

# Francisco Kordon

## Curriculum Vitæ

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\* April 19, 1989, Buenos Aires, Argentina

### CURRENT POSITION

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- Apr. 2014 – present PhD student at University of Buenos Aires (UBA) with a CONICET full grant. Advisor: Prof. Mariano Suárez-Álvarez.
- Apr. 2017 – present Chief Teaching assistant (*Jefe de Trabajos Prácticos*) at Departamento de Matemática, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires.
- Mar. 2010 – present Teaching assistant (*Ayudante de segunda/primer*a) at Ciclo Básico Común, Universidad de Buenos Aires.

### EDUCATION

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- PhD in Mathematics (in course since Apr. 2014) at Universidad de Buenos Aires.
- 2014 Licenciado en Matemática at Universidad de Buenos Aires. My thesis, titled *Hamiltonian Systems: Integrability and Symmetries*, was done in Instituto Balseiro, Bariloche, Argentina, under the advise of Dr. Sergio Grillo.
- 2006 Perito Mercantil, Escuela Superior de Comercio “Carlos Pellegrini”.

### SCIENTIFIC EXPERIENCE

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#### ARTICLES

- 2018 *The Hochschild cohomology of the enveloping algebra of a Lie-Rinehart pair*. Preprint available at [rxiv:1810.02901](https://arxiv.org/abs/1810.02901).
- 2018 *Hochschild cohomology of algebras of differential operators tangent to a central arrangement of lines*, with Mariano Suárez-Álvarez. Accepted for publication in *Documenta Mathematica*. Preprint available at [arxiv:1807.10372](https://arxiv.org/abs/1807.10372).

#### TALKS AND EXPOSITIONS

- 2018 I gave a 40 minutes talk with title *The Hochschild cohomology of the enveloping algebra of a Lie-Rinehart pair* at CIMPA School on Noncommutative Geometry and Index Theory in Mérida, México.

- 2018 I gave a 20 minutes talk with title *La cohomología de Hochschild del álgebra envolvente de un par de Lie–Rinehart* at the annual meeting of the Unión Matemática Argentina in La Plata, Argentina.
- 2018 I presented a poster on the Hochschild cohomology of the enveloping algebra of a Lie–Rinehart pair at the International Congress of Mathematicians 2018 in Río de Janeiro, Brasil.
- 2018 I gave a one hour lecture with title *Hochschild cohomology of algebras of differential operators tangent to a hyperplane arrangement* at the Séminaire (Algèbre et Géométries), Institut Fourier, Grenoble, France.
- 2018 I gave a one hour lecture with title *Hochschild cohomology of algebras of differential operators tangent to a hyperplane arrangement* at the Séminaire d’Algèbre, Laboratoire de recherche en mathématiques Lyon/Saint-Étienne, Lyon, France.
- 2018 I gave a one hour lecture with title *Hochschild cohomology of algebras of differential operators tangent to a hyperplane arrangement* at the Séminaire et Groupe de travail GAAO, Université Clermont-Auvergne, Clermont-Ferrand, France.
- 2017 I gave a 30 minutes talk with title *Deformaciones de álgebras de operadores diferenciales asociadas a arreglos de hiperplanos* at the XXVI Encuentro Rioplatense de Álgebra y Geometría, International Center for Advanced Studies, Universidad de San Martín, Buenos Aires, Argentina.
- 2017 I gave a 20 minutes talk with title *Deformaciones de álgebras de operadores diferenciales asociadas a arreglos de hiperplanos* at the Primer Encuentro Conjunto de la Real Sociedad Matemática Española y la Unión Matemática Argentina, Universidad de Buenos Aires, Argentina.
- 2016 I gave a 20 minutes talk with title *Cohomología del álgebra de operadores diferenciales de arreglos de hiperplanos* at the annual meeting of the Argentinian Mathematical Union, Universidad Nacional del Sur, Bahía Blanca, Argentina.

## RESEARCH VISITS

- 2019 I stayed in Clermont-Ferrand, France, working at the Laboratoire de Mathématiques, Université Clermont-Auvergne with Prof. Thierry Lambre for one month.
- 2018 I stayed in Clermont-Ferrand, France, working at the Laboratoire de Mathématiques, Université Clermont-Auvergne with Prof. Thierry Lambre for three months.
- 2013 I stayed in San Carlos de Bariloche, Argentina, working at the Instituto Balseiro, Centro Atómico Bariloche, with Prof. Sergio Grillo for five months.

