

CURRICULUM VITAE

FERNANDO CUKIERMAN

NAME: Fernando M. Cukierman

BIRTH: Buenos Aires, 1953.

ADDRESS:

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STUDIES AND DIPLOMAS

- Bachiller, Colegio Nacional de Buenos Aires, UBA, 1972.
- Ingeniería Electrónica, Facultad de Ingeniería, UBA, 1972-1975.
- Licenciado en Matemática, FCEN-UBA, 4/July/1979.
- Master of Science (Mathematics), University of Chicago, 10/June/1983.
- Ph. D. (Mathematics), Brown University, 25/May/1987.

POSITIONS

- Undergraduate teaching assistant, UBA (Facultad de Ingeniería), 1976-1977.
- Undergraduate teaching assistant, UBA-FCEN, 1977-1979.
- Teaching assistant, UBA-FCEN, 1979-1982.
- Fellow of CONICET, 1979-1982.
- University Fellow, University of Chicago, 1982-1983.
- Teaching Assistant, Brown University, 1983-1987.
- Hedrick Assistant Professor, University of California (Los Angeles), 1987-1990.
- Assistant Professor, University of Kansas, 1990-1994.
- Researcher, Max-Planck Institute (Bonn), 8/1993-8/1994.
- Researcher of CONICET, Independiente, 6/1996-present.
- Associate Professor, UBA-FCEN, Mathematics Department, 9/1994-12/2001.
- Professor (Profesor Regular Titular, Dedicación Exclusiva), UBA-FCEN, Mathematics Department, 13/3/2002-14/12/2011.
- Investigador Categoría I, Programa de Incentivos MINCYT.
- Senior Associate Researcher, Abdus Salam International Centre for Theoretical Physics - ICTP (Trieste, Italy), 05/2010-12/2013.
- Professor (Profesor Regular Titular Plenario, Dedicación Exclusiva), UBA-FCEN, Mathematics Department, 14/12/2011-present.

PUBLICATIONS

- (1) Tesis de Licenciatura: "Ecuaciones diferenciales con puntos singulares regulares", directed by Prof. Miguel Herrera.
- (2) Ph. D. Thesis: "Families of Weierstrass points", directed by Prof. Joe Harris.
- (3) "Stability of unique Fourier transform phase reconstruction", con J. Sanz y T. Huang, *J. Optical Soc. Am.*, Vol. 73, 1442-1445 (1983).
- (4) "Families of Weierstrass points", *Duke Mathematical Journal*, Vol. 58, 317-346 (1989).
- (5) "On higher Weierstrass points", with L. Fong, *Duke Mathematical Journal*, Vol. 62, 179-203 (1991).
- (6) "Curves of genus ten on K3 surfaces", with D. Ulmer, *Compositio Mathematicae*, Vol. 89, 81-90 (1994).
- (7) "Multiplicities of discriminants", with P. Aluffi, *Manuscripta Mathematicae*, Vol. 78, 245-258 (1993).
- (8) "Parameterizing and fitting bounded algebraic curves and surfaces", with G. Taubin, S. Sullivan, J. Ponce and D. Kriegman. IBM Research Report.
 "Parameterizing and Fitting Bounded Algebraic Curves and Surfaces", with G. Taubin, S. Sullivan, J. Ponce and D. Kriegman. *Proceedings cvpr*, 1992.
 "Parameterized Families of Polynomials for Bounded Algebraic Curve And Surface Fitting", with G. Taubin, S. Sullivan, J. Ponce and D. Kriegman. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 1993.
- (9) "Rigidity of isotropic maps", *Pacific Journal of Mathematics*, Vol. 174-1, 29-43, 1996.
- (10) "Study of vector bundles by restriction", with S. Mandal, *Communications in Algebra*, Vol. 23(8), 2971-2974 (1995).
- (11) "Determinant of complexes and higher Hessians", *Mathematische Annalen* 307, 225-251 (1997). Also, Max-Planck-Institute Preprint Series, 1994.
- (12) "Monodromy of projections", *Matemática Contemporanea*, vol. 16, pag. 9-31, 1999.
- (13) "A Note on Resultants", *Bol. Academia Nac. Ciencias, Córdoba*, vol. 65, pag. 99-103, 2000.
- (14) "Cuádricas y Cúbicas", *Monografías del IMCA*, Vol. 15, 78 pags. Lima, Perú (2001).
- (15) "Positive polynomials and hyperdeterminants", *Collectanea Mathematica* Vol. 58, pags. 279-289, 3 (2007).
<http://arxiv.org/abs/math.AG/0312469>
<http://www.imub.ub.es/collect/2007.html>
- (16) "Introducción al cálculo de Schubert".
<http://mate.dm.uba.ar/~fcukier>
- (17) "Singularities of logarithmic foliations", with M. Soares y I. Vainsencher, *Compositio Mathematica*, Vol. 142 (2006), pp 131-142
- (18) "Las razones del descubrimiento del año". *Diario Perfil*, 24/12/2006.
http://www.diarioperfil.com.ar/edimp/0156/cie_005.html

- (19) "A note on the j -invariant and foliations", with Omegar Calvo. Actas del XVI Coloquio Latinoamericano de Algebra, Colonia. Biblioteca de la Revista Iberoamericana de Matemática (2007), pags. 99-109.
<http://front.math.ucdavis.edu/math.AG/0611595>
- (20) "Stability of holomorphic foliations with split tangent sheaf", with J. V. Pereira. American Journal of Mathematics, pags. 413-439, vol. 130, number 2, April 2008.
<http://front.math.ucdavis.edu/math.CV/0511060>
- (21) "Reconstructing a 3D Line from a Single Catadioptric Image", with D. Lanman, G. Taubin y M. Wachs. IEEE Computer Society. Third International Symposium on 3D Data Processing, Visualization, and Transmission (3DPVT'06), pp. 89-96
<http://doi.ieeecomputersociety.org/10.1109/3DPVT.2006.115>
- (22) "Notas sobre integrales abelianas". Publisher: Sociedad Matemática Peruana and IMCA. ISBN: 978-9972-242-18-2
- (23) "Stability of foliations induced by rational maps", with J. V. Pereira and I. Vainsencher. Annales de la Faculte des Sciences de Toulouse, Ser. 6, 18 no. 4 (2009), p. 685-715.
<http://front.math.ucdavis.edu/0709.4072>
- (24) "Varieties of complexes and foliations". Algebraic Methods in Geometry, volume for Xavier Gomez-Mont's 60th birthday. Journal of Singularities, Vol. 9 (2014), pp. 56-67.
<http://arxiv.org/abs/1111.5514>
<http://www.journalofsing.org/volume9/index.html>
- (25) "Enumeration of Surfaces Containing an Elliptic Quartic Curve", with Angelo Lopez and Israel Vainsencher. Proceedings of the American Mathematical Society, Vol. 142, No. 10, pp. 3305-3313, October 2014.
<http://arxiv.org/abs/1209.3335>
- (26) "Grothendieck's Theory of Affine Schemes and the Mathematical Problem of Representation", with Gabriel Catren. Preprint 2017. Submitted.
- (27) "Stability of logarithmic differential one-forms", with Javier Gargiulo and Cesar Massri. Arxiv preprint 2017. Transactions of the AMS, to appear.

