OSCAR GARCIA-PRADA

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PERSONAL

Nationality: Spanish, DNI No: 09254367H, Passport No: PAN080460 (Spain)

EDUCATION

D.Phil. in Mathematics, 1991, Wolfson College, University of Oxford, UK (*Thesis Supervisors*: Professors Simon K. Donaldson and Nigel J. Hitchin)
M.A. in Mathematics, 1988, Rice University, Houston (USA)
(*Adviser*: Professor Raymond O. Wells)
Licenciatura in Mathematics, 1986, Universidad de Valladolid (Spain)
Licenciatura in Physics, 1983, Universidad de Barcelona (Spain)

POSITIONS

2008–	*Profesor de Investigación*, Consejo Superior de Investigaciones Científicas, Madrid (Spain)
2002–08	*Investigador Científico*, Consejo Superior de Investigaciones Científicas, Madrid (Spain)
1997–02	*Profesor Titular*, Universidad Autónoma de Madrid (Spain)
1997–00	*Professeur Associé*, École Polytechnique, Palaiseau (France)
1994–97	*Profesor Titular Interino*, Universidad Autónoma de Madrid (Spain)
1993–95	HCM Postdoctoral Fellow, Université de Paris-Sud, Orsay (France)
1992–93	Fulbright Scholar, University of California at Berkeley (USA)
1991–92	Member, IHES, Bures-sur-Yvette (France)

RESEARCH INTERESTS

Differential and algebraic geometry and its relationship with the equations of mathematical physics. Current projects include the areas of

Higgs bundles
Representations of surface groups
Non-abelian Hodge theory
Higher Teichmüller theory
Langlands duality
Moduli spaces of vector bundles with additional structure
Gauge theory and dimensional reduction
Moment map equations and infinite dimensional manifolds

GRANTS AND FELLOWSHIPS

2024-27	Ministerio de Ciencia e Innovación (3 year AEI-DFG collaboration research grant with Germany, PCI2024-155103-2)
2023-26	Ministerio de Ciencia e Innovación (3 year research grant PID2022-141387NB-C21)
2023-25	Ministerio de Ciencia Innovación (2 year grant for the Spanish Network in Geometry and Physics, RED2022-134463-T)
2020-22	Ministerio de Ciencia e Innovación (3 year research grant PID2019-109339GB-C31)
2020-22	Ministerio de Ciencia, Innovación y Universidades (2 year grant for the Spanish Network in Geometry and Physics, RED2018-102810-T)
2017-18	Consejo Superior de Investigaciones Científicas, Spain (2 year grant to collaborate with China and Hong Kong, I-LINK1107)
2017-19	Ministerio de Economía y Competitividad, Spain (3 year research grant, MTM2016-81048-P)
2014-17	Marie Curie IRSES Programme, European Commission Indo-European collaboration on moduli spaces (MODULI)
2014-16	Ministerio de Economía y Competitividad, Spain (3 year research grant, MTM2013-43963-P)
2011-13	Ministerio de Ciencia e Innovación, Spain (3 year research grant, MTM2010-17717)
2009-14	European Science Foundation, ITGP Network
2010-12	Marie Curie Individual Fellowship, European Commission (2 year visit to Madrid of Professor Christian Pauly)
2007-10	Ministerio de Educación y Ciencia, Spain (3 year research grant, MTM2007-67623)
2008	Ingenio Mathematica - Programa consolider, Spain (Semester on Moduli Spaces grant, PMII-C2-0054)
2006-07	CSIC, Spain/CNRS, France (bilateral programme, 2005FR0040).
2006-07	Royal Society bilateral grant UK/Spain, Moduli spaces
2005-06	CSIC/CAM Research grant, Geometry of moduli spaces
2006	CSIC conference grant, Geometry Conference in Honour of Nigel Hitchin
2006-07	Bilateral programme CSIC, Spain/CNRS, France Geometry and dynamics of surface group representations
2006-07	Bilateral programme CSIC, Spain/GRICES, Portugal Higgs bundles and topology of moduli spaces
2005–06	Ministerio de Educación y Ciencia, Spain (Red Temática de Geometría y Física *Acciones Complementarias* MTM2004-22206-E)
2005–06	DAAD, Germany/Ministerio de Educación y Ciencia, Spain (bilateral programme *Acciones Integradas* HA2004–0083)
2004–07	Ministerio de Educación y Ciencia, Spain (3 year research grant MTM2004-07090)
2004–05	Ministère de la Recherche, France/Ministerio de Ciencia y Tecnología, Spain (bilateral programme *Acciones Integradas* HF2003–0264)
2003–05	Royal Society, UK/CSIC, Spain (bilateral programme)
2003–04	Ministerio de Ciencia y Tecnología, Spain (Red Temática de Geometría y Física *Acciones Especiales* BFM-2002-11010-E)
2003–05	Ministerio de Ciencia, Portugal/Ministerio de Ciencia y Tecnología, Spain (bilateral programme *Acciones Integradas* HP2002–0017)

