

# Latinxs and Hispanics in Mathematical Sciences



Photo courtesy of Daniel Birmajer

*"Hispanic Heritage Month is a time for me to honor my roots, celebrate my journey from Argentina to the United States, and reflect on the diverse cultures that shape who I am. It reminds me of the value of community, resilience, and sharing knowledge across borders. As an educator and a soccer referee, I see the beauty of cultural connections every day. This month inspires me to help others discover their potential, embrace their heritage with pride, and contribute their unique voices to the rich tapestry of our society."*

## Dr. Daniel Birmajer

Professor  
Nazareth University

Daniel Birmajer is a Professor of Mathematics at Nazareth University in Rochester, New York, where he has taught since 2003. He earned his Ph.D. in Mathematics from Temple University, focusing his dissertation on polynomial detection of matrix subalgebras under the direction of Edward Letzter, and holds the title of Licenciado en Matemáticas from the University of Buenos Aires, Argentina. Earlier in his career, he taught mathematics and computer science at several institutions in Buenos Aires, where he also developed courses to prepare talented high school students for the International Olympiad in Informatics.

Outside his academic life, Daniel is a U.S. Soccer referee at the Regional level and a referee mentor. He enjoys spending time with players, coaches, and parents, and treasures being part of the vibrant soccer community in his hometown of Rochester as well as at tournaments across the United States. Whether on the field or in the classroom, he finds fulfillment in building connections, sharing knowledge, and contributing to communities he cares about.

Daniel's research lies at the intersection of combinatorics, algebra, and number theory, with a particular focus on enumerative combinatorics and special sequences. Among his many publications, he co-authored a paper with Juan Gil of Penn State Altoona titled "Arithmetic in the Ring of Formal Power Series with Integer Coefficients," published in the American Mathematical Monthly. Another significant collaboration with Juan Gil and Mike Weiner led to their paper "Some Convolution Identities and an Inverse Relation Involving Partial Bell Polynomials" in the Electronic Journal of Combinatorics. His work also explores topics such as rational Dyck paths, Bell polynomials, and the enumeration of restricted combinatorial structures.

Beyond research, Daniel is deeply committed to mathematics education and community engagement. At Nazareth University, he mentors undergraduate research, leads student teams in mathematical modeling competitions, and actively participates in national and regional mathematics organizations. He has held leadership roles in the Seaway Section of the Mathematical Association of America, serving as treasurer, secretary, and student chapter coordinator, and is a Project NExT fellow dedicated to improving undergraduate mathematics teaching. He is also part of the PROTEUS NSF project, working to develop interactive learning materials and foster collaborative approaches to STEM education.

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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](https://lathisms.org).

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