SCHOOL ADDRESS: Departamento de Geometría y Topología
Facultad de Ciencias, Universidad de Granada
Campus Fuentenueva, 18071 Granada (Spain)
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SCOPUS AUTHOR ID: 35797522100
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ORCID ID: 0000-0003-1877-8884
GOOGLE SCHOLAR: scholar.google.com/citations?user=GK5bCXQAAAAJ&hl=es

EDUCATION

March 1996 Doctorado en Matemáticas (Ph.D. Mathematics), **University of Granada**
Thesis: "Superficies minimales en \mathbb{R}^3 " ("Minimal surfaces in \mathbb{R}^3 ")
Advisor: Prof. Antonio Ros
July 1989 Examen de Grado - Tesina (M.S. Mathematics), **University of Granada**
Little thesis: "La aplicación de Gauss de las superficies mínimas en \mathbb{R}^3 "
("The Gauss map of minimal surfaces in \mathbb{R}^3 ") Advisor: Prof. Antonio Ros
July 1989 Licenciatura en Ciencias Matemáticas (B.A. Mathematics)
University of Granada
June 1984 B. Sc. at Instituto Mixto no 2, Algeciras (Cádiz)

RESEARCH AREAS

Differential Geometry • Geometric Analysis • Minimal surfaces • Surfaces with constant mean curvature • Isoperimetric problem

LANGUAGES

SPANISH: Mothertongue
ENGLISH: Fluent

COMPUTER SKILLS

Basic Knowledge: HTML, LINUX, ubuntu, 3D Studio, CorelDraw, Excel
Intermediate Knowledge: \LaTeX , Word, Open Office, WordPress, Wolfram Mathematica, IPE, Surface Evolver

PROFESSIONAL EXPERIENCE

Teaching / Research positions

<i>March 7, 2007 - Present</i>	Catedrático de Universidad (Full Professor) Department of Geometry and Topology, University of Granada (UGR)
<i>February 20, 1998 – March 6, 2007</i>	Profesor Titular de Universidad (Associate Professor) Department of Geometry and Topology, UGR
<i>April 25, 1997 – February 19, 1998</i>	Profesor Titular Interino de Universidad (Assistant Professor) Department of Geometry and Topology, UGR
<i>October 1, 1996 – April 24, 1997</i>	Profesor Asociado Tipo III (Senior Lecturer with Ph. D. Thesis) Department of Geometry and Topology, UGR
<i>October 1, 1991 – September 30, 1996</i>	Profesor Asociado Tipo II (Senior Lecturer without Ph. D. Thesis) Department of Geometry and Topology, UGR
<i>October 1, 1989 – September 30, 1991</i>	Profesor Asociado Tipo I (Lecturer) Department of Geometry and Topology, UGR

Management positions

<i>October 2015 – Present</i>	Director of the Mathematics Research Institute IEMath-GR University of Granada
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PROFESSIONAL SERVICE

<i>2015 – Present</i>	Evaluator of research projects in Differential Geometry National Institutes of Sciences and Technology (INCT) Program CNPq (Brazil)
<i>2014 – Present</i>	Evaluator in hiring processes for professors at Greek Universities APELLA SYSTEM (Greece)
<i>2014 – 2015</i>	Member of the Management Board of the International Excellence Campus GENIL (Granada Excellence Network of Innovation Laboratories)
<i>2014</i>	Evaluator of research projects of the EPSRC (Engineering and Physical Sciences Research Council, United Kingdom)
<i>2013 – Present</i>	Member of the International Relations Commission of the RSME Royal Mathematical Society of Spain
<i>June 2012 – March 2013</i>	Commissioner of the Mathematics exhibition IMAGINARY-RSME Mathematics Institute Oberwolfach (Germany) - RSME - Parque de las Ciencias de Granada
<i>2011-2014</i>	Coordinator in Spain of the French-Spanish Network on Geometric Analysis (members: CNRS, Université Marné-la-Vallée, Université Paris est Creteil val de Marne, Université François-Rabelaise Tours, Université de Bretagne Occidentale Brest, Universidad de Granada, Universidad de Murcia, Universidad de Valencia, CSIC).
<i>2010</i>	Director of the RSME-Santalo Summer School 2010 on Geometric Analysis (MIGS-C6-0384 – CONSOLIDER I-MATH)
<i>2008 – 2011</i>	Member of the Platform Committee MIGS (Mathematics International Graduate School) of the Project Consolider i-MATH
<i>2008</i>	Evaluator of research projects in Geometry and Topology National Plan of Mathematics, Ministry of Science and Education