2001	Engineering and Physical Sciences Research Council, UK (3 months fellowship, University of Oxford, UK)
2001–03	Ministerio de Ciencia (Portugal)/Ministerio de Ciencia y Tecnología, Spain (bilateral programme *Acciones Integradas* HP2000–0015)
2001	Ministerio de Ciencia y Tecnología, Spain (PGC2000–2654–E) (Conference grant, New Interfaces between Geometry and Physics)
2001	Fundación Banco Bilbao Vizcaya, Programa Cátedra (6 weeks visit to Madrid of Professor Nigel Hitchin, University of Oxford, UK)
2001–04	Ministerio de Ciencia y Tecnología, Spain (3 year research grant BMF2000–0024)
2000–04	European Commission, European Differential Geometry Endeavour (EDGE) (RTN, EC FP5 contract No. HPRN-CT–2000–00099)
1999–00	Ministerio de Educación y Cultura, Spain (1 year research grant PB98–0112)
1999–01	British Council, UK/Ministerio de Educación y Cultura, Spain (bilateral programme *Acciones Integradas*, HB1998–0006)
1999-00	Ministerio de Educación y Cultura (9 months visit, University of Oxford, UK)
1997	Ministerio de Educación y Cultura, Spain (Conference grant, Equations on Vector Bundles and Moduli Spaces)
1996–99	Ministerio de Educación y Ciencia, Spain (3 year research grant PB95–0185)
1996	Royal Society, UK (3 months fellowship, University of Oxford, UK)
1993–95	European Commission, HCM programme, University of Paris-Sud, Orsay, France (2 year postdoctoral fellowship, ERBCHBICT 920248)
1992–93	Fulbright fellowship (1 year), University of California at Berkeley, USA
1989–91	Ministerio de Educación y Ciencia, Spain (2 year doctoral fellowship, Univ. of Oxford, UK)
1988–89	British Council, UK and Consejo Superior de Investigaciones Científicas, Spain (1 year doctoral fellowship, University of Oxford, UK)
1987	Royal Society-CSIC, UK (3 months fellowship, University of Oxford, UK)
1986–88	Rice University teaching assistantship and fellowship, Houston, USA

LONG TERM VISITING POSITIONS

2025	Feishu, Shanghai, China (1 month)
2025	Sorbonne Université, Paris, France (1 month)
2023	IHES, Bures-sur-Yvette, France (3 months)
2021	IHES, Bures-sur-Yvette, France (3 months)
2021	Max Planck Institute, Bonn, Germany (3 months)
2020	École Normale Supérieure and Sorbonne Université, Paris, France (1 month)
2019	MSRI, Berkeley, USA (1 month)
2019	École Normale Supérieure, Paris, France (1 month)
2018	Universidade do Porto, Porto, Portugal (1 month)
2017	Institut Henri Poincaré, Paris, France (1 month)
2016	Universidade do Porto, Porto, Portugal (1 month)
2016	Bernoulli Centre, EPFL, Lausanne, Switzerland (1 month)
2015	Mathematical Institute, University of Oxford, UK (2 months)
2015	Chennai Mathematical Institute, Chennai, India (1 month)
2014	Mathematical Institute, University of Oxford, UK (2 months)
2013	IMUB, Barcelona, Spain (2 months)
2013	École Normale Supérieure, Paris, France (1 month)
2012	Centre de Reçerca Matemàtica, Barcelona, Spain (4 months)
2012	Institut Henri Poincaré, Paris, France (1 month)

2011	Chennai Mathematical Institute, Chennai, India (1 month)
2011	Newton Institute, Cambridge, UK (6 months)
2010	Université de Paris 6, France (1 month)
2010	Max Planck Institute, Bonn, Germany (6 months)
2008	Université de Paris 6, France (1 month)
2006	Chennai Mathematics Institute, Chennai, India (1 month)
2005	IHES, Bures-sur-Yvette, France (3 months)
2004	Université de Paris-Sud, Orsay, France (1 month)
2003	MSRI, Berkeley, USA (1 month)
2002	ESI, Vienna, Austria (1 month)
2002	MSRI, Berkeley, USA (3 months)
2001	Mathematical Institute, University of Oxford, UK (4 months)
2001	Université de Strasbourg, France (1 month)
2000	University of Illinois at Urbana–Champaign, USA (1 month)
1999–00	Mathematical Institute, University of Oxford, UK (9 months)
1999	University of Illinois at Urbana–Champaign, USA (1 month)
1998–99	École Polytechnique, Palaiseau, France (5 months)
1997–98	École Polytechnique, Palaiseau, France (4 months)
1997	Mathematical Institute, University of Oxford, UK (1 month)
1996	Mathematical Institute, University of Oxford, UK (5 months)
1995–96	Mathematics Department, Università di Florence, Italy (2 months)
1995	Mathematics Department, MIT, Cambridge, USA (2 months)
1995	Matematisk Institut, University of Aarhus, Denmark (1 month)
1995	Institut Henri Poincaré, Centre Emile Borel, Paris, France (1 month)
1994	Park City/Institute for Advance Study Mathematics Institute, Utah, USA (1 month)
1994	MSRI, Berkeley, USA (1 month)
1989	Department of Mathematics, Rice University, Houston, USA (2 months)
1987	Mathematical Institute, University of Oxford, UK (3 months)