## TEACHING EXPERIENCE

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*The following are different forms of a teaching assistant.*

- Apr 2017 – present Jefe de trabajos prácticos (Chief Teaching Assistant) at Departamento de Matemática, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires  
*Subjects: Logic and Computability, Algebra II*

- Aug. 2015 – Mar. 2017 Ayudante de primera, part-time dedication, at Departamento de Matemática, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires  
*Subjects: Projective Geometry (two times), Differential Geometry.*
- Apr. 2010 – present Ayudante de segunda, part-time dedication, at Ciclo Básico Común, Universidad de Buenos Aires  
*Subjects: Mathematical Analysis, Algebra, Mathematics (several times each).*
- Mar. 2012 – Feb. 2014 Ayudante de segunda, part-time dedication, at Departamento de Matemática, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires  
*Subjects: Advanced Calculus, Mathematical Analysis for Biologists.*

## OTHER SCIENTIFIC EXPERIENCE

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### ATTENDANCE TO SCIENTIFIC EVENTS

- 2018 CIMPA School “Noncommutative Geometry and Index Theory”,  
*Mérida, México.*
- 2018 Workshop on Mathematical Physics,  
*Instituto de Fisica Teorica, San Pablo, Brasil.*
- 2018 International Congress of Mathematicians 2018,  
*Río de Janeiro, Brasil.*
- 2017 XXVI Encuentro Rioplatense de Álgebra y Geometría,  
*International Center for Advanced Studies, Universidad de San Martín, Argentina.*
- 2017 Primer Encuentro Conjunto de la Real Sociedad Matemática Española y la Unión Matemática Argentina,  
*Universidad de Buenos Aires, Ciudad de Buenos Aires, Argentina.*
- 2016 Argentinian Mathematical Union Annual Meeting,  
*Universidad Nacional del Sur, Bahía Blanca, Argentina.*
- 2016 XXV Encuentro Rioplatense de Álgebra y Geometría,  
*Universidad Nacional de La Plata, La Plata, Argentina.*
- 2016 XXI Coloquio Latinoamericano de Álgebra,  
*Universidad de Buenos Aires, Buenos Aires, Argentina.*
- 2016 CIMPA School “Homological Methods, Representation Theory and Cluster Algebras”,  
*Universidad de Mar del Plata, Mar del Plata, Argentina.*
- 2015 XXIV Encuentro Rioplatense de Álgebra y Geometría,  
*Universidad de la República, Montevideo, Uruguay.*
- 2015 CIMPA School “Non-commutative algebra”,  
*Universidad de Panamá – Centro Regional Universitario Coclé, Panamá.*

- 2015 VII Luis A. Santaló Winter School – Differential Geometry and Dynamical Systems,  
*Universidad de Buenos Aires, Buenos Aires, Argentina.*
- 2015 II Latin American School of Algebraic Geometry and Applications,  
*Cabo Frío, Brazil.*
- 2015 XIII Congreso Dr. Antonio Monteiro – Main subject: algebra,  
*Universidad Nacional del Sur, Bahía Blanca, Argentina.*
- 2015 Workshop “la matemática como herramienta para entender la biología – la biología como fuente de problemas matemáticos”,  
*Universidad de Buenos Aires, Buenos Aires, Argentina.*
- 2014 Encuentro Nacional de Álgebra,  
*La Falda, Córdoba, Argentina*
- 2012 Argentinian Mathematical Union Annual Meeting,  
*Universidad Nacional de Córdoba, Córdoba, Argentina*

### SCIENTIFIC POPULARIZATION

- 2016 Exhibitor at Maths Week,  
*May 3 to 5 – Pabellón 2, Ciudad Universitaria, Buenos Aires. Organized by Departamento de Matemática, FCEN, UBA.*
- 2014 Guide at Festival de la Matemática 2014  
*July 5 to 7 – Pabellón 3, Ciudad Universitaria, Buenos Aires. Organized by the mathematical area of CBC, UBA.*
- 2013 Exhibitor at Maths Week,  
*Apr. 23 to 25 – Pabellón 2, Ciudad Universitaria, Buenos Aires. Organized by Departamento de Matemática, FCEN, UBA.*
- 2010 Exhibitor at “Una ventana a la matemática”  
*May 6 to 8 – Centro Cultural San Martín, Buenos Aires. Organized by the mathematical area of CBC, UBA.*
- 2010 Educational guide at “Science Tunnel”,  
*Mar. 1 to Apr. 20 – Palacio Pizzurno, Buenos Aires. Organized by the Ministry of Science and Technology of Argentina and the Max Planck Society.*

### LANGUAGE SKILLS

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English First Certificate in English, Grade A.  
*University of Cambridge, June 2008.*  
I speak, write and read fluently.

French Basic level of writing and speaking skills; intermediate reading.