Referee for the following Journals:

Acta Mathematica, American Journal of Mathematics, Annals of Mathematics, Archiv der Mathematik, Calculus of Variations and PDE's, Commentarii Mathematici Helvetici, Communications in Analysis and Geometry, Comptes Rendus Mathématique, Duke Mathematical Journal, Geometriae Dedicata, Inventiones Mathematicae, Journal of the American Mathematical Society, Journal of Differential Geometry, Illinois Journal of Mathematics, Math. Review Letters, Mathematische Zeitschrift, Proceedings of the American Mathematical Society, Revista Matemática Complutense.

PUBLICATIONS

1993

1. Joaquín Pérez & Antonio Ros, *Some uniqueness and nonexistence theorems for embedded minimal surfaces*, Mathematische Annalen, vol. 295 (1993) 513–525.

1996

2. Joaquín Pérez & Antonio Ros, *Properly embedded minimal surfaces with finite total curvature*, in Geometry and Topology of Submanifolds VIII, Proceedings of the 1995 Nordfjordeid Conference, Norway, ISBN 981-02-2776-0 (1996) 280–281.
3. Joaquín Pérez & Antonio Ros, *The space of properly embedded minimal surfaces with finite total curvature*, Indiana Univ. Math. J., vol. 45 (1996) 177–204.
4. Joaquín Pérez, *Superficies minimales en \mathbb{R}^3* , PhD Thesis, University of Granada (1996).

1997

5. Joaquín Pérez, *On singly-periodic minimal surfaces with planar ends*, Transactions of the AMS, vol. 349, no. 6 (1997) 2371–2389.

1998

6. Joaquín Pérez, *Riemann bilinear relations on minimal surfaces*, Mathematische Annalen, vol. 310, no. 2 (1998) 307–332.
7. William H. Meeks III, Joaquín Pérez & Antonio Ros, *Uniqueness of the Riemann minimal examples*, Inventiones Mathematicae, vol. 133, no. 1 (1998) 107–132.
8. Joaquín Pérez, *Strong rigidity and periodic minimal surfaces*, in Proceedings of the 1st International Meeting on Geometry and Topology (Editors A. Pereira do Vale & R. Pinto), Depósito Legal 129516/98, Braga, Portugal (1998) 169–174.

1999

9. Joaquín Pérez, *A rigidity theorem for periodic minimal surfaces*, Communications in Analysis and Geometry, vol. 7, no. 1 (1999) 95–104.
10. Joaquín Pérez & Antonio Ros, *The space of complete minimal surfaces with finite total curvature as lagrangian submanifold*, Transactions of the AMS, vol. 351, no. 10 (1999) 3935–3952.

2001

11. Laurent Hauswirth, Joaquín Pérez & Pascal Romon, *Embedded minimal ends of finite type*, Transactions of the AMS, vol. 353, no. 4 (2001) 1335–1370.

2002

12. Joaquín Pérez & Antonio Ros, *Properly embedded minimal surfaces with finite total curvature*, in The Global Theory of minimal surfaces in flat spaces, Lecture Notes in Math, Springer-Verlag, vol. 1775 (2002) 15–66.
13. Joaquín Pérez & Antonio Ros, *Properly embedded minimal annuli bounded by a convex curve*, Journal of the Institute of Mathematics of Jussieu, vol. 1, no. 2 (2002) 293–305.