INVITED CONFERENCES

2025	Feishu Shanghai Mathematics Symposium 2025, Shanghai (China)
	Workshop on Higgs bundles and harmonic maps, Kiel (Germany)
	IMSA Mathematical Waves 2025, Miami (USA)
2024	IMSA Mathematical Waves 2024, Miami (USA)
	Advances in Higgs Bundles, BRIN Mathematics Research Center, Maryland
	Workshop in higher Teichmüller theory, Chern Mathematics Institute, Tianjin (China)
	Workshop on Hermitian Yang–Mills equations, Geometry and Tacos (online)
	Bridges meeting on special geometries and stability, Cargèse, Corsica (France)
	ICMS-Sofia, IMSAC Days, Sofia (Bulgaria)
	Conference on Geometry at large, Sunny Beach (Bulgaria)
	Algebraic and Analytic Methods in Gauge Theory, York (UK)
2023	Conference in honour of Alastair King, Oxford (UK)
	Simmons Conference on special holonomy, Oxford (UK)
2022	Anual Conference of the Institute for Advanced Study in Mathematics, Hannoi (Vietnam)
	ICMS-Sofia Inaugural Conference Edging Higher, Sofia (Bulgaria)
	Conference on Geometry and Physics, Sunny Beach (Bulgaria)
	VBAC conference in honour of Peter Newstead, Warwick (UK)

2019 Holomorphic differentials in Mathematics and Physics, MSRI, Berkeley, USA
Novel vistas on vortices, SCGP, Stony Brook, USA
Algebraic Analysis and Geometry with a view on Higgs bundles and D-modules, Porto, Portugal
Mathematics of String theory, Hong Kong

2018 Workshop on Geometric Analysis and General Relativity, Hong Kong
Nederlands Mathematisch Congres, Velhoven, The Netherlands
Harmonic maps and Higgs theory - recent developments, Moscow, Russia

2017 Geometry of Manifolds, SCGP, Stony Brook, USA
100e rencontre entre mathématiciens et physiciens théoriciens, Strasbourg, France
Gauge theories, monopoles, moduli spaces and integrable systems (A conference honouring Jacques Hurtubise in his 60th birthday), Montreal, Canada
Geometry and Physics of Augmented Bundles (A celebration of Steve Bradlows 60th birthday), Illinois, USA
Moduli Spaces and Applications in Geometry, Topology, Analysis and Mathematical Physics, Beijing, China

2016 Geometry, Topology and Dynamics of Moduli Spaces, IMS, Singapore
Pacific Rim Conference on Complex and Symplectic Geometry XI, Hefei, China
Retreat on Higgs bundles, real groups, Langlands duality and mirror symmetry, Lausanne, Switzerland

2015 Workshop on algebraic geometry, Manipal, India
School and Conference on 50 years of the Narasimhan–Seshadri Theorem, Chennai, India
The Science of Beauty, Royal Society of Edinburgh, UK

2014 Workshop on gauge sigma models, SCGP, Stony Brook, USA
Workshop on the geometry, topology and physics of moduli spaces of Higgs bundles, Singapore
Workshop on real vector bundles, Brest, France
Workshop on classical and modern algebraic geometry, Bilbao, Spain
Higgs bundle day, CQM Aarhus, Denmark
Workshop on Higgs bundles and pressure metrics, CQM, Aarhus, Denmark

2012 Workshop on Moduli Spaces of Surface Group Representations, IHP, Paris, France
GEAR Retreat, University of Illinois, Urbana-Champaign, USA
Geometry of the vortex equations, Bonn, Germany
Algebraic Geometry Conference in honour of MS Narasimhan, Bangalore, India

2011 Joint meeting of the RTGF and RTE, Barcelona, Spain
Workshop on Vector Bundles, Bogotá, Colombia
Gauge Theory and Complex Geometry, Leeds, UK
The Millenium Problems, Barcelona, Spain

2010 Workshop on Geometry, Topology and Dynamics of Character Varieties, Singapore

2009 Workshop on Differential Geometric Methods in Algebraic Geometry, Mumbai, India
GESTA Conference, Benasque, Spain
IISc-CSIC Mathematics Workshop, Bangalore, India

2008 Workshop on Geometry, Baeza (Jaen), Spain
Conference on Geometric Invariant Theory, Goettingen, Germany

2007 Workshop on Fourier-Mukai-Nahm transforms, Montréal, Canada,
IV Congresso Iberoamericano de Geometria Complexa, Ouro Preto, Brasil
Representations of surface groups, AIM, Palo Alto, USA

2006 Conference on Moduli Spaces Vector Bundles, Guanajuato, Mexico
Workshop on vector bundles and low codimensional subvarieties, Trento, Italy
Mathematics for Peace and Development, Córdoba, Spain
Teichmüller theory and moduli problems, Harish-Chandra Research Institute, Allahabad, India
Coherent systemes and Brill-Noether theory, Liverpool, UK
Representations of surface groups and Higgs bundles, Madrid, Spain
International Mediterranean Congress of Mathematics, Almería, Spain
Discrete Groups and Geometric Structures, with Applications, Ostend, Belgium
Bounded cohomology, harmonic maps and Higgs bundles, Strasbourg (France) and Basel (Switzerland)

