

# Latinxs and Hispanics in Mathematical Sciences



## Jesús De Loera

Jesús De Loera is an expert in the field of Discrete Mathematics, but his research encompasses a diverse set of topics including his work in (pure) convex geometry, algebraic combinatorics, and combinatorial commutative algebra, as well as his (applied) work in combinatorial optimization and algorithms. In addition to more than 80 published research papers, he has co-written two graduate level textbooks: *Triangulations: Structures for Algorithms and Applications* (Springer, with J. Rambau and F. Santos) and *Algebraic and Geometric Ideas in the Theory of Discrete Optimization* (SIAM, with R. Hemmecke and M. Koeppel). The first is a treatise about combinatorics of triangulations of polytopes and the second an introduction to the state of the art in algebraic-geometric algorithms in optimization. In general, he enjoys rethinking mathematics in terms of algorithmic questions and understanding how computers can be "taught" to discover or prove theorems (e.g., automatically produce rational generating functions from geometric counting questions). He approaches difficult computational problems using tools from algebra, combinatorics, convex geometry, and topology. He believes in the exciting future of interdisciplinary work. Some of his favorite mathematical objects are polytopes, which are multidimensional generalizations of polygons and cubes (some pretty ones seen in the pictures above).

*"I think we need to support our community indeed. Other communities (e.g., Asian mathematicians) are better connected and network more than us. I try to do my part; I am the mentor of the local club of Chican@s and Latin@s in Engineering and Science."*

Jesús De Loera was born and raised in Mexico City. He received his Bachelor of Science degree in Mathematics from the National University of Mexico in 1989, a M.A. in Mathematics from Western Michigan in 1990, and a Ph.D. in Applied Mathematics from Cornell University in 1995. He arrived at UC Davis in 1999, where he is now Professor of Mathematics as well as a member of the Graduate groups in Computer Science and Applied Mathematics. He has held visiting positions at the University of Minnesota, the Swiss Federal Technology Institute (ETH Zürich), the Mathematical Science Institute at Berkeley (MSRI), Universität Magdeburg (Germany), the Institute for Pure and Applied Mathematics at UCLA (IPAM), the Newton Institute of Cambridge Univ. (UK), and the Technische Universität München. He has taught courses at universities in the USA, Mexico, Germany and Switzerland.

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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).

*Thanks to the American Mathematical Society and the Mathematical Association of America for support of Lathisms.*

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