Report on the state of mathematics in Argentina (2003-2013)

This is an overview of the present status in Mathematics in Argentina, prepared for the presentation to the IMU for promotion to Group III by the adhering organization, Unión Matemática Argentina (**http://www.union-matematica.org.ar**), the largest scientific society gathering together the profesional mathematicians in Argentina.

Modern history of mathematics in Argentina starts in 1917 with the arrival of Julio Rey Pastor from Spain. He managed to create the necessary conditions for mathematical research. The pioneering work of Luis Santaló, Alberto González Domínguez, Mischa Cotlar, Antonio Monteiro, Orlando Villamayor, Eduardo Zarantonello, Beppo Levi and Jose Babini among others, settled the foundation for the development of mathematics in the country. Many Argentinean mathematicians excelled in their careers abroad, it is enough to mention Calderón and Caffarelli as prominent examples.

In 1958, the creation of CONICET (acronym for National Council for Scientific and Technological Research, **http://www.conicet.gob.ar**) gave important support to scientific research in Argentina. In many areas of science and Engineering, CONICET used to give fellowships for PhD studies abroad. In mathematics instead, the Argentinean young students started to choose local universities to pursue PhD studies and then went abroad as postdocs. This tendency, albeit with ups and downs, remains today.

In 2003 the economical situation started to become more stable. In 2007 the Federal Government created the Ministry of Science, Technology and Productive Innovation (**http://www.mincyt.gob.ar**), and in particular, science started having a better social image and receiving much more consideration from governments and consequently increasing budgets.

Mathematical research covers a wide variety of areas -including real and harmonic analysis, functional analysis, PDEs, algebra, differential geometry, statistics, probability, number theory, logic, numerical analysis, mathematical physics, optimization, combinatorics- and results in numerous publications, many of which are of excellent quality. The number of undergraduate students in mathematics remains unchanged in some universities and increases in others.

According to http://www.scimagojr.com, Argentina is in the 37th position in the ranking of research articles in mathematics published in 1996-2012, with 5747 citable articles and 43174 citations for a population of 40,6 millions. However the quality of the journals in which these articles are published is getting better -as the list below shows- and the number of PhD thesis is increasing. This last fact owes a lot to the constant high number of grants to complete PhDs supported by CONICET during the last ten years. Also PhD students and postdocs from other countries gradually started to consider our Universities for their careers.

Below we summarize some information that supports, in our opinion, the well-foundedness of the promotion of Argentina to Group III of the IMU. We list a sample of high quality articles and also a more detailed list of publications as recorded by MathScinet written by Argentinean mathematicians supported by CONICET from 2003 to 2013. We also include the number of PhD students, Argentinean mathematicians that acted as Editors of either Journals, invitations to some of the most important mathematical congresses, prizes, meetings and colloquia held in the country. In all cases, the information is about the period 2003 to 2013 and concerns only mathematicians that developed their career in Argentina.

Select research articles (ordered by Institute of CONICET: CIEM, IAM, IMAL, IMAS, IMASL, INMABB)

CIEM

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9. Adrián Andrada and Isabel G. Dotti. Double products and hypersymplectic structures on R^{4n}. Comm. Math. Phys., 262(1):1–16, 2006.
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23. Roelof Wichert Bruggeman, Fritz Grunewald, and Roberto Jorge Miatello. New lattice point asymptotics for products of upper half-planes. Int. Math. Res. Not. IMRN, (7):1510–1559, 2011.
24. Alain Bruguières and Sonia Natale. Exact sequences of tensor categories. Int. Math. Res. Not. IMRN, (24):5644–5705, 2011.
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27. Jorge Lauret and Cynthia Will. Einstein solvmanifolds: existence and non-existence questions. Math. Ann., 350(1):199–225, 2011.
28. Teodor Banica, Julien Bichon, and Sonia Natale. Finite quantum groups and quantum permutation groups. Adv. Math., 229(6):3320– 3338, 2012.