TEACHING

- Teaching assistant, Engineering School (UBA), 1976: Matemática Superior para Ingenieros.
- Teaching assistant, School of Pharmacy and Biochemistry (UBA), summer 1978 and 79.
- Teaching assistant, FCEN (UBA):
 - 1977: Análisis I, Algebra I.
 - 1978: Geometría I, Algebra II.
 - 1979: Geometría I, Geometría I.
 - 1980: Complementos de Algebra y Topología, Geometría Algebraica.
 - 1981: Complementos de Algebra y Topología, Algebra II.
- Admission course, FCEN (UBA), summer 1981.
- Teaching assistant in Brown University (1983-1987), several Calculus courses.
- Teaching assistant in a course on algebraic curves taught by Professor Joe Harris (Brown, 1987).
- Quarter courses at UCLA:
 - 1987: Discrete Math, Calculus I, Discrete Math, Calculus II.
 - 1988: Advanced calculus, Differential equations I and II, Calculus I.
 - 1989: Complex variable, Calculus I, Calculus II, Abstract Algebra.
- Semester courses at the University of Kansas:
 - 1990: Calculus I, Discrete Mathematics, Calculus II, Graduate Algebra II.
 - 1991: Calculus II, Linear Algebra, Calculus II, Differential Geometry.
 - 1992: Calculus I, Vector Calculus.
- Summer courses at the University of Buenos Aires, School of Mathematics, as Visiting Professor:
 - 1989: Algebraic Surfaces.
 - 1991: Introduction to Algebraic Geometry.
 - 1992: Complex Semisimple Lie Algebras.
 - 1993: Toric Varieties.
- FAMAFA, University of Córdoba:
 - Algebraic Geometry I, 7/96-12/96.
 - Algebraic Geometry II, 7/97-12/97.
- Courses for secondary teachers (Ministry of Education):
 - Differential Geometry, Buenos Aires, 1997.
 - Differential Geometry, Santiago del Estero, 1997.
- Annual meeting of the Argentine Mathematical Society, La Plata, Sept. 1999: Algebraic curves and Riemann surfaces.
- IMCA (Instituto de Matemática y Ciencias Afines), Lima, Perú, July 2000: Introduction to Algebraic Geometry.
- Primer Encuentro Nacional de Algebra, Vaquerías, Córdoba, August 2003: Introduction to the Schubert calculus.
- Unión Matemática Argentina annual meeting, La Plata, September 1999: Curvas Algebraicas y Superficies de Riemann.
- IMCA (Instituto de Matemática y Ciencias Afines), Lima, Perú, July 2000: Introduction to Algebraic Geometry.
- Primer Encuentro Nacional de Algebra (Vaquerías, Córdoba), August 2003: Introduction to Schubert Calculus.
- Didactical experiences (FCEN-UBA), expositions for secondary students, 2004.

- EMALCA School (IMCA, Lima, Perú), February 2008: Introduction to Algebraic Geometry.
- Segundo Encuentro Nacional de Matemática y su Enseñanza, Universidad Tecnológica de Pereira, Colombia, 8 - 12 September 2008: Course on Topology of Algebraic Varieties.
- Short course on "Jordan Canonical Form", Universidad Nacional de Misiones, Posadas, 22-24 March 2010.
- CIMPA School (IMCA, Lima, Perú), 19 to 23 July 2010: Introduction to Deformation Theory.
- Pontificia Universidad Católica del Perú, 1 to 30 September 2013: Introduction to Exterior Differential Systems.
- Courses at the University of Buenos Aires, School of Mathematics, as Regular Professor:
 - 1/1995: Algebra II.
 - 2/1995: Grupos y Algebras de Lie.
 - 1/1996: Geometría Proyectiva.
 - 2/1996: Introducción a la Geometría Algebraica.
 - 1/1997: Geometría Proyectiva.
 - 2/1997: Geometría Algebraica II.
 - 1/1998: Geometría Proyectiva.
 - 2/1998: Introducción a la Geometría Algebraica.
 - 1/1999: Grupos y Algebras de Lie.
 - 2/1999: Algebra I.
 - 1/2000: Cálculo Avanzado.
 - 2/2000: Topología.
 - 1/2001: Grupos y Algebras de Lie.
 - 2/2001: Geometría Diferencial.
 - 1/2002: Geometría Proyectiva.
 - 2/2002: Introducción a la Geometría Algebraica.
 - 1/2003: Grupos y Algebras de Lie.
 - 2/2003: Geometría Diferencial.
 - 1/2004: Geometría Proyectiva.
 - 2/2004: Geometría Algebraica.
 - 1/2005: Algebra II.
 - 2/2005: Topología.
 - 1/2006: Algebra I.
 - 2/2006: Geometría Algebraica.
 - 1/2007: Grupos y Algebras de Lie.
 - 2/2007: Geometría Proyectiva.
 - 1/2008: Análisis Complejo.
 - 2/2008: Geometría Algebraica.
 - 1/2009: Geometría Diferencial.
 - 2/2009: Geometría Proyectiva.
 - 1/2010: Introducción a la Teoría de Intersecciones.
 - 2/2010: Geometría Algebraica.
 - 1/2011: Geometría Diferencial.
 - 2/2011: Geometría Proyectiva.
 - 1/2012: Introducción a la Teoría de Foliaciones.

