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EDUCATION

December 2012 Doctorado en Ciencias Matemáticas, Universidad de Buenos Aires.
August 2010 Licenciatura en Ciencias Matemáticas, Universidad de Buenos Aires.

EMPLOYMENT

2019 - Investigador Principal, IMAS-CONICET
2018 - Profesor Titular, Universidad de Buenos Aires.
2014 - 2018 Clay Research Fellow, Clay Mathematics Institute.
2013 - 2014 Postdoctoral Researcher, University of Oxford.

OTHER POSITIONS

2023 - 2024 Von Neumann Fellow, Institute for Advanced Study, Princeton.
2018 Senior Fellow, IPAM, University of California, Los Angeles.
2017 Member, MSRI, Berkeley.
2014 - 2017 Fellow of Merton College, University of Oxford.

SHORT VISITS

2017 Universite Paris VII, France.
2014 University of Chicago, USA.
2014 Northwestern University, USA.
2013 University of California, Los Angeles, USA.
2013 Ecole Normale Superieure, Paris, France.
2013 Institute for Advanced Study, Princeton, USA.
2013 Courant Institute, New York, USA.
2013 University of Cambridge, Cambridge, UK.
2012 Stanford University, California, USA.
2011 Universidad de Chile, Santiago, Chile.

AWARDS AND DISTINCTIONS

- 2024 *IMSA Prize for Young Mathematicians*
Institute of the Mathematical Sciences of the Americas.
- 2023 *Von Neumann Fellowship*
Institute for Advanced Study, Princeton.
- 2021 *Plenary Speaker*
Mathematical Congress of the Americas.
- 2018 *Invited Speaker*
International Congress of Mathematicians.
- 2014 *Ramanujan Prize*
International Centre for Theoretical Physics and International Mathematical Union.
- 2014 *Clay Research Fellowship*
Clay Mathematics Institute.
- 2014 *Premio Miguel Herrera*
Academia Nacional de Ciencias Exactas, Físicas y Naturales.
- 2014 *Premio Enrique Gaviola*
Academia Nacional de Ciencias.
- 2013 *MCA Prize*
Mathematical Council of the Americas.

PUBLICATIONS

- *Stability under scaling in the local phases of multiplicative functions*
Preprint available at arXiv:2310.07873.
- *Phase relations and pyramids*
Preprint available at arXiv:2304.09792.
- *Concentration estimates for algebraic intersections*
American Journal of Mathematics **145** (2023), no. 2, 435-475.
- *Local uniformity through larger scales*
Geometric and Functional Analysis **31** (2021), 981-991.
- *The polynomial method over varieties*
Inventiones Mathematicae **222** (2020), 469-512.
- *Characteristic subsets and the polynomial method*
Proceedings of the International Congress of Mathematicians 2018, Volume II, 467-485.
- *Bounded rational points on curves*
Int. Math. Res. Not. IMRN 2015, no. 14, 5644-5658.
- *The algebraicity of ill-distributed sets*
Geometric and Functional Analysis **24** (2014), no. 3, 959-967.
- *Norm convergence of nilpotent ergodic averages*
Annals of Mathematics **175** (2012), no. 3, 1667-1688.
- *The inverse sieve problem in high dimensions*
Duke Mathematical Journal **161** (2012), no. 10, 2001-2022.