2004 Prospects in Geometry, Max Planck Institute, Leipzig, Germany
Meeting of the Spanish Topology Network, Barcelona, Spain

2003 Symplectic and related geometries, EMS meeting, Lisbon, Portugal
Von Neumann Symposium on Complex Geometry, Calibrations and Special Holonomy, MSRI, Berkeley, USA
Workshop on Algebraic Geometry and Physics, Salamanca, Spain
Cuarto Encuentro de Geometría Simpléctica con Técnicas Algebraicas, Madrid, Spain
Algebraic Geometry, Integrable Systems, and Gauge Theory (Special Session AMS Meeting), Courant Institute, New York, USA

2002 Non-abelian Hodge theory and Higgs bundles, MSRI, Berkeley, USA
Conference on Fundamental Groups in Geometry, Oberwolfach, Germany
Workshop on Geometry and Physics, Erwinng Schrödinger International Institute for Mathematical Physics, Vienna, Austria

2001 European Differential Geometry Endeavour workshop , Odense, Denmark
LMS Symposium in Differential Geometry, Durham, UK

2000 Meeting of the RSME (Spanish Royal Mathematical Society), Madrid, Spain
Euroconference on Vector Bundles on Algebraic Curves, Bad Honnef, Germany
International Congress on Differential Geometry in memory of Alfred Gray, Bilbao, Spain

1999 VIIIth Oporto meeting on Geometry, Topology and Physics, Oporto, Portugal
American Mathematical Society Spring meeting, Urbana–Champaign, Illinois, USA

1998 Annual meeting of Europroj, Toledo, Spain

1997 Summer Workshop on Algebraic Geometry and Physics, Medina del Campo, Spain
Algebraic and Differential Geometry meeting in honour of S. Ramanan, Bombay, India
63 Rencontre entre physiciens théoriciens et mathematiciens, Strasbourg, France

1996 First Brazil/USA Workshop on Geometry, Topology and Physics, Campinas, Brazil

1995 IV Autumn Workshop on Differential Geometry and its Applications, Santiago, Spain
Conference on Geometry and Physics, Aarhus, Denmark

1994 Workshop on Applications of Symplectic Geometry, Cambridge, UK
Europroj Conference on Vector Bundles, Lambrecht, Germany
Workshop on Vector Bundles over Algebraic Curves, Liverpool, UK
Conference on Symplectic Geometry of Moduli Spaces, Luminy (Marseille), France

1993 Conference on Algebraic Vector Bundles and Applications, Trento, Italy
Symposium on Vector Bundles in Algebraic Geometry, Durham, UK
Workshop on Algebraic Geometry (2 talks), CIMAT, Guanajuato, México

1992 Workshop on Vector Bundles, Moduli and Differentiable Structures, Göttingen, Germany

ADVANCED COURSES

2024 Course on moment maps equations in complex geometry and gauge theory
IESC, Cargèse, Corsica, France
2023 Course on the geometry of vortex equations on Riemann surfaces
ICTS Bangalore, India
2020 Course on Higgs bundles and higher Teichmüller spaces ICTS Bangalore, India
2019 Course on Higgs bundles and higher Teichmüller spaces, Madrid, Spain
2018 Course on Higgs bundles, Higgs bundles in Mathematics and Physics Summer School, Hamburg, Germany
2016 Course on Higgs bundles, Milan and Pavia, Italy
2015 Course on Higgs bundles, Hanover, Germany
2014 Summer Course "Arte en las Matemáticas. Matemáticas en las artes", El Escorial, Madrid, Spain
2013 ITS Course on Higgs bundles, Porto, Portugal
IMUB Course on Higgs bundles, Barcelona, Spain
2010 Advanced IMPRS minicourse on Higgs Bundles, Bonn, Germany
2007 Course on Higgs bundles, The Chinese University of Hong Kong, Hong Kong
2006 Representations of surface groups and Higgs bundles, Mexico
Mathematics for peace and development: Moduli spaces in geometry and physics, Córdoba
School on Vector Bundles, Guanajuato, Mexico
Espacios de moduli, Madrid
2005 Course on Higgs bundles, Topology of hyperkähler manifolds, Budapest, Hungary
1995 Course on Seiberg-Witten equations, Les Houches Summer School on Quantum Symmetries, France