2/2012: Geometría Algebraica.
1/2013: Algebra I.
2/2013: Geometría Proyectiva.
1/2014: Geometría Diferencial.
2/2014: Geometría Algebraica.
1/2015: Grupos y Algebras de Lie.
2/2015: Teoría de Números.
1/2016: Análisis I.
2/2016: Geometría Algebraica.
1/2017: Geometría Diferencial.
2/2017: Geometría Proyectiva.
1/2018: Temas de Álgebra y Geometría.

DIRECTION OF STUDENTS

Licenciatura Thesis

- Gonzalo Comas, "Anillos de Cohen-Macaulay", 9/1997.
- Eliezer Niborski, Stage (ENS, Lyon): "Teorema Riemann-Roch", 7/1998.
- Ariel Pacetti, "Grupos algebraicos Lineales", 6/1999.
- Malena Seiguer, "Trabajos de Zak", 12/1999.
- Leandro Vendramin, "Sobre el problema de Waring", 12/2004.
- Federico Quallbrunn, "Conjeturas de Weil y teoría elemental de motivos", 3/2007.
- Cesar Massri, "Introducción a la teoría de deformaciones", 3/2007.
- Ariel Molinuevo, "Anillo de Chow de variedades tóricas", 3/2008.
- Joe Palacios Baldeón, "Correspondencia de Serre entre haces coherentes y módulos graduados de tipo casi finito". Universidad Nacional Mayor de San Marcos, Lima, Perú, 3/2009.
- Gabriel Muñoz. Universidad Nacional Mayor de San Marcos, Lima, Perú, 3/2009.
- Joaquín Rodríguez, "Geometría algebraica y geometría analítica", Universidad Nacional de La Plata, 20/3/2012.
- Javier Gargiulo, "Introducción a la teoría geométrica de invariantes", 21/3/2012.
- Manuel Dubinsky, "diffAlg: un software de Algebra Diferencial", 1/12/2012. Department of Computation, FCEN-UBA. Codirector: Cesar Massri.
- Martina Negrín, "Singularidades de funciones diferenciables", 4/3/2013.
- Bruno Robbio, "Teoría de D-módulos", 18/4/2016.
- Germán Stefanich, "Métodos cohomológicos en ecuaciones diferenciales", 10/5/2016.
- Manuel Puebla, "Teorema de Cartan-Kahler", 6/7/2016.
- Ignacio Darago, "Sobre la conjetura de la p-curvatura de Grothendieck-Katz", 27/12/2016.
- Sebastián Velazquez, "El anillo de coordenadas homogéneas de una variedad tórica", 15/3/2017.
- Mariano Chehebar, "Teoría de Singularidades", 27/3/2018.
- Pablo Perrella, in progress.

Doctoral Thesis

- Gonzalo Comas, "Rango asociado a una curva proyectiva", 12/7/2007.
- Cesar Massri, "Geometría de variedades de Maurer-Cartan", 12/16/2011.
- Federico Quallbrunn, "Familias playas de foliaciones algebraicas", 15/3/2013.
- Ariel Molinuevo, "Unfoldings y deformaciones de foliaciones racionales y logarítmicas", 5/6/2013.
- Javier Gargiulo, "Componentes logarítmicas de espacios de foliaciones proyectivas", 10/3/2017.
- Manuel Dubinsky, in progress. Co-directed with Gabriel Taubin (Brown University, RI, USA).
- Sebastián Velazquez, in progress.
- Mariano Chehebar, in progress.

Director of Fellowships

- Gonzalo Comas, UBA Doctoral Fellowship, 1998-2002.
- Ariel Pacetti, Postdoctoral Fellow CONICET, 2004-2006.

- Osvaldo Santillán, Junior Researcher CONICET, 11/2007-3/2014.
- Ariel Pacetti, Junior Researcher CONICET, 2006-2009.
- Cesar Massri, Doctoral Fellow CONICET, 4/2007-4/2011.
- Federico Quallbrunn, Doctoral Fellow CONICET, 4/2008-3/2013.
- Ariel Molinuevo, Doctoral Fellow CONICET, 4/2008-3/2013.
- Gonzalo Comas, Postdoctoral Fellow CONICET, 4/2009-4/2011.
- Matías del Hoyo, Postdoctoral Fellow CONICET, 4/2010-7/2011.
- Cesar Massri, Postdoctoral Fellow CONICET, 4/2012-present.
- Joaquín Rodrigues, Doctoral Fellow CONICET, 4/2012-9/2012.
- Javier Gargiulo, Doctoral Fellow CONICET, 4/2012-4/2017.
- Sebastián Velazquez, Doctoral Fellow CONICET, 4/2017-present.
- Mariano Chehebar, Doctoral Fellow CONICET, 4/2018-present.

TEACHING MATERIAL

Available at <http://mate.dm.uba.ar/~fcukier/Teaching.htm>

Cuádricas y Cúbicas (Monografías del IMCA, Vol. 15, Lima, Perú, 2001).

Introducción al Cálculo de Schubert (Eлена I, Vaquerías, Córdoba, 2003).

Notas sobre Integrales Abelianas (EMALCA, IMCA, Lima, Perú, 2008).

Nota sobre la Forma de Jordan.

Geometría del Espacio de Matrices, exercises Geometría Algebraica 2002, 2008.

Nota sobre Algebras de Semigrupo (Algebra II 1995).

Ejercicios sobre Revestimientos (Topología 2005).

Análisis Complejo 2008. Notes taken by Victoria Venuti.

Geometría Algebraica 2008. Notes taken by Isabel Herrero.

Notas muy informales sobre Geometría Diferencial.

