Sixty-three mathematical scientists from around the world have been named Fellows of the American Mathematical Society (AMS) for 2018.

The Fellows of the American Mathematical Society program recognizes members who have made outstanding contributions to the creation, exposition, advancement, communication, and utilization of mathematics. Among the goals of the program are to create an enlarged class of mathematicians recognized by their peers as distinguished for their contributions to the profession and to honor excellence.

The 2018 class of Fellows was honored at a dessert reception held during the Joint Mathematics Meetings in San Diego, California. Names of the individuals who are in this year’s class, their institutions, and citations appear below.

The nomination period for Fellows is open each year from February 1 to March 31. For additional information about the Fellows program, as well as instructions for making nominations, visit the web page www.ams.org/profession/ams-fellows.

Members of the 2018 Class of Fellows of the AMS who attended the reception at the JMM in San Diego.

Mohammed Abouzaid, Columbia University
For contributions to symplectic geometry, homological mirror symmetry, and service to the profession.

Daniel D. Anderson, University of Iowa
For contributions to commutative algebra and its exposition, service to the mathematical community, and mentoring.

Federico Ardila, San Francisco State University
For contributions to combinatorics and service to the profession.

Hélène Barcelo, Mathematical Sciences Research Institute
For contributions to combinatorics and service to the profession.

Estelle Basor, American Institute of Mathematics
For contributions to analysis and for service to the mathematical community.

Kai Behrend, University of British Columbia
For contributions to algebraic geometry.

Michele Benzi, Emory University
For contributions in numerical linear algebra, exposition, and service to the profession.

Don Blasius, University of California, Los Angeles
For contributions to arithmetic algebraic geometry and representation theory.

Lev Borisov, Rutgers The State University of New Jersey New Brunswick
For contributions to algebraic geometry and mirror symmetry.

Aldridge Bousfield, University of Illinois at Chicago
For contributions to homotopy theory and for exposition.

Steven Bradlow, University of Illinois, Urbana-Champaign
For contributions to geometric analysis and moduli theory, and service to the mathematical community.

Emmanuel Candès, Stanford University
For contributions to the field of compressed sensing, and to multiscale analysis, statistics, and matrix completion.

Izzet Coskun, University of Illinois at Chicago
For contributions to algebraic geometry, and for mentoring.

James Davis, Indiana University, Bloomington
For contributions to geometric topology especially through surgery theory, and for exposition.

Peter Ebenfelt, University of California, San Diego
For contributions to CR geometry, complex geometry, and several complex variables, and for mentoring and professional service.
Joan Ferrini-Mundy, National Science Foundation
For contributions to mathematics education, and to the development of educational policy and initiatives.

Antonella Grassi, University of Pennsylvania
For contributions to algebraic geometry and mathematical physics, and for leadership in mentoring programs.

Jesper Grodal, University of Copenhagen
For contributions to algebraic topology, representation theory and their interactions, and for service to the profession.

Cristian E. Gutiérrez, Temple University
For contributions to proof theory and constructive foundations of mathematics.

Alexandru Ionescu, Princeton University
For contributions to harmonic analysis on symmetric spaces, discrete analogs of singular Radon transforms, and the mathematics of general relativity.

Thomas Kailath, Stanford University
For contributions to information theory and related areas, and for applications.

Sergiu Klainerman, Princeton University
For contributions to partial differential equations, to the mathematical theory of general relativity, and mentoring.

Nicholas J. Kuhn, University of Virginia
For contributions to homotopy theory, group cohomology and representation theory.

Igor Kukavica, University of Southern California
For contributions to nonlinear partial differential equations, mentoring, and service to the profession.

Max Lieblich, University of Washington
For contributions to algebraic geometry and for service to the mathematical community.

Ivan Losev, Northeastern University
For contributions to geometric representation theory, noncommutative algebra, and the theory of categorification.

Guozhen Lu, University of Connecticut, Storrs
For contributions to harmonic analysis and partial differential equations, and for service to the mathematical community.
FROM THE AMS SECRETARY

John Pardon, Princeton University
For contributions to knot distortion, the Hilbert-Smith conjecture, and pseudo-holomorphic curves.

Peter Polacik, University of Minnesota-Twin Cities
For contributions to analysis of partial differential equations and infinite-dimensional dynamical systems.

Mason A. Porter, University of California, Los Angeles
For contributions to nonlinear and complex systems, and to the emerging field of network science.

Rachel Justine Pries, Colorado State University
For contributions to arithmetic geometry, and for service to the mathematical community.

Andrew Putman, University of Notre Dame
For contributions to combinatorial and geometric group theory and topology.

Eric M. Rains, California Institute of Technology
For contributions to quantum information theory and coding theory, the theory of random matrices, the study of special functions, non-commutative geometry and number theory.

Kavita Ramanan, Brown University
For contributions to the theory and applications of stochastic processes.

Peter Sarnak, Princeton University and The Institute for Advanced Study
For contributions to number theory and analysis.

Larry L. Schumaker, Vanderbilt University
For contributions to spline theory, approximation theory, and numerical analysis, and for service to the profession.

Albert Schwarz, University of California, Davis
For contributions to mathematical physics.

Timo Seppäläinen, University of Wisconsin, Madison
For contributions to probability.

Roger R. Smith, Texas A&M University
For contributions to operator theory and operator algebras.

Kannan Soundararajan, Stanford University
For contributions to analytic number theory.

Hema Srinivasan, University of Missouri-Columbia
For contributions to algebra and algebraic geometry, mentoring, and service to the mathematical community.

Ed Swartz, Cornell University
For contributions to topological and geometric combinatorics.

Simon Tavaré, University of Cambridge
For contributions to population genetics and computational biology, and for service to the profession.

Joseph M. Teran, University of California, Los Angeles
For contributions to numerical methods for partial differential equations in classical physics with modern applications.

Richard P. Thomas, Imperial College
For contributions to algebraic geometry.

Marie-France Vigneras, Université Paris-Diderot
For contributions to the Langlands program and the theory of automorphic forms.

Luc Vinet, Université de Montréal
For contributions to mathematical physics and special functions, and for service to the mathematical community.

Weiqiang Wang, University of Virginia
For contributions to Lie theory and representation theory and service to the mathematical community.

Richard M. Weiss, Tufts University
For contributions to group theory and geometry, and for exposition.

Sarah Witherspoon, Texas A&M University
For contributions to representation theory and cohomology of Hopf algebras, quantum groups, and related objects, and for service to the profession and mentoring.

Milen Yakimov, Louisiana State University, Baton Rouge
For contributions to noncommutative algebra and service to the mathematical community.

Catherine Huafei Yan, Texas A&M University
For contributions to combinatorics and discrete geometry.

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See more at: [www.ams.org/profession/ams-fellows/new-fellows](http://www.ams.org/profession/ams-fellows/new-fellows)