2003

14. Francisco J. López & Joaquín Pérez, *Parabolicity and Gauss map of minimal surfaces*, Indiana University Math Journal, vol. 4, no. 52 (2003) 1017-1026.
 15. Francisco Martín & Joaquín Pérez, *Superficies minimales foliadas por circunferencias: los ejemplos de Riemann*, Gaceta de la RSME, vol. 6, no. 3 (2003) 571-596.
- 2004**
16. Laurent Hauswirth, Joaquín Pérez, Pascal Romon & Antonio Ros, *The periodic isoperimetric problem*, Transactions of the AMS, vol. 356 (2004) 2025-2047.
 17. William H. Meeks III, Joaquín Pérez & Antonio Ros, *The geometry of minimal surfaces of finite genus I; curvature estimates and quasiperiodicity*, Journal of Differential Geometry, vol. 66, no. 1 (2004) 1-45.
 18. William H. Meeks III, Joaquín Pérez & Antonio Ros, *The geometry of minimal surfaces of finite genus II; nonexistence of one limit end examples*, Inventiones Mathematicae, vol. 158, no. 3 (2004) 323-341.
 19. William H. Meeks III & Joaquín Pérez, *Conformal properties in classical minimal surface theory*, in *Surveys in Differential Geometry IX, Eigenvalues of the Laplacian and other geometric operators*, International Press (2004) 275-336.
- 2005**
20. Joaquín Pérez, *Parabolicity and minimal surfaces*, in *The Global Theory of Minimal Surfaces*, Clay Mathematics Proceedings, vol. 2 (2005) 163-174, ISSN: 1534-6455, ISBN: 0-8218-3587-4.
 21. Joaquín Pérez, *Uniqueness of the Riemann minimal surfaces*, in *The Global Theory of Minimal Surfaces*, Clay Mathematics Proceedings, vol. 2 (2005) 597-610, ISSN: 1534-6455, ISBN: 0-8218-3587-4.
 22. Joaquín Pérez, Magdalena Rodríguez & Martin Traizet, *The classification of doubly periodic minimal tori with parallel ends*, Journal of Differential Geometry, vol. 69, no. 3 (2005) 523-577.
 23. Joaquín Pérez, *Limits by rescalings of minimal surfaces, minimal laminations, curvature decay and local pictures*, notes of course in the Workshop Moduli spaces of properly embedded minimal surfaces, American Institute of Mathematics (2005)
- 2006**
24. William H. Meeks III, Joaquín Pérez & Antonio Ros, *Liouville properties for embedded minimal surfaces*, Communications in Analysis and Geometry, vol. 14, no. 4 (2006) 703-723.
- 2007**
25. Joaquín Pérez & Martin Traizet, *The classification of singly periodic minimal surfaces with genus zero and Scherk type ends*, Transactions of the AMS, vol. 359, no. 3 (2007) 965-990.
 26. Joaquín Pérez, *Stable minimal surfaces bounded by a straight line*, Calculus of Variations and Partial Differential Equations, vol. 29, no. 2 (2007) 267-279.
- 2008**
27. William H. Meeks III, Joaquín Pérez & Antonio Ros, *Stable constant mean curvature surfaces*, in *Handbook of Geometric Analysis*, no. 1, International Press (2008) 301-380. ISBN: 978-1-57146-130-8.
- 2009**
28. William H. Meeks III & Joaquín Pérez, *Properly embedded minimal planar domains with infinite topology are Riemann minimal examples*, in *Current Developments in Mathematics 2008*, International Press (2009) 281-346. ISBN: 978-1-57146-139-1.
- 2010**

29. William H. Meeks III, Joaquín Pérez & Antonio Ros, *Limit leaves of a CMC lamination are stable*, Journal of Differential Geometry, vol. 84, no. 1 (2010) 179-189.

2011

30. José Manzano, Joaquín Pérez & Magdalena Rodríguez, *Parabolic stable surfaces with constant mean curvature*, Calculus of Variations and Partial Differential Equations, vol. 42 (2011) 137-152.
31. William H. Meeks III & Joaquín Pérez, *The classical theory of minimal surfaces*, Bulletin of the AMS, vol. 48, no. 3 (2011) 325-407.