TALKS IN CONGRESSES AND SEMINARS

- (1) 1979, Joint meeting of the Unión Matemática Argentina (UMA) and the Sociedad Matemática Paraguaya, Asunción: "Algebraic curves".
- (2) August 1980, Meeting of the UMA, Salta: "Algebraic curves".
- (3) August 1980, Fifth National Seminar in Mathematics, Vaquerías, Cordoba: "A note on algebraic curves".
- (4) 1984-1987, Algebraic Geometry Seminar, Brown University. Several talks.
- (5) 1986, Seminar on Algebraic Surfaces, Brown University. Several talks.
- (6) April 1985, Graduate Students Colloquium, Brown University: "Galois groups of enumerative problems".
- (7) March 1986, Graduate Students Colloquium, Brown University: "Abelian integrals".
- (8) July 1987, Buenos Aires: "Teorema de Enriques-Babbage-Petri".
- (9) August 1988, Algebraic Geometry Seminar, UCLA: "Divisors on the moduli space of curves".
- (10) 1988, Seminar on Hodge Theory, UCLA: Organizer, with J. Tilouine. Several talks.
- (11) August 1989, Buenos Aires: "Moduli of Riemann Surfaces".
- (12) August 1989, Buenos Aires, Mathematical Wines: "Abelian integrals".
- (13) March 1989, Algebraic Geometry Seminar, UCLA: "Higher Weierstrass points".
- (14) January 1990, Meeting of the American Mathematical Society, Louisville, Kentucky: "Higher Weierstrass points".
- (15) February 1990, Algebraic Geometry Seminar, UCLA: "Monodromy of projections".
- (16) March 1990, University of Kansas: "Higher Weierstrass points".
- (17) May 1990, University of California, Irvine: "Geometry of the moduli space of curves".
- (18) 1990, Geometry Seminar, University of Kansas: several talks on "Theta Functions and the Krichever construction".
- (19) 1990, Seminar on Vector Bundles on Complex Projective Spaces, University of Kansas: Organizer, with Satya Mandal. Several talks.
- (20) 1991, Algebra Seminar, University of Kansas: "Hiperdeterminants".
- (21) January 1991, Denton, Texas: "Curves of genus 10 on K3 surfaces".
- (22) June 1991, Buenos Aires, Mathematical Wines: "Riemann surfaces".
- (23) July 1991, Rio de Janeiro, IMPA: "Curves of genus 10 on K3 surfaces".
- (24) July 1991, University of Pernambuco, Recife: "Geometry of the moduli space of curves".
- (25) August 1992, Buenos Aires, Mathematical Wine: "Dual varieties and Determinants".
- (26) April 1993, Virginia Tech: "Gaussian maps on algebraic curves".
- (27) April 1993, University of Arizona at Tucson: "Generalized Hessians".
- (28) December 1993, Universidad Complutense de Madrid: "Gaussian maps on algebraic curves".
- (29) December 1993, Universidad Autónoma de Madrid: "Determinant of complexes and covariants".
- (30) March 1994, University of Amsterdam: "Determinant of complexes and covariants".

- (31) July 1994, Max-Planck-Institute (Seminar Harder-Hirzebruch-Zagier): "Determinant of complexes and higher Hessians".
- (32) November 1995, Universidad de Córdoba: "Enumerative Geometry".
- (33) August 1996, Universidad Complutense de Madrid: "Zariski conjecture on Hurwitz schemes".
- (34) August 1996, Universidad Autónoma de Madrid: "Geometry of varieties of complexes".
- (35) September 1996, Annual Meeting, Argentine Mathematical Society, Salta: "Determinant of complexes and Hessians".
- (36) January 1997, IMPA, Algebra Seminar: "Determinant of complexes and Hessians".
- (37) January 1997, IMPA, Complex Dynamics Seminar: "Noether-Lefschetz theorem".
- (38) May 1997, Algebra Seminar, FCEyN (UBA): "Galois groups and monodromy groups".
- (39) July 1997, IMPA, ALGA Conference: "Multiplicities of Resultants".
- (40) September 1997, Annual Meeting, Argentine Mathematical Society, Córdoba, Invited lecture: "Geometry of moduli spaces".
- (41) May 1998, Instituto Argentino de Matemática: "Determinantal Varieties".
- (42) July 1998, Escola de Algebra (Canela, Brasil), "Geometry of Resultant Varieties".
- (43) September 1998, Conference Homology y Representation Theory (Vaquerías, Cordoba), "Geometry of Resultant Varieties".
- (44) February 1999, "Foliations in projective space", Universita di Roma III.
- (45) February 1999, "Geometry of Resultant Varieties", Universita di Roma III.
- (46) June 1999, XII Escuela Latinoamericana de Matemática (IMCA, Lima, Peru), "Degree of Resultant Varieties".
- (47) June 2000, 6to. Encuentro de Algebra y Geometría Algebraica, Montevideo: "Limit linear series on algebraic curves".
- (48) July 2000, Invited Conference, 18th. Meeting of the Peruvian Mathematical Society, Univ. Nac. Mayor de San Marcos, Lima, Perú: "Geometry of hyperdeterminants".
- (49) February 2001, Algebra Seminar, IMPA: "Geometry of Resultant Varieties".
- (50) October 2001, "Geometry of the variety of complexes", Coloquio Internacional de Homología y Representaciones de Algebras, Sierra de la Ventana, Argentina.
- (51) July 2003, "A criterion for positive polynomials", I Latin American Workshop on Polynomial Systems, Buenos Aires.
- (52) August 2003, "Introduction to the Schubert calculus", course at Primer Encuentro Nacional de Algebra, Vaquerías, Córdoba.
- (53) September 2003, "A criterion for positive polynomials", Conference celebrating the 30th anniversary of the CIEM (FAMAF, Univ. Córdoba).
- (54) February 2004, Complex Dynamics Seminar, Universite de Rennes, France: "A criterion for positive polynomials".
- (55) February 2005, "On positive polynomials", Algebra Seminar, IMPA.
- (56) March 2005, "On the geometry of moduli spaces of foliations", II School and Workshop on Polynomial Equations, Angra dos Reis, Brasil.