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PhD Thesis

Bahía Blanca UNS (Universidad Nacional del Sur)	Buenos Aires UBA (Universidad Nacional de Buenos Aires)	Córdoba UNC (Universidad Nacional de Córdoba)	La Plata UNLP (Universidad Nacional de La Plata)	Mar del Plata UNMdP (Universidad Nacional de Mar del Plata)	Rosario UNR (Universidad Nacional de Rosario)	San Luis UNSL (Universidad Nacional de San Luis)	Santa Fe UNL (Universidad Nacional del Litoral)
25	**73**	**42**	**23**	**2**	**13**	**18**	**17**

Total: **213**

Selected Editorship Journals

- *Abstract and Applied Analysis:* Pablo Amster, Julián Fernández Bonder, Julio Rossi, Noemí Wolanski
- *ALEA, Revista Latinoamericana de Probabilidade e Estatística:* Pablo Ferrari
- *Annali dell'Universitá di Ferrara:* Nicolás Andruskiewitsch
- *Annals of Probability* (2003-2006): Pablo Ferrari
- *Boundary Value Problems*: Julio Rossi
- *Brazilian Journal of Probability and Statistics (Brazil)*: Pablo Ferrari
- *Communications in Mathematical Analysis*: Alejandra Maestripieri
- Editor in Chief of *Sampling Theory in Signal and Image Processing (STSIP)*: Carlos Cabrelli
- *Electronic Journal of Probability* (1996-2006): Pablo Ferrari
- *European Series in Applied and Industrial Mathematics. Probability and Statistics*: Pablo Ferrari
- *Homology, Homotopy and applications* (1999-2004): Andrea Solotar
- *International Journal of Differential Equation*: Julio Rossi
- *International Journal of Mathematical Models and Methods in Applied Sciences, NAUN*, New York, USA: Noemí Wolanski
- *Journal Conference Papers in Mathematics*: Julián Fernández Bonder
- *Journal Foundation of Computational Mathematics:* Teresa Krick
- *Journal of Algebra*: Nicolás Andruskiewitsch
- *Journal of Geometric Mechanics*: Hernán Cendra
- *Journal of Homotopy and Related Structures*: Guillermo Cortiñas
- *Journal of K-theory*: Guillermo Cortiñas
- *Journal of Mathematical Analysis and its Applications*: Ricardo Durán, Gustavo Corach
- *Journal of Statistical Physics* (1993-96, 2010-2013): Pablo Ferrari
- *Journal of Statistical Planning and Inference* (2001-2008): Víctor Yohai
- *Journal of Symbolic Computation*: Alicia Dickenstein
- *Mathematical Physics Electronic Journal*: Pablo Ferrari
- *Mathematics of Computation*: Ricardo Durán
- *Nonlinear Analysis: Theory, Methods & Applications:* Julio Rossi
- *Probability Theory and Related Fields* (2008-2011): Pablo Ferrari
- *Publicaciones Matemáticas de Uruguay* (2004-2009): Nicolás Andruskiewitsch
- *Real Analysis Exchange*: Ursula Molter
- *REBRAPE, Brazilian Journal of Probability and Statistics*: Víctor Yohai
- *Revista Colombiana de Matemáticas*: Nicolás Andruskiewitsch
- *Revista de la Unión Matemática Argentina*: Jorge Lauret, Gabriel Acosta Rodríguez, Liliana Forzani, María Julia Redondo, Ignacio Viglizzo, Manuel Abad, Carlos Cabrelli, Hernán Cendra, Roberto Cignoli, Gustavo Corach, Guillermo Cortiñas, Alicia Dickenstein, Isabel Dotti, Ricardo Durán, Pablo Ferrari, Eleonor Harboure, Roberto Macías, Roberto Miatello, Gabriel Minian, Carlos Olmos, María Inés Platzeck, Guido Raggio, Jorge Eduardo Solomín, Domingo Tarzia, Juan Tirao, Jorge Vargas, Víctor Yohai, Felipe Zó.
- *Revista de Matemáticas Aplicadas* (Chile): Pablo Ferrari
- *TEST Journal of the Spanish Statistical Society*: Víctor Yohai