2012

32. William H. Meeks III & Joaquín Pérez, *A survey on classical minimal surface theory*, University Lecture Series (AMS), vol. 60 (2012) 182 pages, ISBN: 978-0-8218-6912-3.
33. William H. Meeks III & Joaquín Pérez, *Constant mean curvature surfaces in metric Lie groups*, in *Geometric Analysis: Partial Differential Equations and surfaces*, Contemporary Mathematics (AMS), vol. 570 (2012) 25-110.

2014

34. William H. Meeks III, Pablo Mira, Joaquín Pérez & Antonio Ros, *Isoperimetric domains of large volume in homogeneous three-manifolds*, Advances in Mathematics, vol. 264 (2014) 546-592.

2015

35. William H. Meeks III, Joaquín Pérez & Antonio Ros, *Properly embedded minimal planar domains*, Annals of Mathematics, vol. 181, no. 2 (2015) 473-546.

2016

36. William H. Meeks III & Joaquín Pérez, *CMC foliations of closed manifolds*, The Journal of Geometric Analysis, vol. 26, no. 3 (2016) 1647-1677.
37. William H. Meeks III & Joaquín Pérez & Antonio Ros, *Local removable singularity theorems for minimal laminations*, Journal of Differential Geometry, vol. 103, no. 2 (2016) 319-362.
38. William H. Meeks III, Joaquín Pérez & Antonio Ros, *The Dynamics Theorem for properly embedded minimal surfaces*, Mathematische Annalen, vol. 365 (2016) 1069-1089.
39. William H. Meeks III & Joaquín Pérez, *The Riemann minimal examples*, in *The Legacy of Bernhard Riemann after one hundred and fifty years*, Advanced Lectures in Mathematics, Higher Education Press (Beijing) and International Press (Boston) vol. 35 (2016) 417-457. ISBN: 978-704-031875-3.
40. William H. Meeks III, Joaquín Pérez & Antonio Ros, *The classification of CMC foliations of \mathbb{R}^3 and \mathbb{S}^3 with countably many singularities*, American Journal of Mathematics, vol. 138, no. 5 (2016) 1347-1382.
41. William H. Meeks III, Joaquín Pérez & Giuseppe Tinaglia, *Constant mean curvature surfaces*, in *Surveys in Differential Geometry XXI*, International Press (2016) 179-287. ISBN: 9781571463227.

2017

42. Joaquín Pérez, *Una nueva edad de oro de las superficies mínimas*, Gaceta de la RSME, vol. 20, no. 5 (2017) 193-211.
43. Joaquín Pérez, *A new golden age of minimal surfaces*, Notices of the AMS, vol. 64, no. 4 (2017) 347-358.
44. William H. Meeks III & Joaquín Pérez, *Finite type annular ends for harmonic functions*, Mathematische Annalen, vol. 367, no. 3 (2017) 1047-1056. DOI:10.1007/s00208-016-1407-0.

45. William H. Meeks III, Pablo Mira & Joaquín Pérez, *Embeddedness of spheres in homogeneous three-manifolds*, International Mathematics Research Notices, vol. 2017, no. 15 (2017) 4796–4813. DOI: 10.1093/imrn/rnw159.
46. William H. Meeks III & Joaquín Pérez, *Finite topology minimal surfaces in homogeneous three-manifolds*, Advances in Mathematics, vol. 312 (2017) 185–197.

Accepted (to appear)

46. William H. Meeks III, Joaquín Pérez & Antonio Ros, *The local picture theorem on the scale of topology*, Journal of Differential Geometry.
47. William H. Meeks III & Joaquín Pérez, *Embedded minimal surfaces of finite topology*, Journal für die reine und angewandte Mathematik (Journal de Crelle). DOI: 10.1515/crelle-2017-0008.
48. William H. Meeks III, Pablo Mira & Joaquín Pérez, *The geometry of stable minimal surfaces in metric Lie groups*, Transactions of the AMS.