- (57) August 2005, "Infinitesimal deformations of foliations". VII Meeting on Commutative Algebra and Algebraic Geometry (ALGA), 31/7/05-4/8/05, Paraty, Brasil.
- (58) August 2005, "Infinitesimal deformations of foliations", XVI Coloquio Latinoamericano de Algebra, 1/8/05-9/8/05, Colonia del Sacramento, Uruguay.
- (59) July 2006, "Some new irreducible components of the moduli space of foliations". VIII Meeting on Commutative Algebra and Algebraic Geometry (ALGA), IMPA, Rio de Janeiro, Brasil.
- (60) August 2006, Córdoba (Vaquerías), eENAI: "Espacios de moduli de foliaciones en variedades algebraicas".
- (61) December 2006, Lima (Perú), International Conference on Mathematics, IMCA 2006: "Algunas componentes irreducibles de espacios de foliaciones".
- (62) August 2007, Edmonton (Canadá), PIMS Algebra Summer School: "Irreducible components of moduli spaces of foliations".
- (63) February 2008: "Espacios de moduli en geometría algebraica", Coloquio de la Facultad de Ciencias Matemáticas, Universidad Nacional Mayor de San Marcos, Lima, Perú.
- (64) September 2008: Course on the "Topology of Algebraic Varieties", Segundo Encuentro Nacional de Matemática y su Enseñanza, Universidad Tecnológica de Pereira, Colombia, 8- 12 September.
- (65) 2/July/2009, "Geometry of moduli spaces of foliations in projective spaces", Seminario de Geometría, Politecnico di Milano (Italia).
- (66) 8/July/2009, "Geometry of moduli spaces of foliations in projective spaces II", Seminario de Geometría Algebraica, Universita di Pavia (Italia).
- (67) 16/July/2009, "Some new irreducible components of moduli spaces of foliations", Seminario de Geometría, Universita di Roma III (Italia).
- (68) 2/September/2009, "Limit Foliations", Algebraic Geometry Session, III CLAM (Congreso Latino Americano de Matemáticos), 31/Aug - 4/Sept 2009, Santiago, Chile.
http://3clam.umalca.org/?page_id=77
- (69) 19 to 23 July 2010, "Introduction to Deformation Theory", course at CIMPA School (IMCA, Lima, Perú).
- (70) 14/April/2011, "Varieties of Complexes and Foliations", International Symposium of Dynamical Systems, 90th Anniversary of Mauricio Peixoto. IMPA, Rio de Janeiro.
http://www.impa.br/opencms/pt/eventos/store_old/evento_1102?link=2
- (71) 25/August/2011, "Varieties of Complexes and Foliations", Algebraic Methods in Geometry: Commutative and Homological Algebra in Foliations and Singularities. School and Conference in honour of Xavier Gomez-Mont on the occasion of his 60th birthday. CIMAT, Guanajuato, México: August 22 to September 2 of 2011.
<http://www.matem.unam.mx/gomezmont/>
- (72) 9/May/2012, "Varieties of complexes and foliations", Workshop "A Midspring Math Meeting", Politecnico di Torino (Italia).
http://calvino.polito.it/~geosem/MMM2012/workshop2012_1.htm
- (73) 22/May/2012, "Irreducible components of varieties of foliations in affine space", Seminario di Geometría, Universita di Roma III (Italia).

- (74) 24/May/2012, "Moduli spaces of foliations and the variety of complexes", Seminario di Geometría, Universita di Roma II, Tor Vergata (Italia).
- (75) 30/July-1/August//2012, "On deformations and unfoldings of integrable forms", FolgaM (Folheacoes Holomorfas e Geometria Algebrica em Minas), Conference in honour of Marcio Soares on the occasion of his 60th birthday. Belo Horizonte, Brazil.
<http://www.mat.ufmg.br/folgam/>
- (76) 26/April/2013, "On deformations of varieties and foliations", Colóquio de Geometría e Aritmética, Rio de Janeiro, Brazil.
<http://w3.impa.br/~colga/>
- (77) 18/July/2013, "Clasificación de superficies de Riemann", IV Encuentro Regional de Teoría de Números. Universidad de Buenos Aires.
<http://mate.dm.uba.ar/~apacetti/ERTN/IVERTN.htm>
- (78) 13-16/September/2013, "Introduction to algebraic geometry", Universidad Pedro Luis Gallo, Chiclayo, Lambayeque, Perú.
- (79) 23/September/2013, "Introduction to algebraic geometry", Universidad Nacional de San Antonio Abad del Cusco, Cusco, Perú.
- (80) 26/September/2013, "Exterior differential systems", Universidad Nacional Mayor de San Marcos, Lima, Perú.
- (81) 6/December/2013, "Espacios de moduli de superficies de Riemann", V Encuentro Regional de Teoría de Números, FAMAF, Universidad Nacional de Córdoba.
<http://www.famaf.unc.edu.ar/~ciem/VTEORIA/>
- (82) 15/April/2014, "Families of foliations and varieties of complexes", Harvard-MIT Algebraic Geometry Seminar, Harvard University (Cambridge, MA, USA).
<http://www.math.harvard.edu/cgi-bin/archive.pl>
- (83) 18/April/2014, "Geometry of moduli spaces of foliations on algebraic varieties", Algebraic Geometry Seminar, Brown University (Providence, RI, USA).
<http://www.math.brown.edu/~abrmovic/SEMINAR/>
- (84) 23/April/2014, "Geometry of moduli spaces of foliations on algebraic varieties", Mathematics Department Colloquium, Rutgers University (Newark, NJ, USA).
<http://andromeda.rutgers.edu/~sakellar/colloquium/cukierman.pdf>
<http://math.newark.rutgers.edu/%7Exiaowwan/Colloquium/>
- (85) 1/October/2015, "Deformations of exterior differential systems", UBA-CAECE Meeting 2015.
- (86) 2/August/2016, "Stability of logarithmic one-forms", CoAlAGA, AliciaFest, Buenos Aires.
- (87) November/2016, Minicurso "Introducción al cálculo diferencial en esquemas", en Conferencia sobre Espacios de Moduli, Teoría Geométrica de Invariantes y Foliaciones Holomorfas, Pontificia Universidad Católica del Perú.
- (88) 12/December/2016. "Introduction to the geometry of moduli spaces of foliations". Algebraic Geometry Seminar, Universidad de la Frontera. Temuco, Chile.
- (89) 8/February/2017, "Pull-back components for exterior differential systems", UFF Niteroi, Brazil.
- (90) 10/February/2017, "Stability of logarithmic differential one-forms", 14th ALGA, IMPA, Rio de Janeiro, Brazil.