SEMINARS AND COLLOQUIA

2025 CMI, Chennai (India); Rice University, Houston (USA); Essen (Germany)
2024 IST Austria, Vienna (Austria); UCM (Madrid)
2023 CMI, Chennai (India); IST Austria, Vienna (Austria); College de France, Paris (France); Sorbonne U., Paris (France); ENS, Paris, France
2022 U. Chicago, USA; UI Chicago, USA; Heidelberg, Germany
2021 Sorbonne-Université, Paris (France); IHES, Paris (France); ZAG seminar (online)
Université de Paris, Paris (France)
2020 Chennai, India; Oxford, UK; Paris, France
2019 Chennai, India; Singapore; Roma, Italia; Budapest, Hungary; Stony Brook, USA
2018 Buenos Aires, Argentina
2017 Beijing, China; Zürich, Switzerland
2016 Porto, Portugal (2 talks); Paris, France
2015 Chennai, India; Paris, France; Oxford, UK; Waterloo, Canada; Edinburgh, UK
2014 Oxford, UK; Bath, UK; Lausanne, Switzerland; Hannover, Germany
2013 CIMAT, Guanajuato, Mexico; UCM, Madrid, Spain; Paris 6; Paris, France
2012 Chennai, India; CRM, Barcelona, Spain; Essen, Germany
2011 Oxford, UK
2010 Amsterdam, The Netherlands; Berlin, Germany; Paris, France
2009 Barcelona, Spain; Madrid, Spain; Utah, USA; Illinois, Urbana-Champaign, USA; Maryland, USA
2008 Lisboa, Portugal; Erlangen, Germany
2007 Oxford, UK; Sevilla, Spain; Mainz, Germany; Toronto, Canada;
Shanghai, China

2006 Porto, Portugal; Chennai, India
2005 Mainz, Germany; Aarhus, Denmark; CSIC, Madrid, Spain; Montpellier, France; École Polytechnique, Palaiseau, France; Institut de Mathématiques de Jussieu, Paris, France
2004 Paris-Sud, France; Strasbourg, France; Illinois, Urbana-Champaign, USA (2 talks); Maryland, USA; Rutgers, USA; Brown, USA; Oxford, UK; Bremen, Germany (3 talks)
2003 Pennsylvania, Philadelphia, USA; Maryland, USA
2002 CSIC, Madrid, Spain
2001 Oxford, UK (3 talks); Sheffield, UK; Rice, Houston, USA
2000 Illinois, Urbana-Champaign, USA
1999 Yale, New Haven, USA; Oxford, UK; Liverpool, UK; Edinburgh, UK; Durham, UK
1998 Paris VII, France
1996 École Polytechnique, Palaiseau, France; Oxford, UK; Durham, UK; Bilbao, Spain; Florence, Italy; Rome 3, Italy; Genoa, Italy; Milan, Italy
1995 Illinois, Urbana-Champaign, USA; New York, Stony Brook, USA; Harvard, Cambridge, USA; Institut Henri Poincaré, Paris, France; Santiago, Spain; Salamanca, Spain; Complutense, Madrid, Spain
1994 Paris-Sud, France (2 talks); Basel, Switzerland; Max Planck Institute, Bonn, Germany; Pennsylvania, Philadelphia, USA; Illinois, Urbana-Champaign, USA; California, Davis, USA
1993 Complutense/CSIC, Madrid, Spain; Autónoma, Madrid, Spain; Pavia, Italy
1992 California, Berkeley, USA; Bologna, Italy; Perugia, Italy; IHES, Bures-sur-Yvette, France
1991 Salamanca, Spain; École Polytechnique, Palaiseau, France
1990 Florence, Italy; Oxford, UK
1989 Rice, Houston, USA (2 talks)
1988 Valladolid, Spain; Complutense, Madrid, Spain; Rome "La Sapienza", Italy; Valladolid, Spain

PROFESSIONAL SERVICE

Editorial Boards

- International Journal of Mathematics (World Scientific), 2004–current.
- Extracta Mathematicae (Universidad de Extremadura), 2004–current.
- Geometriae Dedicata (Springer) (2004–2013).
- Illinois Journal of Mathematics (Duke University Press), 2019–current.
- Moduli (Foundation Compositio Mathematica), 2022–current.
- Mathematical Physics, Analysis and Geometry (Springer), 2024–current.

Scientific Advisory Boards

- Centre de Recerca Matemàtica, Barcelona, 2007–2011.
- Institute of Geometry and Physics, University of Science and Technology of China, Hefei, China 2019–current.
- Institute of the Mathematical Sciences of the Americas, Miami, USA, 2022–current.
- Brazilian Centre for Geometry, University of Campinas, Brazil, 2025–current.

Networks and International Research Groups

- Coordinator of the Indo-European Collaboration on Moduli Spaces – MODULI. A Marie Curie IRSES Network funded by the European Commission, 2014–2017.
- Coordinating Committee of the Network Interactions of Low Dimensional Topology and Geometry with Mathematical Physics (ITGP), European Science Foundation, 2009–2012.
- Coordinator of the Spain/Portugal node and Training Secretary of the European Differential Geometry Endeavour Network (EDGE) 2000–2004.
- Member of the Scientific Committee of the Spanish node of the European Algebraic Geometry Research Training Network (EAGER) 2000–2004.
- Member of the Scientific Committee of the international research group Vector Bundles on Algebraic Curves (VBAC), 1995–
- Founder and Coordinator of the Spanish *Red Temática de Geometría y Física* RTGF — a national network in Geometry and Physics `https://www.icmat.es/networks/rtgf/`

Institutional Responsabilities

- Coordinator of the Hitchin–Ngo Laboratory at ICMAT. Funded by the Severo Ochoa Programme for Excellence, 2024–2028.
- Coordinator of the Hitchin–Ngo Laboratory at ICMAT. Funded by the Severo Ochoa Programme for Excellence, 2020–2024.
- Coordinator of the Donaldson–Hitchin Laboratory at ICMAT. Funded by the Severo Ochoa Programme for Excellence, 2016–2019.
- Coordinating Team Area of Physical Sciences, Spanish National Research Council (CSIC), 2016–2018.
- Coordinator of the Nigel Hitchin Laboratory at ICMAT. Funded by the Severo Ochoa Programme for Excellence, 2012–2015.
- Head of the ICMAT Algebraic Geometry and Mathematical Physics Group, Madrid, Spain, 2008–.
- Scientific Advisory Board, Instituto de Ciencias Matemáticas, Madrid, Spain, 2020–.