Submitted

49. William H. Meeks III, Pablo Mira, Joaquín Pérez & Antonio Ros, *Constant mean curvature spheres in homogeneous three-spheres*.
50. William H. Meeks III, Joaquín Pérez & Antonio Ros, *Structure theorems for singular minimal laminations*.
51. William H. Meeks III, Joaquín Pérez & Antonio Ros, *Bounds on the topology and index of classical minimal surfaces*.
52. William H. Meeks III, Pablo Mira, Joaquín Pérez & Antonio Ros, *Constant mean curvature spheres in homogeneous three-manifolds*.

PROFESSIONAL PRESENTATIONS

1995

1. Speaker at the *Conference on Pure Differential Geometry*, Nordfjordeid (Norway). Title: Properly embedded minimal surfaces with finite total curvature.

1996

2. Speaker at the *International Conference on Differential Geometry*, IMPA (Rio de Janeiro, Brazil). Title: One-ended minimal surfaces with finite total curvature and convex planar boundary.
3. Speaker at the Geometry Seminar of the University of Massachusetts at Amherst (three talks). Titles: The moduli space near a nondegenerate minimal surface / The lagrangian second fundamental form for moduli space / One-ended minimal surfaces with convex planar boundary.

1997

4. Speaker at the *1st International Meeting on Geometry and Topology*, Braga (Portugal). Title: Strong rigidity and periodic minimal surfaces.

1998

5. Speaker at the Geometry Seminar of the University of Massachusetts at Amherst. Title: Uniqueness of the Riemann minimal examples.
6. Speaker at the conference *Aspects Geometriques et Analytiques des problemas a la courbure*, Marseille-Luminy (France). Title: Minimal surfaces of finite type end helicoidal ends.
7. Speaker at the Geometry Seminar of the University of Granada (two talks). Titles: Unicidad de los ejemplos de Riemann I, II.

1999

8. Speaker at the Geometry Seminar of the University of Granada. Title: Comportamiento asintótico de las superficies minimales embebidas de tipo finito.
9. Speaker at the conference *Global theory of minimal surfaces in flat spaces*, Martina Franca (Italy). Title: Asymptotic behavior of complete embedded minimal surfaces of finite type.

2001

10. Speaker at the Geometry Seminar of the University of Granada. Title: Parabolicidad y superficies minimales.
11. Speaker at the conference *Clay Mathematical Institute Summer School on Minimal Surfaces*, MSRI-Berkeley (California, USA). Title: Parabolic minimal surfaces.
12. Speaker at the conference *Clay Mathematical Institute Summer School on Minimal Surfaces*, MSRI-Berkeley (California, USA). Title: Uniqueness of the Riemann minimal surfaces.

2002

13. Speaker at the Geometry Seminar of the Université Paris VII. Title: Parabolicity and Gauss map of minimal surfaces.

2004

14. Speaker at the Geometry Seminar of the University of Granada. Title: Clasificación de los toros minimales doblemente periódicos con finales paralelos.
15. Speaker at the Geometry Seminar of the Institut de Mathematiques de Jussieu, Paris. Title: Doubly periodic minimal tori with parallel ends.

2005

16. Plenary speaker at the conference *Moduli spaces of properly embedded minimal surfaces*, Palo Alto (California, USA). Title: Rescaling methods on minimal surfaces: minimal laminations, curvature decay and local pictures.
17. Speaker at the conference *Moduli spaces of properly embedded minimal surfaces*, Palo Alto (California, USA). Title: Singly periodic minimal surfaces with genus zero and Scherk-type ends.
18. Speaker at the *Geometry Day*, University of Granada. Title: Superficies mínimas estables con borde una recta.