- http://www.impa.br/opencms/en/eventos/store_2017/evento_1704
<https://www.youtube.com/watch?v=dKg1XbzVX2I>
- (91) 7/June/2017, "Deformations of exterior differential systems", Colloquium talk, FAMAFA, Córdoba, Argentina.
- (92) 11/September/2017, "Stability of logarithmic differential one-forms", CIMPA Research School "Group actions on algebraic varieties", Lima, Perú.
<https://sites.google.com/site/cimpaperu2017/>
- (93) 10/May/2018, "Deformations of varieties and of differential ideals", Mathematics Department Colloquium, Univ. Minas Gerais, Belo Horizonte, Brazil.
- (94) 31/March/2006-present, several talks in the Algebraic Geometry Seminar (Buenos Aires).
<http://cms.dm.uba.ar/actividades/seminarios/sga/1102.htm>

ASSISTANCE TO OTHER CONGRESSES AND SEMINARS

- (1) August 1980, First Argentina-Chile Algebra Colloquium, Santiago de Chile.
- (2) 1982-1990, Department Colloquia at University of Chicago, Brown University and University of California.
- (3) 1983-1987, Algebraic Geometry Seminar (organized by W. Fulton and J. Harris), Brown University.
- (4) 1984-1986, Monday night seminar (organized by R. Mac Pherson), Brown University.
- (5) 1985, "Mathematical Orgies (Polylogarithms)", organized by R. Mac Pherson, Brown University.
- (6) 1987-1990, Algebraic Geometry Seminar (organized by M. Green and R. Lazarsfeld), UCLA.
- (7) July/1985, Summer Research Institute on Algebraic Geometry, Bowdoin College, Brunswick, Maine.
- (8) 1986, Conference in honor of David Mumford, Columbia University, New York.
- (9) 1987, Summer Research Institute on Theta Functions, Bowdoin College, Brunswick, Maine.
- (10) 1989, Conference in honor of Phillip Griffiths, Sundance, Utah.
- (11) January 1990, Meeting of the American Mathematical Society, Louisville, Kentucky.
- (12) 1987-1991, Algebraic Geometry West Coast Conference. Several times in Salt Lake City, Utah and Los Angeles.
- (13) January 1991, Meeting of the American Mathematical Society, Denton, Texas.
- (14) 1991, Japan-USA Algebraic Geometry Meeting. Johns Hopkins University, Baltimore, Maryland.
- (15) 1991, USSR-USA Algebraic Geometry Meeting. University of Chicago.
- (16) 1992, Conference on Vector Bundles, UCLA, Los Angeles.
- (17) 1993, Workshop on Intersection Theory, Mathematical Sciences Research Institute, Berkeley, California.
- (18) 1994, Conference on Parameter Spaces, Banach Center, Varsow, Poland.
- (19) 1994, Conference on Moduli Spaces of Curves, Texel Island, Holand.
- (20) 1996, CIMPA Conference on Algebra, Mendoza.
- (21) July 2000, I CLAM (Congreso Latinoamericano de Matemática), IMPA, Rio de Janeiro.
- (22) September 2000, Infinite dimensional Lie theory, Fields Institute, Toronto, Canada.
- (23) August 2001, XIV Coloquio Latinoamericano de Algebra, La Falda, Córdoba (Member of the Organizing Committee).
- (24) 4 to 9 of August 2003. Primer Encuentro Nacional de Algebra, Vaquerías (Córdoba, Argentina), participant and member of the Scientific Committee.
- (25) 25 to 29 of August 2003. Complex analytic methods in dynamical systems, celebrating the 60th birthday of César Camacho. IMPA, Rio de Janeiro.
- (26) 9 to 14 of August 2004. Segundo Encuentro Nacional de Algebra, Vaquerías (Córdoba, Argentina), participant and member of the Scientific Committee.
- (27) 24 to 30 July 2005. Coloquio Brasileiro de Matemática, IMPA, Rio de Janeiro.
- (28) 25/Nov to 1/Dec/2007. Ninth Meeting on Commutative Algebra and Algebraic Geometry, IMPA, Rio de Janeiro.

- (29) 11 to 15 February 2008. Global and Local Aspects of Holomorphic Foliations. In Honor of the 60th Birthday of Alcides Lins Neto. Angra dos Reis, Rio de Janeiro, Brasil.
- (30) 14 to 26 July 2008. International School and Conference on Algebraic Geometry, D-modules and Foliations. Buenos Aires. Coordinator of the Organizing Committee.
- (31) 3 to 7 August 2008. Conference in honor of the 60 years of Israel Vainsencher, FOLGA1. Belo Horizonte (Brazil).
- (32) 6 to 8 May 2009. Geometry of complex differential equations. IMPA, Rio de Janeiro (Brazil).
- (33) 3 to 14 August 2009. Pan-American Advanced Study Institute (PASI) in Commutative Algebra and its Connections to Geometry honoring Wolmer Vasconcelos. Olinda (Brazil).
<http://www.ms.uky.edu/~pasi2009/>
- (34) 17 to 21 August 2009. International Symposium on Differential Geometry in honor of Marcos Dajczer on his 60th birthday, IMPA, Rio de Janeiro.
http://wwwimpa.br/opencms/pt/eventos/store_old/evento_0903
- (35) 24 to 29 January 2010. LEGAL 2010, Liberdade em Geometria Algebrica, Teresopolis-Brazil. Participant and member of the Scientific Committee.
- (36) 9 to 14 of August 2010. Quinto Encuentro Nacional de Algebra (eENA V), La Falda (Córdoba, Argentina), participant and member of the Scientific Committee.
- (37) 27 September to 02 October 2010. Reunión Anual de la Unión Matemática Argentina, Tandil. Participant and co-organizer of the Session on Algebra and Number Theory.
- (38) 23 to 26 of October 2010. Workshop "Geometry of Complex Differential Equations, II". Buenos Aires (FCEN-UBA). Organizer.
- (39) 1 to 12 of August 2011. First Latin American School on Algebraic Geometry (ELGA 1), Argentina. Member of the Scientific Committee and of the Organizing Committee.
<http://mate.dm.uba.ar/~visita16/ELGA-2011/index.shtml>
- (40) 5 to 8 of August 2011. Fourth Latin-American Congress of Mathematicians (CLAM 2012), Córdoba, Argentina.
<http://www.famaf.unc.edu.ar/clam2012/>
- (41) 14 to 17 of December 2016. SUMA 2016, Joint meeting of SOMACHI and UMA. Valparaiso, Chile. Co-organizer of the Algebraic Geometry Session.
- (42) 24 to 28 July 2017. Mathematical Congress of the Americas. Montreal, Canada. Co-organizer of the Session on Foliations and Singularities.
- (43) 21 to 25 August 2017. Lie Theory, Cohomology, and Geometry in Wildrose Country. A workshop in honour of Vladimir Chernousov and Arturo Pianzola.
<https://sites.google.com/a/ualberta.ca/lcg/home>