Organizing/Scientific Committee

1. VBAC workshop on Equations on vector bundles and moduli spaces, Miraflores de la Sierra, Madrid (Spain), 1997
2. VBAC workshop on Principally polarised abelian varieties and vector bundles, Durham (UK), 1998
3. VBAC workshop on Generalised theta functions and moduli spaces, Salamanca (Spain), 1999
4. VBAC workshop on Vector Bundles on Algebraic Curves, Bad Honnef, Germany, 2000

5. Workshop on New interfaces between geometry and physics, Miraflores de la Sierra, Madrid, Spain, 2001
6. VBAC-Euroconference on The geometry of moduli spaces, Rome, Italy, 2001
7. X Encuentro de Geometría y Física, Miraflores de la Sierra, Madrid, Spain, 2001
8. Workshop on Non-abelian Hodge theory and Higgs bundles, MSRI, Berkeley, USA, 2002
9. VBAC-Euroconference on Vertex algebras and algebraic curves, Luminy, France, 2002
10. EDGE mid-term School and Conference, Edinburgh, UK, 2002
11. XI Encuentro de Geometría y Física, Oviedo, Spain, 2002
12. Workshop on Geometry and Physics, ESI, Vienna, Austria, 2002
13. EDGE mid-term review meeting, Pisa, Italy, 2003
14. Moduli spaces in Geometry and Physics, Special Session of the first joint meeting RSME-AMS, Sevilla, Spain, 2003
15. VBAC-Euroconference Vector Bundles on Algebraic Curves, Porto, Portugal, 2003.
16. Geometry and Physics, CIRM, Luminy, France, 2003
17. First meeting of the RTGF (Red Temática de Geometría y Física), Miraflores de la Sierra, Madrid, Spain, 2003.
18. EDGE Conference on Variational Problems on Surfaces, Granada, Spain, 2004.
19. VBAC School and Workshop on Gromov-Witten Invariants, Trieste, Italy, 2004.
20. Special Session in Algebraic Geometry, first joint meeting RSME-SCM-SEMA, Valencia, Spain, 2005.
21. Einstein's Legacy in Geometry, CSIC, Madrid. Special event, Physics World Year 2005.
22. Higgs bundle spring day, CSIC, Madrid, 2005.
23. Workshop on Higgs bundles and representations of surface groups, CSIC, Madrid, 2005.
24. Mathematics for Peace and Development, School in Geometry and Physics, Córdoba, Spain (satellite ICM2006).
25. Geometry Conference in Honour of Nigel Hitchin, CSIC, Madrid (satellite ICM2006).
26. VBAC Conference in Honour of Peter Newstead, Guanajuato, Mexico, December 2006.
27. Geometry, topology and dynamics of surface group representations, American Institute of Mathematics, Palo Alto, USA, March 2007.
28. Semester on Moduli Spaces, Madrid, Barcelona, Bilbao, Salamanca, January-June 2008.

29. International School on Geometry and Physics, CIEM, Castro Urdiales, Cantabria, February 2008.

30. Conference on Vector Bundles in Honour of S. Ramaman, Miraflores de la Sierra, Madrid, June 2008.

31. Workshop on Representations of Surface Groups, Luminy, France, September 2008.

32. VBAC Workshop on Derived Categories and the Langlands Programme, Berlin, Germany, June 2009.

33. Second International School on Geometry and Physics: Geometric Langlands and Gauge Theory, Barcelona, Spain, March 2010.