2007

18. Speaker at the Geometry Seminar of the Universidad Autónoma de Barcelona. Title: Superficies mínimas en \mathbb{R}^3 : algunos problemas actuales.
19. Speaker at the conference *International Congress on minimal and constant mean curvature surfaces*, Buzios (Brazil). Title: Uniqueness of the Riemann minimal examples.
20. Speaker at the Geometry Seminar of the University of Granada. Title: La ecuación de Korteweg-de Vries y la clasificación de los ejemplos de Riemann.
21. Speaker at the Advanced School *The Poincaré Conjecture: Ricci flow and applications* (IMATH-CONSOLIDER), University of Granada. Title: Extinción en tiempo finito del flujo de Ricci.
22. Speaker at the Geometry Seminar of the University of Granada (two talks). Titles: Clasificación de los ejemplos de Riemann I-II.

2008

23. Speaker at the conference *Minimal and CMC surfaces: Research in Pairs*, Kloster Schöntal (Germany). Title: KdV equation and Riemann minimal examples.
24. Speaker at the conference *Workshop on recent advances in Geometry and Topology of submanifolds*, Roma (Italy). Title: The Stable Limit Leaf Theorem.
25. Speaker at the conference *Current Developments in Mathematics*, Harvard University (USA). Title: Classification of properly embedded minimal planar domains: the Shiffman function and the KdV equation.

2009

26. Speaker at the conference *Arbeitsgemeinschaft: minimal surfaces*, Mathematisches Forschungsinstitut Oberwolfach (Germany). Title: Embedded minimal surfaces with finite topology.
27. Speaker at the Geometry Seminar of the University of Granada. Title: Finales mínimos anulares de curvatura total infinita.
28. Three-hour course at the conference *Escuela de Analisis Geométrico*, Universidad de Granada (Spain). Title: Superficies mínimas y problema isoperimétrico.

2010

29. Speaker at the conference *Algebraic, Geometric and Analytic aspects of surface theory*, Buzios (Brazil). Title: Nonnegative Schrödinger operators on parabolic manifolds.
30. Speaker at the Geometry Seminar of the University of Granada (two talks). Titles: Superficies con CMC en grupos de Lie métricos tridimensionales I-II.

2011

31. Speaker at the Geometry Seminar of the University of Granada. Title: Superficies con CMC en grupos de Lie métricos tridimensionales III.
32. Speaker at the conference *Spanish-Japanese Workshop on Differential Geometry*, Universidad de Granada (Spain). Title: CMC spheres in three-dimensional metric Lie groups.
33. Three-hour course at the International Summer School *Minimal and Constant Mean Curvature Surfaces*, Universidad de Sevilla (Spain). Title: CMC surfaces in metric Lie groups.
34. Speaker at the conference *Congreso de Clausura del Proyecto i-MATH*, CIEM Castro Urdiales (Spain). Title: Actividades i-MATH enfocadas a jóvenes investigadores: Escuela Santaló de la RSME 2010 y EU-Young Mobile Workshop 2011.

2012

35. Speaker at the Geometric Analysis session in the international conference *II Encuentro conjunto RSME-SMM*, Torremolinos (Spain). Title: Surfaces in homogeneous manifolds.
36. Speaker at the Geometry Seminar of the University of Warwick (UK). Title: CMC spheres in three-dimensional metric Lie groups.
37. Speaker at the Stanford University Colloquium (USA). Title: Classification of constant mean curvature spheres in metric Lie groups.
38. Speaker at the Geometry Seminar of the University of Granada. Title: Superficies mínimas con crecimiento de curvatura cuadrático.

2013

39. Speaker at the Geometric Analysis session in the conference *Congreso Bienal RSME 2013*, Santiago de Compostela (Spain). Title: Cheeger constant, critical mean curvature and isoperimetric problem in homogeneous 3-manifolds.
40. Speaker at the Geometry Seminar of the University of Granada. Title: Dominios isoperimétricos con gran volumen en 3-variedades homogéneas.

41. Speaker at the conference *Progress in surface theory*, Mathematics Institute Oberwolfach (Germany). Title: Isoperimetric domains with large volume in simply connected homogeneous 3-manifolds.
42. Speaker at the *Conference on submanifolds and Spin Geometry*, Institut Élie Cartan, Lorraine (France). Title: Isoperimetric domains with large volume in simply connected homogeneous 3-manifolds.
43. Speaker at the *Conference on qualitative and geometric aspects of elliptics PDEs*, Centre de Recerca Matemàtica, Barcelona (Spain). Title: Quadratic decay of curvature on minimal surfaces.

