

Biographical Sketch - June 2023

ALICIA DICKENSTEIN

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Appointments and Awards:

2023	Merit Diploma in Mathematics, Konex Foundation, Argentina.
2023	Jack Carr Lecturer, ICMS, Edinburgh, UK.
2021	L'Oréal-UNESCO International Award "For Women in Science".
2022	Doctor Honoris Causa, Universidad Nacional del Sur, Argentina.
2021–2025	Member of the Council of SIAM.
2021	Distinguished Personality, University of Buenos Aires.
2020–2024	Member of the Governing Board, National Academy of Exact, Physical and Natural Sciences, Argentina.
2020	Doctor Honoris Causa, Royal Institute of Technology (KTH), Sweden.
2020–	SIAM Fellow, Class of 2020
2020–	Member, National Academy of Sciences, Argentina.
2019–	Fellow of the American Mathematical Society, Class of 2019.
2019–	Doctor Honoris Causa, Universidad Nacional del Sur, Argentina, 2019.
2018–	Member, National Academy of Exact, Physical and Natural Sciences, Argentina.
2015-2018	Vice-President, International Mathematical Union.
2015-2021	Simons Senior Research Associate, ICTP, Italy.
2017	Carrier Award, Academy of Exact and Natural Sciences, Argentina.
2015	TWAS (The World Academy of Sciences) Prize 2015 in Mathematics.
2019	Cattedra Fubini, Politecnico di Torino, Italy.
2017	Kurt and Alice Wallenberg Visiting Professor, KTH, Sweden.
2016-2019	Member of the Council of the AMS.
2016	Chair Alicia Moreau, Université Paris-Diderot, France.
2018–2022	Member of the International Advisory Committee - ICM 2022.
2019–2020	Member of the Comité scientifique de l'année Math2020, France.
2017–2021	Member of the International Program Committee, International Congress of Mathematics Education ICME-14, China.
2000–	Member of the Advisory Board of MEGA (Effective Methods in Alg. Geometry, since 2000). Member of CIMPA (Centre International de Math. Pures et Appl.), France (since 2006). Member of the Advisory Committees of the European Marie Curie ITN SAGA (2008-2011) and ARCADES (2016-2020). Scientific Leader, Institut Mittag-Leffler, Sweden (2011). VQR 2004-2010 (assessment of Italian research), ANVUR, Italy (2012). Co-chair SIAM Conference on Applied Algebraic Geometry AG 13, USA (2013). Member of the International Advisory Board, ICWM 2014, Korea (2014). Coorganizer Special Trimester on Algebraic Geometry, IMPA, Brazil (2015). Member of the External Evaluation Committee, CIMAT, Mexico (2014-2017 and 2019-2021). Member of the Scientific Committee of the Simons Foundation Africa Mathematics Project (2012, 2016). Reviewer for NSERC Institutes, Canada (2021-2022). Reviewer for the Swedish Research Council Institutes (2021). Review of Research Institutes, The Arctic University of Norway (2021). Member of the Jury of the J.L. Rubio de Francia Prize, Spain

- (2021-2023), Evaluation of Research Teams, INRIA, France (2022). Member of the Jury of the Steele Prizes, American Mathematical Society (2022-2023).
- 1991-2013 Visiting Professor Positions: U.Poitiers, France (1991 and 2001) - U. Paris 6, France (1992) - U. Paris 7, France (1993) - U. Bordeaux I, France (1994) - City U., Hong Kong, China (1999) - U. Sao Paulo, Brazil (2004), award from Fundacao do Milênio - U. Stockholm, Sweden (2000 and 2002), awards from National Research Council and Wenner Gren Foundation, Sweden - KTH, Sweden (2011) - U. Athens, Greece (2012) - U. Oslo, Norway (2012), U. Paris Diderot (2016), Politecnico di Torino (2019). Research visits: SAMSI, USA (2008-09) - IMA, USA (2006-2007) - MSRI, USA (Research Professor (1998), Eisenbud Professor (2009), and Simons Professor, (2012)) - Santander Abbey IAS Visiting Fellowship, U. Warwick, UK (2010), U. Utrecht, Netherlands (2013).
- 2011 Inclusion of the note “A hidden praise of Mathematics”, Bull. Amer. Math. Soc. 46 (2009), 125–129, in: *The Best Writing on Mathematics 2010*, ed. M. Pitici, Princeton University Press, 2011, 99–105.
- 2002 ISSAC 2002 Distinguished Paper Award, joint with I. Emiris, for the paper: “Multihomogeneous Resultant Matrices”, ACM Press, 2002, 46–54.