34. VBAC Workshop on New Invariants and Stability Conditions, Lisbon, Portugal, June 2010.

35. Semester on Moduli Spaces, Newton Institute for Mathematical Sciences, Cambridge, January–July 2011.

36. School on Moduli Spaces, Newton Institute for Mathematical Sciences, Cambridge, January 2011.

37. Higgs bundles and surface group representations, Oxford, UK, March 2011.

38. VBAC Workshop on Moduli Spaces, Newton Institute for Mathematical Sciences, Cambridge, June 2011.

39. Master Class and Workshop on Representations of Surface Groups, Centre de Reçerca Matemàtica, Barcelona, May 2012.

40. Indo-Spanish Conference in Geometry and Analysis, ICMAT, Madrid, September 2012.

41. Workshop-retreat on Topology of moduli spaces of representations, Miraflores de la Sierra, Madrid, 11-15 March 2013.

42. VBAC Workshop, SISSA, Trieste, 17–21 June 2013.

43. Term on Moduli spaces in geometry and physics, ICMAT, Madrid, April–July 2014.

44. Workshop on moduli spaces in geometry and physics, Miraflores de la Sierra (Madrid), 16–20 June 2014.

45. VBAC Workshop, Berlin, September 2014.

46. Workshop on new trends in generalised geometry, ICMAT, Madrid, November 2014.

47. VBAC Workshop on Moduli spaces, Warwick, June 2015.

48. Workshop Indo-European project MODULI, ICMAT, Madrid, June 2015.

49. GEOQUANT School and Conference on Geometry and Quantization, ICMAT, Madrid, September 2015.

50. School and Conference 50 years of the Narasimhan–Seshadri Theorem, Chennai Mathematical Institute, October 2015.

51. Higgs bundles and the Hitchin system, Bernoulli Centre, École Polytéchnique Fédérale de Lausanne, Switzerland, January 2016.

52. Hitchin70, Three conferences in honour of Nigel Hitchin for his 70th birthday, Aarhus, Oxford and Madrid, September 2016.

53. Indo-European Workshop MODULI, Madrid, September 2016.

54. VBAC Conference, Essen, Germany, September 2017

55. Moduli Spaces, conference in honour of S. Ramanan for his 80th birthday, ICMAT, Madrid, December 2017.

56. Conference on Geometry and Physics of Moduli Spaces, Indian Science Academy, New Delhi, India, December 2017.

57. VBAC Wokshop on Gauge theory and complex geometry, Luminy, France, June 2018

58. Workshop on Groups actions in algebraic and symplectic geometry, ICMAT, Madrid, October 2018.

59. School and workshop on New trends in Higgs bundle theory, ICMAT, Madrid, November 2018.

60. School and workshop on Special metrics and gauge theory, ICMAT, Madrid, December 2018.

61. VBAC Wokshop on GIT, wall-crossing and moduli spaces, Aarhus, Denmark, June 2019

62. Donaldson–Hitchin Lab Summer workshop, ICMAT, Madrid, Spain, July 2019

63. Hitchin–Ngô Lab Young researchers workshop, ICMAT, Madrid, Spain, April 2022

64. Special trimester of the Hitchin–Ngô Lab (3 workshops), ICMAT, Madrid, Spain, April–June 2023

65. Symposium on Geometry, celebrating Eugenio Calabi's 100th birthday, Hefei, China, 3-7 July 2023.

66. Joint conference ICMAT–IMSA, Geometry at Large, ICMAT, Madrid, 21-25 April 2025.

67. Symposium on Geometry at Large, Hefei, China, 7–18 July 2025

68. Hitchin–Ngô Lab geometry workshop, Shanghai, China, 7–10 August 2025

69. VBAC conference 2025, Curves, Surfaces and Moduli, Mérida, Mexico, 19–24 January 2026

70. ICTS programme on Geometric structures and stability, ICTS, Bangalore (India), 16–27 February 2026.

Outreach activities

- Where does geometry go? A research and education perspective, Bilbao, Spain, 2000. Round table. Panelists: J.P. Bourguignon, E. Calabi, J. Eells, O. García-Prada, and M. Gromov.
- New Opportunities for Mathematics in the 21st Century, Madrid, 2004. Round table. Panelists: M.F. Atiyah, A. Bermúdez de Castro, J.L. Fernández Pérez, O. García-Prada and M. de León.
- New Interactions between Geometry and Physics, Madrid, 2006. Round table. Moderator: O. García-Prada. Panelists: M.F. Atiyah, J.P. Bourguignon, P. Candelas, N.J. Hitchin, J.F. Labastida, M.S. Narasimhan.
- Mathematics and Music: An exploration, Madrid, 2013. Round table. Moderator: O. García-Prada. Panelists: D. Azagra, P. Bayer, D. Ghani, D. Wright.
- Mathematics and Music, Madrid, 2014. Round table. Moderator: Ágata Timón. Panelists: D. Azagra, O. García-Prada, Fabricio Macià.
- Indo-European Collaboration in Mathematics, Madrid 2017. Round table. Moderator: O. García-Prada. Panelists: A. Córdoba, N. Hitchin, M.S. Narasimhan, S. Ramanan.
- Round table on Nigel Hitchin mathematics, IMSA, Miami, 2023.
- Popular talks on the mathematics of kolam and ethnomathematics: Universidade do Porto 2018; University of Oxford 2018; École Normale Superieure (Paris) 2019; ICTS (Bangalore) 2021 (on line); IHES (Paris) 2023; UNED Madrid 2024; Universidade de Santiago de Compostela 2024; UNED Zamora 2025; Université de Genève 2025.
- The power and beauty of Mathematics, talk to High School students, Shanghai, 23 July 2025.