Conferences in international congresses

ICM
Ricardo Durán, 2006
Nicolás Andruskiewitsch, 2014
Guillermo Cortiñas, 2014

MCA
Alicia Dickenstein, 2013
Roberto Miatello, 2013
Miguel Walsh, 2013

CLAM
Juan A. Tirao, 2004
Eleonor Harboure, 2009
Noemí Wolanski, 2009
Guillermo Cortiñas, 2012

Prizes

Pablo Ferrari, Guggenheim Fellowship 1999
Jorge Lauret, Guggenheim Fellowship 2001
Graciela Lina Boente Boente Guggenheim Fellowship 2001
Juan Pablo Rossetti, Guggenheim Fellowship 2002
Ursula Molter, Guggenheim Fellowship 2003
Ursula Molter, Guggenheim Fellowship 2003
Jorge Lauret, Srinivasa Ramanujan Prize, 2007
Jorge Lauret, Mención Honrosa de UMALCA, 2009
Miguel Walsh, MCA Prize 2013
Miguel Walsh, Clay Research Fellowship 2014

Conferences organized in Argentina

2013
- IV MACI 2013: IV Congreso de Matemática Aplicada, Computacional e Industrial del 15 al 17 de mayo de 2013. Buenos Aires
- Cimpa 2013: New Trends in Applied Harmonic Analysis Sparse Representations, Compressed Sensing and Multifractal Analysis. 5 al 16 de agosto. Mar del Plata
- CIMPA-UNESCO-MESR-MINECO: Modern Methods in Combinatorics. July 22-August 2. San Luis
- Distance and measure in analysis and partial differential equations: Un encuentro dedicado a Hugo Aimar en sus sesenta años. 13 y 14 de junio, Santa Fe
- Semester in Computability, Complexity and Randomness, enero-junio, Buenos Aires
- Quantum 2013: Coloquio de Álgebras y Representaciones, 22 al 25 de marzo, Tafí del Valle-Tucumán
- XII Congreso Dr. Antonio Monteiro (Análisis), 22 al 24 de mayo, Bahía Blanca
- Hochschild cohomology: structure and applications, 12 al 16 de agosto, Buenos Aires
- II Escuela sobre Análisis Funcional y Geometría, 18 al 22 noviembre, Buenos Aires
- V Simposio en Estadística Espacial y Modelamiento de Imágenes, 11 al 13 de diciembre, Córdoba
- UMA 2013:Reunión Anual de la Unión Matemática Argentina, 17 al 20 de septiembre, Rosario

2012
- IV Congreso Latinoamericano de Matemáticos, 6 al 10 de agosto. Buenos Aires

- VI Encuentro Nacional de Álgebra, 2 al 4 de agosto. La Falda, Córdoba
- II Taller de Matemática Industrial, 30 de julio al 4 de agosto. Buenos Aires
- 5º Escuela de Invierno Luis A. Santaló: Matemática Aplicada, 23 al 27 de julio. Buenos Aires
- CI3 - Conferencias Internacionales de Investigación Interdisciplinaria, 9 al 13 de abril - Buenos Aires (Learning Theory and Immunology)
- XI Encuentro Nacional de Analistas A. P. Calderón 8 al 10 de Noviembre, Mar del Plata
- XXII Encuentro Rioplatense de Álgebra y Geometría 3 al 6 de diciembre, 2012. Buenos Aires
- Jornadas de Análisis, Ecuaciones en Derivadas Parciales y Matemática Aplicada, junio, Buenos Aires
- I Escuela Puntana de Combinatoria, 4 al 6 julio, San Luis
- EMALCA 2012. Escuela de Matemática de América Latina y el Caribe, 15 al 27 de octubre, Puerto Madryn
- UMA 2012: Reunión Anual de la Unión Matemática Argentina, 6 al 8 de agosto, Córdoba
- IV CLAM: Congreso Latinoamericano de Matemáticos, 6 al 10 de agosto, Córdoba
- CIMPA-UNESCO-MESR-MICINN School: Stochastic dynamics of particles and Networks. November 19-30. Mar del Plata

