

# Latinxs and Hispanics in Mathematical Sciences



## Matilde Lalín

Dr. Lalín grew up in Buenos Aires, Argentina. She has been interested in science since very young and dreamed of being an astronomer when she was in elementary school. She became particularly keen on mathematics in high-school when she started participating in the Argentinean Mathematical Olympiad (OMA). At the olympiads she learned a lot of mathematics, traveled to distant places, and met some of her closest friends for life. She earned a licenciatura degree at the University of Buenos Aires in 1999 and a PhD under the guidance of Fernando Rodriguez-Villegas at the University of Texas at Austin in 2005, where she was a Harrington Fellow. She was a member at the Institute for Advanced Study, a visitor at MSRI, IHES, and the Max Planck Institute, and a PIMS postdoctoral fellow at the University of British Columbia. In 2007 she started as an Assistant Professor at the University of Alberta, and in 2010 she moved to Université de Montréal, where she is currently a Professor and a member of the Centre de recherches mathématiques (CRM).

Dr. Lalín works in Number Theory. She has several research interests that revolve around L-functions, which can be described as generalizations of the Riemann zeta function, and elliptic curves. Since her PhD thesis, she has been working with Mahler measure, which is a height that can be defined on polynomials. One of the results of her thesis relates the Mahler measure of a 5-variable polynomial to the Riemann zeta function evaluated at 5. She has been studying relations between special values of L-functions and Mahler measures and contributing to the understanding of very general statements such as the Beilinson's conjectures. These questions have led her to the study of polylogarithms and regulators and to applications to Low-Dimensional Topology. She has also been very interested in distribution questions around L-functions, and that led her to study questions in Arithmetic Statistics of function fields involving the distribution of the number of points and of zeta zeroes in families of curves and moments of L-functions.

She is currently the Vice-President (Quebec) of the CMS. She serves at the Board of Directors of the Banff International Research Station (BIRS) and has served in the NSERC Discovery Grant Mathematics and Statistics Evaluation Group both as member and as Pure Mathematics stream chair. She has been a member of several scientific committees, including those of BIRS and CRM. She is an editor for the Publications Mathématiques de Besançon - Algèbre et Théorie des Nombres.

*"My culture and my heritage are an essential part of me and influence how I view the world and how I do mathematics. I welcome the opportunity to get to know other members of the Hispanic community, to learn from their struggles, and to celebrate their contributions and achievements, both in life and in an ever evolving and increasingly complex mathematics world."*

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Lathisms was founded in 2016 in order to showcase the contributions of Latinx and Hispanic mathematicians during Hispanic Heritage Month, which is celebrated in the United States from September 15 and October 15 every year. During this time, we feature/reveal a prominent Latinx/Hispanic mathematician daily. See all the featured mathematical scientists at [LATHISMS.ORG](http://LATHISMS.ORG).

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