PHD RESEARCH STUDENTS

1. Ignasi Mundet i Riera, Yang–Mills–Higgs theory for symplectic fibrations, Ph.D. Thesis, Universidad Autónoma de Madrid, 1999.
2. Luis Álvarez Cónsul, Hitchin–Kobayashi correspondence and dimensional reduction, Ph.D. Thesis, Universidad Autónoma de Madrid, 2000.
3. Marina Logares Jímenez, Parabolic $U(p,q)$-Higgs bundles, Ph.D. Thesis, Universidad Autónoma de Madrid, 2006 (joint with Vicente Muñoz).
4. Marta Aparicio Arroyo, Geometry of $SO(p,q)$-Higgs bundles, Ph.D. Thesis, Universidad de Salamanca, 2009.
5. Mario García Fernández, Coupled equations for Yang–Mills connections and Kähler metrics, Ph.D. Thesis, Universidad Autónoma de Madrid, 2009 (joint with Luis Álvarez-Cónsul).
6. Álvaro Antón Sancho, Higgs bundles and triality, Ph.D. Thesis, Universidad Complutense de Madrid, 2009.
7. Roberto Rubio Nuñez, Higgs bundles and Hermitian symmetric spaces, Ph.D. Thesis Universidad Autónoma de Madrid, 2012.
8. Emilio Franco Gómez, Higgs bundles on elliptic curves, Ph.D. Thesis, Universidad Autónoma de Madrid, 2012.
9. Ana Peón Nieto, Higgs bundles, real forms and the Hitchin fibration, Ph.D. Thesis Universidad Autónoma de Madrid 2013 (joint with Luis Álvarez-Cónsul).
10. Luis Angel Calvo Pascual, Augmented bundles and real structures, Ph.D. Thesis, Universidad Autónoma de Madrid, 2018.
11. Manuel Jesús Pérez García, Automorphisms of Higgs bundle moduli spaces for real groups, Ph.D. Thesis, Universidad Autónoma de Madrid, 2018.
12. Guillermo Barajas Ayuso, Fixed points in Higgs bundle moduli spaces and the Prym–Narasimhan–Ramanan construction, Universidad Autónoma de Madrid, 2023
13. Guillermo Gallego Sánchez, Multiplicative Higgs bundles, monopoles and involutions, Universidad Complutense de Madrid, 2023

CURRENT PHD RESEARCH STUDENTS

- Miguel González González, Universidad Complutense de Madrid (started 2023)
- Diego Ruiz Cases, Universidad Complutense de Madrid (started 2023)
- Manuel Timiraos López, Universidad Complutense de Madrid (started 2024)

OTHER SUPERVISED RESEARCH STUDENTS

- Sara García Herrero, U Complutense Madrid, Spain, July–September 2007
- Francisco Torres de Lizaur, Ecole Normale Supérieure, Paris, France, March–July 2013.
- Felipe Castellano Maciás, Northeastern University, USA, July–September 2017
- Naveen Kumar, CMI, Chennai, India, November–December 2017.
- Miguel Ángel Moya Berlanga, Universidad Complutense de Madrid, 2018–19.
- Guillermo Mera, U. Valencia, July–September 2022
- Marta Sálamo, U. Santiago de Compostela, July–September 2022
- Jesús Aguado, U Autónoma de Madrid, 2021–23.

SUPERVISED POSTDOCTORAL RESEARCHERS

1. Yann Rollin, École Polytechnique, Palaiseau, France (1 March – 30 June 2001).
2. Fabio Pioli, SISSA, Trieste, Italy (1 November 2002 – 31 May 2004).
3. Alexander Schmitt, University of Essen, Germany (1 May – 31 July 2003, March 2004).
4. Frank Nasser, University of Aarhus, Denmark (1 March – 31 May 2004).
5. Giovanna Scattaglini, University of Oxford, UK (15 March – 15 April 2004).
6. Daniel Fox, Georgia Tech., USA (2006 – 2009)
7. Mario García Fernández (2014–2015)
8. Rohith Varma, CMI, Chennai, India (3 months in 2015 and 2016)
9. Suratno Vasu, CMI, Chennai, India (6 months in 2016 and 2019)
10. Varun Thakre, TIFR, Bangalore, India (1 month in 2017)
11. Artur de Araujo, Porto, U. Porto, Portugal (2017–2019)
12. Mathieu Ballandras, Université de Paris, France (2021-2023)

LONG TERM SENIOR VISITORS

1. Nigel Hitchin, University of Oxford, UK (6 weeks in 2001, 1 month in 2013, 1 month in 2014, 1 month in 2015, 1 month in 2016, 1 month in 2017, 1 month in 2018, many visits in 2021, 2022, 2023 and 2024).
2. Peter Newstead, University of Liverpool, UK (1 month in 2000, 3 months in 2003, 2 months in 2008).
3. Christian Pauly, Université de Nice, France (7 months in 2008, 2 years: 2010-2012).
4. M.S. Narasimhan, Indian Institute of Science, Bangalore, India
5. S. Ramanan, Tata Institute, Mumbai, India (1 month in 1996, 1 month in 2001, 1 month in 2003, 4 months in 2004, 1 month in 2006, 2 months in 2008, 1 month in 2010, 2 months 2012, 1 month in 2014, 1 month in 2017).
6. Richard Thomas, Imperial College, London, UK (1 month in 2003).

LEARNED SOCIETIES

European Mathematical Society
London Mathematical Society
Real Sociedad Matemática Española

LANGUAGES

Spanish (native), English (fluent), French (fluent), Italian (fluent), Portuguese (elementary) and German (B level)

July 2025