

Latinxs and Hispanics in Mathematical Sciences



Photo courtesy of Devin Bittner

"Many words come to mind: home, sharing, warmth, 'tango', smiles, hugs, humility, 'mate', nature, connection. To me, it means opening my home, sharing my roots and warmth when I greet others, inviting someone to dance a 'tanda' of 'tangos', and offering my humble perspective while connecting with nature over a few 'mates'."

Dr. Rocío Díaz Martín

Postdoc

Tufts University

Rocío Díaz Martín is an Argentinian mathematician and a Postdoctoral Researcher at Tufts University. She earned her Ph.D. from the Universidad Nacional de Córdoba, Argentina—an institution with over 400 years of history, known for its pioneering university reform of 1918. She later moved from Córdoba to Buenos Aires, and then to the United States, where she held postdoctoral positions at Vanderbilt University and Tufts University. In Argentina, she was funded by CONICET (Consejo Nacional de Investigaciones Científicas y Técnicas), a prestigious institution that ranks first among government research organizations in Latin America and one she is proud to have been supported by. She has accepted an Assistant Professor position at Florida State University, beginning in Fall 2025.

As far as research is concerned, her work is grounded in the field of Harmonic Analysis. Her early research was in Abstract Harmonic Analysis, and her Ph.D. thesis focused on the spherical Fourier transform on Lie groups. She is currently deeply engaged in applying Optimal Transport Theory to data and signal analysis, as well as Machine Learning, introducing ideas from Harmonic Analysis into these areas. She is also interested in Sampling and Frame Theory, particularly in Dynamical Sampling—a topic she began pursuing due to its intriguing connection to Control Theory, especially the observability problem. Additionally, she has advised or co-advised three undergraduate theses on wavelets and optimal transport.

As far as teaching is concerned, she has taught a wide variety of mathematics courses, from lower- to upper-level, working with students from diverse disciplines, interests, and ways of thinking. She has taught in two countries, Argentina (at the Universidad Nacional de Córdoba and the Universidad de Buenos Aires) and the United States (at Vanderbilt University and Tufts University), in Spanish and English, respectively, although mathematics itself can also be seen as a common language. 😊

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.

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