2014

44. Speaker at the conference *2nd Japanese-Spanish Workshop of Differential Geometry*, Tokyo Institute of Technology (Japan). Title: Weak CMC foliations with singularities of \mathbb{R}^3 .
45. Speaker at the conference *IV workshop de Geometria Diferencial*, Instituto de Matemática da Universidade Federal de Alagoas (Brazil). Title: Foliations with leaves of constant mean curvature.
46. Speaker at the *Warwick-Imperial-Cambridge Geometric Analysis Seminar*, University of Cambridge (UK). Title: CMC foliations of closed manifolds.
47. Plenary speaker at the *5th Iberian Mathematical Meeting*, University of Aveiro (Portugal). Title: Existence of foliations with leaves of constant mean curvature in compact manifolds.

2015

48. Speaker at the conference *Minimal surfaces, Overdetermined problems and Geometric Analysis*, ICTP-CIMPA Research School, Santiago de Chile. Title: Existence of CMC foliations.
49. Speaker at the conference *30° Coloquio Brasileiro de Matemática*, IMPA (Rio de Janeiro, Brazil). Title: Rescaling by topology and minimal surfaces with finite topology.
50. Speaker at the conference *1st joint Meeting Brazil-Spain in Mathematics*, University of Fortaleza (Brazil). Title: Embedded minimal surfaces: a panoramic view.

2016

51. Speaker at the Geometry Seminar of the University of Granada. Title: Laminaciones mínimas en \mathbb{R}^3 y la conjetura de Hoffman-Meeks.
52. Speaker at the Seminar *Topics in Geometric Analysis*, jointly organized by Freie Universität Berlin, Potsdam University and the Max Planck Institute. Title: Minimal laminations in Euclidean three-space.
53. Plenary speaker at the conference *1er Coloquio de Geometría en el Sur+Este*, University of Murcia (Spain). Title: Laminaciones mínimas en \mathbb{R}^3 y la conjetura de Hoffman-Meeks.
54. Speaker at the conference *Foliations 2016*, Institute of Mathematics at Bedlewo (Poland). Title: Minimal laminations and the Hoffman-Meeks Conjecture.
55. Speaker at the Geometry Seminar of the University of Granada. Title: Stable minimal surfaces in semidirect products.
56. Speaker at the round table discussion *The future of Mathematical Research in Spain*. Organized by the CEMat (Spanish Committee of Mathematics). Venue of the Royal Academy of Sciences, Madrid. December 19, 2016.

2017

57. Speaker at the Workshop *Minimal surfaces: integrable systems and visualisation*, University College Cork (Ireland). Title: CMC spheres in homogeneous 3-manifolds, II.

58. Speaker at the Geometry Seminar of the Department of Mathematics at King's College London (UK). Title: CMC spheres in homogeneous 3-manifolds.
59. Speaker at the Geometry Seminar of the Department of Mathematics of the University of Santiago de Compostela (Spain). Title: Introducción a las superficies mínimas (6 hours).

2018

60. Plenary speaker at the *7th Iberoamerican Congress on Geometry*, Valladolid, Spain. Title: Classification of spheres with constant mean curvature in homogeneous 3-manifolds.

PH.D. STUDENTS

1. María Magdalena Rodríguez Pérez, *Superficies minimales doblemente periódicas con género uno y finales paralelos*, University of Granada 2005.
2. José Miguel Manzano Prego, *Superficies con curvatura media constante en espacios homogéneos*, University of Granada 2012 (co-advised with Magdalena Rodríguez Pérez).