2011
- 8th Regional Meeting on Probability and Mathematical Statistics, 30 de noviembre al 2 de diciembre. Buenos Aires
- Workshop on Algebraic Topology and Combinatorics, 7 al 11 de noviembre. Buenos Aires
- Escuela Latinoamericana de Geometría Algebraica y Aplicaciones - CIMPA Research School, 1 al 12 de agosto. Buenos Aires y Córdoba
- Conference on Real Analysis and PDEs - Fabes Lectures 2011, 30 de mayo al 1 de junio. Buenos Aires
- III MACI Congreso de Matemática Aplicada. Computacional e Industrial, 9 al 11 de mayo, Bahía Blanca
- XI Congreso Dr. Antonio Monteiro (Geometría), del 26 al 27 de mayo, Bahía Blanca
- CIMPA-UNESCO-MESR-MICINN Research school "Escuela latinoamericana de matemáticas" ELAM of UMALCA: Non-commutative Algebra and Lie Theory. May 16-27. Córdoba
- II Iberoamerican Meeting on Geometry, Mechanics and Control, in honor of Hernán Cendra, 10-14 de enero. Bariloche
- Fabes Lectures 2011: Conference on Real Analysis and PDE's, 30 y 31 de mayo, Buenos Aires
- Primer EMALCA Argentina, del 7 al 19 de marzo, Salta
- I Escuela sobre Análisis Funcional y Geometría, noviembre, Buenos Aires
- UMA 2011:Reunión Anual de la Unión Matemática Argentina, 20 al 23 de septiembre, Tucumán

2010
- X Encuentro Nacional de Analistas A. P. Calderón, 25 al 28 de agosto. La Falda, Córdoba
- CIMPA-UNESCO-MICINN School: Dynamic Optimization. August 30-September 10. Tandil
- V Encuentro Nacional de Álgebra, 9 al 14 de agosto. La Falda, Córdoba
- Topics in Noncommutative Geometry: 3era Escuela de Invierno Luis Santaló-CIMPA Research School, 26 de julio al 6 de agosto. Buenos Aires
- Segunda Escuela de Historia Conceptual de la Matemática, 23 al 27 de noviembre. Córdoba
- Encuentro Sudamericano de Representaciones de Algebras y temas afines, marzo, Mar del Plata
- UMA 2010:Reunión Anual de la Unión Matemática Argentina, septiembre, Tandil
- VII Regional Meeting on Probability and Mathematical Statistics, 1 al 3 de diciembre, Santa Fe

2009
- Harmonic Analysis, Sparse Approximations and Applications, en honor del profesor Carlos Cabrelli en ocasión de cumplir 60 años, 27 y 28 de noviembre. Buenos Aires
- Segunda Escuela de Invierno Luis A. Santaló, dedicada a la Teoría de Probabilidades - Buenos Aires
- IV International Symposium On Nonlinear PDEs and Free Boundary Problems, 17 al 20 de marzo. Mar del Plata

- Colloquium on Hopf algebras , Quantum groups and Tensor Categories. 31 de agosto al 4 de septiembre. La Falda
- VII Workshop in Lie Theory and its Applications. Córdoba
- X Congreso Dr. Antonio Monteiro (Probabilidad y Estadística), del 27 al 29 de mayo, Bahía Blanca
- UMA 2009:Reunión Anual de la Unión Matemática Argentina, 23 al 26 de septiembre, Mar del Plata