National positions:

- 2022– Emerita Professor, University of Buenos Aires.
- 2001-2022 Full Professor, UBA, Argentina.
- 2014– First Class Researcher, National Council of Scientific and Technical Research, Argentina.
- 2004– First Category, National System of Researchers, Argentina.
- 2014 Coordinator National Report on Mathematics 1984-2014, National Academies of Sciences and Ministry of Science and Productive Innovation, Argentina.
- 2013 Coordinator Fellowships in Mathematics, CONICET.
- 2010-2014 Graduate Program Director, Math. Dept., FCEN, UBA.
- 2002-2003 Vice-chairman of the Mathematics Committee, CONICET.
- 1999-03;2007-11 Member of the Basic Sciences Committee, UBA.
- 1998-2002 Member of the Directive Council, FCEN, UBA.
- 1996-1998 Head of the Mathematics Department, FCEN, UBA.
- 1991-2001 Associate Professor, UBA, Argentina.
- 1985-1990 Assistant Professor, UBA, Argentina.
- 1982-1984 Postdoctoral Fellow, CONICET, Argentina.
- 1982 Ph.D. in Mathematics, UBA, Argentina.

Member of Editorial Boards: *SIAM Journal on Applied Algebra and Geometry*, Corresponding Editor, 2016–2021; *Mathematics of Computation*, Associate Editor since 2019; *Revista de la Unión Matemática Argentina*, Editor 2011–2017, Editor-in-Chief since 2018; *La Matematica*, Official Journal of the AWM, Associate Editor since 2021; *Algebraic Combinatorics*, Editor since 2018; *Vietnam Journal of Mathematics*, Editor since 2016; *Royal Society Open Science*, Editor 2014-June 2015; *Journal of Symbolic Computation*, Editor, 2003–2018.

Collaborators since 2007: F. Bihan (France), M. Bourel (Uruguay), N. Botbol (Argentina), E. Cattani (USA), C. Conradi (Germany), G. Craciun (USA), M.A. Cueto (USA), R. Curran (USA), D. Cox (USA), T. Dasgupta (USA), S. di Rocco (Sweden), M. Dohm (Germany), I. Emiris (Greece), E. M.

Feichtner (Germany), E. Feliu (Denmark), V. Fisikopoulos (Greece), J. Forsgård (USA), M. Giaroli (Argentina), J. Gunawardena (USA), I. Herrero (Argentina), A. Karasoulou (Greece), R. Karp (USA), E. Kunz (Germany), F. N. Martínez (Argentina), L. Matusevich (USA), E. Miller (USA), M. Pérez Millán (Argentina), R. Morrison (USA), B. Mourrain (France), S. Müller (Austria), B. Nill (Germany), G. Regensburger (Austria), R. Piene (Norway), R. Rischter (Brazil), A. Rittatore (Uruguay), F. Rodríguez Villegas (Italy), J. M. Rojas (USA), K. Rusek (USA), T. Sadykov (Russia), H. Schenck (USA), J. Shih (USA), A. Shiu (USA), B. Sturmfels (USA), L. Tabera (Spain), E. Tobis (Argentina), X. Tang (USA), M. Vergne (France).

Postdocs Supervised N. Botbol, J. García Galofre, J. Gargiulo, I. Herrero, A. Molinuevo, M. Pérez Millán. **Ph.D. Students Supervised:** Carlos A. D’Andrea, Enrique A. Tobis, Nicolás Botbol, Federico Martínez, Mercedes Pérez Millán, Magalí Giaroli. **Master’s Students Supervised:** J. Fernández, C. D’Andrea, S. Licanic, M. Blaum, A. Augspach, H. Anadon, E. Tobis, S. Adducci, M. Mereb, R. Cicala, M. A. Cueto, M. Giaroli, J. M. Mareso, N. Botbol, M. Pérez Millán, C. Czubara, Ana Legaspi, Anamilla Busca (Argentina) and M. Bourel (Uruguay).