POSTDOCTORAL FELLOWS SUPERVISED

1. Filippo Morabito (PhD University of Rome, Italy), 2008.
2. Rami Younes (PhD University of Tours, France), 2008.
3. Hojoo Lee (PhD KIAS, South Korea), 2011-2012.
4. Alvaro Kruger (PhD Universidade Federal do Rio Grande do Sul, Brazil), 2013-2014.
5. Çağrı Hacıyusufoglu (University of Kac, Turkey), 2014-2015.

CURRENT RESEARCH SUPPORT

Jan 1, 2018 – Dec 31, 2020	Title: ANALISIS GEOMETRICO (GEOMETRIC ANALYSIS) Funding source: MINECO / FEDER (partially supported by the Ministry of Economy and Competitiveness of Spain and the European Union) Code number: MTM2017-89677-P Main researchers: Joaquín Pérez & Antonio Alarcón Total number of researchers in the project: 15 Total budget: 139.392 €
Oct 21, 2017 - Oct 20, 2021	Title: Unidad de excelencia IEMath-GR Founding source: Vicerrectorado de Investigación y Transferencia (Vice-Rectorate for Research and Knowledge Transfer), UGR Main researcher: Joaquín Pérez Total budget: 45.000 €
Jan 1, 2015 – Dec 31, 2018	Title: ANALISIS GEOMETRICO (GEOMETRIC ANALYSIS) Funding source: MINECO / FEDER (partially supported by the Ministry of Economy and Competitiveness of Spain and the European Union) Code number: MTM2014-52368-P Main researcher: Joaquín Pérez Total number of researchers in the project: 16 Total budget: 201.586 €
Sep 2016 – Aug 2019	Title: MINIMAL SURFACES: INTEGRABLE SYSTEMS AND VISUALISATION Funding source: The Leverhulme Trust (UK) Main researcher: Katryn Leschke (University of Leicester, UK) Total budget: £ 105.502
Jan 1, 2015 - May 31, 2017	Title: RED ESPAÑOLA DE ANALISIS GEOMETRICO (GEOMETRIC ANALYSIS SPANISH NETWORK) Founding source: MINECO (Ministry of Economy and Competitiveness, Spain) Code number: MTM2014-57309-REDT Main researcher: José Antonio Gálvez

PAST RESEARCH SUPPORT (5 YEARS)

Jan 1, 2012 – Dec 31, 2015	Title: ANALISIS GEOMETRICO (GEOMETRIC ANALYSIS) Funding source: MINECO / FEDER (partially supported by the Ministry of Economy and Competitiveness of Spain and the European Union) Code number: MTM2011-22547 Main researcher: Joaquín Pérez Total number of researchers in the project: 17 Total budget: 243.210 €
Nov 2012 – Oct 2015	Title: SUPERFICIES ESTÁVEIS: ASPECTOS GEOMÉTRICOS DA RELATIVIDADE GERAL E TEORIA DE CORDAS Funding source: CNPq - Brazil Main researcher: José María Espinar (IMPA, Rio de Janeiro) Total budget: R\$ 30.000
Jan 2010 – Dec 2013	Title: ANALISIS GEOMETRICO Y APLICACIONES (GEOMETRIC ANALYSIS AND APPLICATIONS) Funding source: Conserjería de Educación y Ciencia, Junta de Andalucía (Regional Government) Code number: P09-FQM 5088 Main researcher: Antonio Ros
Jan 1, 2007 – Dec 31, 2013	Title: ANALISIS GEOMETRICO (GEOMETRIC ANALYSIS) Funding source: MINECO / FEDER (partially supported by the Ministry of Economy and Competitiveness of Spain and the European Union) Code number: MTM2007-61775 Main researcher: Antonio Ros Total number of researchers in the project: 17 Total budget: 500.819 €

HONORS AND GRANTS

1991	Grant of the International University Menéndez-Pelayo for the summer course <i>Mathematical Analysis and the problems of Continuum Physics</i>
1989	Extraordinary award to Graduate Studies in Mathematics (Licenciatura) - University of Granada
1988 - 1989	Collaboration Grant at the Department of Geometry and Topology, University of Granada

MEMBERSHIPS

Royal Mathematical Society of Spain