SOME VISITS

- Visiting Professor, UBA (FCEN), June to August of 1989, 1991,1992 and 1993.
- IMPA (Rio de Janeiro), 1/7/91-15/7/91.
- Universidad Autónoma de Madrid, January 1994.
- ICTP (Trieste), August 1994.
- Universidad de Córdoba (FAMAF), 7/96-12/96 part-time.
- Universidad Autónoma de Madrid, September 1996.
- IMPA (Rio de Janeiro), 9/1/97-9/2/97.
- Università di Roma III, 1/2/99-1/3/99
- Instituto de Matemática y Ciencias Afines (IMCA), Lima, Perú, 20/6-20/7/2000.
- Fields Institute, Toronto, Canadá, 20/9-30/9/2000.
- IMPA, Rio de Janeiro, January to March 2001.
- Université de Rennes, France, February 2004.
- IMPA, Rio de Janeiro, February 2005.
- Università di Pavia, Italy, 28/6-14/7/2009 (INDAM).
- Università di Roma III, Italy, 15/7-27/7/2009 (INDAM).
- Politecnico di Torino, Italy, May/2012 (INDAM).
- Cátedra Tola Pasquel, Pontificia Universidad Católica del Perú, 1 to 30 September 2013.

PRIZES AND GRANTS

- Franz and Gertrude Meyer Prize, University of Chicago, 1983.
- Grant National Science Foundation, 1987-1990.
- New Faculty Grant, University of Kansas, 1991.
- General Research Fund Grant, University of Kansas, 1992.
- Re-entry Grant, Fundación Antorchas, 1995.
- Re-entry Grant, PROCITEXT (SECyT), 1995.
- Prize to scientific productivity (UBA), 1995.
- Grant UBACyT, Geometría Analítica y Geometría Algebraica, Ex 122(1994-1997).
- Grant Third World Academy of Sciences, 3/1997-9/1998.
- Grant Agencia de Promoción Científica y Tecnológica, Project: Algebra y Geometría, PICT97 2258, (1998-2000).
- Grant UBACyT (Type C), X193, Algebra y Geometría, (2001-2003).
- Grant UBACyT, X189, Geometría y Topología Algebraica, (2004-2007).
- Grant UBACyT, X830 (2006-2009), Project: Moduli de Foliaciones y Teorias de Cohomología.
- Grant CAPES (Brasil)-SPU (Argentina). Project: Dinámica Compleja y Geometría Algebraica, CAPG-BA 002/02. 2002-2008. Coordinators: C. Camacho (IMPA), F. Cukierman (FCEN-UBA).
- Grant CAPES (Brasil)-SPU (Argentina). Project: Dinámica Compleja y Geometría Algebraica, CAPG-BA 036/08. 2009-2011. Coordinators: C. Camacho (IMPA), F. Cukierman (FCEN-UBA).
- Grant UBACyT, X056 (2008-2010), Project: Geometría de Espacios de Moduli de Foliaciones.
- Grant UBACyT, 20020100100242 (2011-2014), Project: Geometría Algebraica, Categorías y Aplicaciones. Coordinator: A. Dickenstein.
- Grant UBACyT, 20020130100207BA (2014-2017), Project: Geometría Algebraica, Categorías y Aplicaciones. Coordinator: A. Dickenstein.
- Grant CONICET, PIP 2009-2011, Project: Geometría Algebraica, Topología Algebraica, Categorías y Aplicaciones. Coordinator: A. Dickenstein.
- Grant CONICET, PIP 2012-2014, Project: Geometría Algebraica, Topología Algebraica, Categorías y Aplicaciones. Coordinator: A. Dickenstein.
- Grant CONICET, PIP 2015-2017, Project: Geometría Algebraica, Topología Algebraica, Categorías y Aplicaciones. Coordinator: A. Dickenstein.

SERVICE, EXTENSION AND ADMINISTRATION

- Member of Curricular and Library Committees, 1987-1990, University of Kansas.
- Reviewer of Mathematical Reviews and of Zentralblatt.
- Referee of Transactions AMS, Compositio Math., Duke Math. J., Journal of Algebraic Geometry, etc.
- Project reviewer, National Science Foundation (USA).
- Member of Curricular Committees of the Unión Matemática Argentina: Algebra (Bahía Blanca, 7/96), Geometry and Topology (Buenos Aires, 11/96).
- Member of Curricular Committee, Math. Dept., FCEN-UBA: 1995, 1996, 1997.
- Member of the Comisión Técnica Asesora 1 (Física, Matemática y Química), SECyT-UBA, 1997-1998 (Res. CS-UBA, 5894/97).
- Member of the Advisory Board in Mathematics, CONICET, 5/98 - 3/99.
- Member of the Fellowships Committee for Mathematics, CONICET, 1999, 2000, 2001.
- Project reviewer for ANPCyT, CONICET, Incentivos, Antorchas, CONEAU, UBA.
- Member of the Doctorate Sub-Committee, Math. Dept., FCEN-UBA, 1998-4/2007 (Res. CD-FCEN, 980/98).
- Coordinator of the XII Meeting of Research Fellows in Physics-Engineering-Mathematics, Universidad de Buenos Aires, October 1998.
- Coordinator of the XIII Meeting of Research Fellows in Physics-Engineering-Mathematics, Universidad de Buenos Aires, October 1999.
- Member of the Doctorate Committee of the FCEN-UBA, May 2003-April 2007 (Res. CD-FCEN 0634/2003, 5/5/2003 y Res. CD-FCEN 0614, 25/4/2005).
- Member of the Library Committee of the FCEN-UBA, 1997-2003 (Res. CD-FCEN, 0090/99).
- Coordinator of the Rey Pastor Library, Math. Dept., FCEN-UBA, 1995-2005.
- Vice-Coordinator of the Advisory Committee for Mathematics and Computation, CONICET, 2005 (Res. D No. 09/05, 14/1/05).
- Director of the Mathematics Department, FCEN-UBA, 11/2002-10/2005 (Res. CD-FCEN 1903, 18/11/2002 y Res. CD-FCEN 2551, 27/12/2004).
- Coordinator of the UMALCA School EMALCA (Lima, Perú, February 2008).
- Jury of the Program for Promotion of Scientific and Technological Activities of the Province of Santa Fé (Argentina), 2008-2012.
- Jury of Prizes for Master and Doctoral Thesis, Secretary of Science and Technology, Province of Santa Fé (Argentina), 2008-2012.
- Member of "Consejo Académico Asesor del Instituto Interdisciplinario de Altos Estudios Israel-América Latina", University of Buenos Aires, 2009-2012.
- Vice-coordinator of the Fellowships Committee for Mathematics, CONICET, 2011.