Selected invited talks since 2010: ICIAM Plenary Speaker, Japan (2023), Geometry in Convexity and Computations, Germany (2022), CCAAGS’22, USA (2022), SIAM SAGA Seminar (2021). Latin American Congress of Mathematicians, Plenary lecture, Uruguay (2021). CASC 2021, Plenary lecture, Russia (2021). MEGA 2021, Plenary lecture, Norway (2021). JMZS XXXIII, Chile (2021). NASO Seminar, MPI-MiS Leipzig, Germany (2021). John Conway Spirited Seminar, LUMS, Pakistan (2021). Colloquium, U. Texas at S. Antonio (2021). Colloquium, U. South Carolina, USA (2021). Cibercoloquio Latinoamericano de Matemática (2020). Séminaire de Géométrie, U. Savoie Mont-Blanc, France (2020). Boston’s Joint Mathematics Colloquium, USA (2020). Pure Maths Seminar, U. Leicester, UK (2020). ICTP Associates Seminar, Italy (2020). 8th Iberoamerican Congress on Geometry, Plenary lecture, Morelia, Mexico (2020, postponed). ECCO 2020, Plenary lecture, Bogotá, Colombia (2020, postponed). ISSAC 2020, Plenary talk, Kalamata, Greece (2020). Colloquium, CIMAT, Mexico (2020). Brazilian Colloquium of Mathematics, Opening lecture, Brazil (2019). SIAM AG 2019, Plenary talk, Bern, Switzerland (2019). Trieste Algebraic Geometry Summer School (TAGSS) 2019, Minicourse, Italy (2019). Biennial Meeting Spanish Royal Society of Mathematics, Plenary talk, Santander, Spain (2019). Symbolic Tools in Mathematics and their Application, TRR 195 Annual Meeting, Plenary talk, Tuebingen, Germany (2018). World Meeting of Women Mathematicians, Plenary talk, Rio de Janeiro, Brazil (2018). Algebraic Representations in Computer-Aided Design for complex Shapes (Arcades) Doctoral School II, Minicourse, Barcelona, Spain (2018). IML Workshop on Combinatorics, Polytopes and Complexity, Sweden (2018). Workshop on Singularities, Toric Geometry and Differential Equations, Plenary talk, Chemnitz, Germany (2018). Colloquium, Stockholm Mathematics Centre, Sweden (2017). Oberwolfach Workshop on Reaction Networks and Population Dynamics (2017). Colloquium, U. Savoie Mont Blanc, Le Bourget-du-Lac, France. Giornata INdAM 2016, Plenary talk, Perugia, Italy (2016). RIMS Seminar, Kyoto, Japan (2016). Oberwolfach Workshop on Toric Geometry, Germany (2016). Workshop on Dynamics in Networks with Special Properties, Plenary talk, MBI, USA (2016). Frontiers Lectures, Texas A & M University, College Station USA (2015). Opening and Closing Lectures Unión Matemática Argentina, Plenary talks (2017, 2015, 2011, 2001). CIMPA School “Géométrie Algébrique réelle”, Minicourse, AIMS, Senegal (2014). Colloquium, U. Copenhagen, Denmark (2014). First Mathematical Congress of the Americas (MCA), Invited talk, Mexico (2013). Colloquium, Utrecht U., The Netherlands (2013). Colloquium, Year on Commutative Algebra, MSRI, USA (2012). FPSAC 22, Plenary talk, San Francisco State U., USA (2010). Colloquium, U. Warwick, UK (2010). COW Seminar, UK (2010).

Selected Conferences Co-organized: General Chair, ICMS 2024, Durham, UK, 2024. General Chair, ISSAC 2023, Tromsø, Noruega, 2023. Online Seminar Series: LAGARTOS, GEOTOP-A, and ZAG (since 2020). CIRM Conference “Real Algebraic Geometry”, France (2022). BIRS CMO Workshop 21w5117 (2021). ICME14, Shanghai, China (2020). Minisimposium SIAM AG 2019, Switzerland (2019). Workshop on Nonlinear algebra in applications, ICERM, USA (2018). Latin American Interdisciplinary CELFI School “A systems approach to biology”, Argentina (2018). ELGA (Latin American School on Algebraic Geometry) (2019, Chile) (2017, Mexico), (2013, Brazil), (2011, Argentina). Tropical Geometry in the Tropics, IMPA, Brazil (2015). SIAM Conference on Applied Algebraic Geometry AG 13, USA, (2013). Math problems arising from biochemical reaction networks, AIM, USA (2013). Workshop on Combinatorial Comm. Algebra and Appl., MSRI, USA (2012). Semester on Algebraic Geometry with a View Towards Applications, I. Mittag Leffler, Sweden (2011). MEGA (Eff. Methods in Algebraic Geometry) (2013, Germany), (2011, Sweden), (2009, Spain), (2007, Austria), (2005, Italy), (2003, Germany). Conn. for Women: Tropical Geometry, MSRI, USA (2009). MAP Summer School, ICTP, Italy (2008). Mini-Workshop on Surface Modeling and Syzygies, MFO, Germany (2007). Latin American Workshop on Polynomial System Solving (2003, Argentina), (2005, Brazil).

Publications: 88 Scientific papers. 3 scientific books and 5 volumes (coedited). 4 math books for children; one of these books (Matemax) has been published in a bilingual English+Spanish edition by the American Mathematical Society in 2020.