2008
- Algebraic Topology Conference in Buenos Aires. 10 al 14 de noviembre
- Tercer Encuentro Internacional de EDPs (Ecuaciones en Derivadas Parciales) No Lineales- Primera escuela de invierno Luis A. Santaló, 28 de julio al 1ro. de agosto - Buenos Aires
- International School and Conference on Algebraic Geometry, D-modules and Foliations, 21 al 26 de julio. Buenos Aires
- Residuated Structures: Algebra and Logic,16 al 19 de abril de 2008
- Real Analysis and its Applications- CIMPA Research School and Noveno Encuentro Nacional de Analistas A. P. Calderón, 26 de mayo al 6 de junio - La Falda
- XVIII Encuentro Rioplatense de Álgebra y Geometría Algebraica, 10 al 14 marzo - Buenos Aires
- UMA 2008:Reunión Anual de la Unión Matemática Argentina, septiembre, Mendoza
- Meeting of Harmonic Analysis in honor of Eleonor Pola Harboure, 11y 12 de diciembre, Santa Fe
- IX Jornadas Latinoamericana de Teoría Económica, San Luis revisar

2007
- Sixth Workshop on Lie Theory and Geometry -Cruz Chica
- IX Congreso Dr. Antonio Monteiro (Lógica), del 30 de mayo al 1 de junio, Bahía Blanca
- UMA 2007:Reunión Anual de la Unión Matemática Argentina, 19 al 22 de septiembre, Córdoba

2006
- International Conference Harmonic Analysis and Applications and VIII Encuentro Nacional de Analistas "A.P. Calderón", 31 de julio al 4 de agosto, Villa de Merlo
- CIMPA-UNESCO School: Homological methods and representations of non-commutative algebras. March 6-17. Mar del Plata
- UMA 2006:Reunión Anual de la Unión Matemática Argentina, septiembre, Bahía Blanca
- Escuela de Matemática sobre Métodos Geométricos y Analíticos para Ecuaciones en Derivadas Parciales, 11 al 15 de diciembre, Buenos Aires

2005
- VIII Congreso Dr. Antonio Monteiro (Álgebra), del 26 al 28 de mayo, Bahía Blanca
- II Encuentro Internacional de EDPs no lineales, 25 al 29 de julio, Buenos Aires
- BASCOLA (Satélite Coloquio Latinoamericano de Algebra), agosto, Buenos Aires
- UMA 2005:Reunión Anual de la Unión Matemática Argentina, septiembre, Salta
- Recent developments in Real and Harmonic Analysis, an International Conference in honor of Carlos Segovia, 12 al 16 de diciembre, Buenos Aires
- III Congreso Internacional de Matemática Aplicada a la Ingeniería y Enseñanza de la Matemática en Ingeniería, octubre, Buenos Aires

2004
- II Encuentro de Algebra, 9 al 14 de agosto, Vaquerías-Córdoba
- VII Encuentro Nacional de Analistas "Dr. Alberto Calderón" y I Encuentro Hispano Argentino de Análisis, 31 de agosto al 3 de septiembre, Villa de Merlo
- UMA 2004:Reunión Anual de la Unión Matemática Argentina, septiembre, Neuquén
- I Encuentro Anual del Instituto Argentino de Matemática, diciembre, Buenos Aires

2003

- X Encuentro Rioplatense de Algebristas, mayo, Buenos Aires
- CIMPA-UNESCO School: Systems of polynomial equations: from algebraic geometry to industrial applications. July 14-25. Buenos Aires
- VII Congreso Dr. Antonio Monteiro (Análisis), del 13 al 15 de agosto, Bahía Blanca
- UMA 2003:Reunión Anual de la Unión Matemática Argentina, septiembre, Río Cuarto
- Encuentro de Matemática en Conmemoración del 30 aniversario de la creación del IAM, septiembre de 2003
- II Congreso Internacional de Matemática Aplicada a la Ingeniería y Enseñanza de la Matemática en Ingeniería, diciembre de 2003, Buenos Aires

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