- Coordinator of the Fellowships Committee for Mathematics, CONICET, 2012.

ACTIVITY AS JURY IN CONCURSOS AND THESIS

Jury in Concursos for Professors:

- Concurso Interino for Assistant Professor, Full Time, Area: Algebra or Lógica, FCEN-UBA, 1999.
- Concurso Regular for Assistant Professor, Area: Lie Theory, FAMA-UNC, 1999.
- Concurso de Renovación for Prof. Jorge Zilber (FCEN-UBA, 2002).
- Concurso de Renovación for Prof. Adrián Paenza (FCEN-UBA, 2004).
- Concurso Regular for Assistant Professor, Part Time, Area: Lie Theory, FAMA-UNC, 2005.
- Concurso Regular for Assistant Professor, Part Time, Area: Number Theory, FAMA-UNC, 2005.
- Concurso Regular for Assistant Professor, Part Time, Area: Lie Theory, FAMA-UNC, 2005.
- Concurso de Renovación for Prof. Esther Galina (FAMA-UNC, 2007).
- Concurso Regular for Assistant Professor, Part Time, (3 positions in area Algebra), Universidad Nacional del Comahue, Facultad de Economía y Administración, 9/9/2010.
- Concurso Regular for Full Professor, Full Time, Area: Algebra and Geometry, Universidad Nacional del Sur (Bahia Blanca), 2011.
- Concurso Regular for Assistant Professor, Full Time, Area: Discrete Mathematics, Universidad Nacional del Sur (Bahia Blanca), 2011.
- Concurso Regular for Assistant Professor, Part Time, Area: Algebra and Logic, FCEN-UBA, 2011.
- Concurso Interino for Assistant Professor, Part Time, Area: Mathematics, FCEN-UBA, 2012.

Jury in Concursos for Teaching Assistants (FCEN-UBA): 1995, 1997, 1999, 2001, 2002, 2009.

Jury for Doctoral Thesis:

- Susana Puddu, 1996, FCEN-UBA.
- Guillermo Matera, 1997, FCEN-UBA.
- Carlos D'Andrea, 2001, FCEN-UBA.
- J. Bigeon, 2002, FAMA-UNC.
- Daniel Perrucci, 2008, FCEN-UBA.
- Viviana Ferrer, 2010, UFMG-Belo Horizonte-Brasil.
- Federico Martínez, 2011, FCEN-UBA.
- Tan Xiaobai, 2014, Univ. of Alberta, Edmonton, Canada.
- Martin Szyld, 2015, FCEN-UBA.
- Anibal Amoreo, 2015, FCEN-UBA.
- Maximiliano Camporino, 2015, FCEN-UBA.
- Daniel Kohen, 2017, FCEN-UBA.
- Artur Rossini, 2018, UFMG, Belo Horizonte, Brazil.

Jury for Licenciatura Thesis:

Marco Farinati, 1996, FCEN-UBA.
Carlos D'Andrea, 1997, FCEN-UBA.
Manuela Blaum, 1997, FCEN-UBA.
Mariela Sued, 1998, FCEN-UBA.
Constanza de la Vega, 1998, FCEN-UBA.
Gabriel Larotonda, 1999, FCEN-UBA.
Matilde Lalín, 2000, FCEN-UBA.
Gastón García, 2001, FCEN-UBA.
Patricia Palacios, 2002, FCEN-UBA.
Ezequiel Martín, 2004, FCEN-UBA.
Silvia Adduci, 2004, FCEN-UBA.
María Angélica Cueto, 2006, FCEN-UBA.
Nicolás Botbol, 2006, FCEN-UBA.
Isabel Herrero, 2007, FCEN-UBA.
Sergio Yuhjtman 2007, FCEN-UBA.
Laura Pezzatti, 2009, FCEN-UBA.
Martin Szyld, 2009, FCEN-UBA.
Emilia Descotte, 2010, FCEN-UBA.
Cristian Czubara, 2011, FCEN-UBA.
Marcos Cossarini, 2012, FCEN-UBA.
Daniel Kohen, 2013, FCEN-UBA.
Magali Giaroli, 2014, FCEN-UBA.
Federico Carrá, 2014, FCEN-UBA.
Facundo Poggi, 2015, FCEN-UBA.
Nicolas Canevalli, 2016, FCEN-UBA.
Luis Scoccola, 2016, FCEN-UBA.

ORGANIZATION OF SCIENTIFIC MEETINGS

- Co-Organizator of Encuentros Rioplatenses de Algebra y Geometría Algebraica, 1995-2007.
<http://cms.dm.uba.ar/congresos/erag/>
- Member of the Scientific Committee of Encuentros Nacionales de Algebra.
<http://cms.dm.uba.ar/congresos/elena4>
- Member of the Organizing Committee of the XIV Coloquio Latinoamericano de Algebra, La Falda, Córdoba, Agosto 2001.
- Coordinator of the Scientific Committee of the International School and Congress of Algebraic Geometry, D-modules and Foliations (Buenos Aires, 14 to 26 July of 2008).
<http://mate.dm.uba.ar/~fcukier/dagfo/dagfo08.htm>
<http://mate.dm.uba.ar/~fcukier/seminario.htm>
- LEGAL 2010, Liberdade em Geometria Algebraica, Teresopolis-Brazil, 24/Jan to 29/Jan/2010. Member of the Scientific Committee.
<http://www.mat.uff.br/legal/>
- Anual Meeting of the Unión Matemática Argentina, Tandil, 27/09 to 02/10/2010. Participant and co-organizer of the Session on Algebra and Number Theory.
<http://www.exa.unicen.edu.ar/uma2010/uma.php>
- Workshop "Geometry of Complex Differential Equations, II". Buenos Aires (FCEN-UBA), 23/11 to 26/11/2010. Organizer.
<http://mate.dm.uba.ar/~fcukier/workshop/workshop1.htm>
- First Latin American School on Algebraic Geometry (ELGA 1), Argentina (August 2011). Member of the Scientific Committee and of the Organizing Committee.
<http://mate.dm.uba.ar/~visita16/ELGA-2011//index.shtml>
- Coordinator of the Algebraic Geometry Seminar, Math. Dept., FCEN-UBA, March 2006-present.
<http://cms.dm.uba.ar/actividades/seminarios/sga/1201.htm>