

# Mathematics People

## Guth Awarded Mirzakhani Prize



Larry Guth

**Larry Guth** of the Massachusetts Institute of Technology has been awarded the newly named Maryam Mirzakhani Prize in Mathematics “for developing surprising, original, and deep connections between geometry, analysis, topology, and combinatorics, which have led to the solution of, or major advances on, many outstanding problems in these fields.” The citation reads:

“Guth has made spectacular contributions to many areas of mathematics, including systolic geometry, analysis, and combinatorics. He has developed surprising, original, and deep connections between geometry, analysis, topology, and combinatorics, leading to major advances or solutions for many outstanding problems in these fields. His accomplishments include the introduction of a new cell decomposition of Euclidean space, writing the authoritative book on the polynomial method, and creating a new induction on scales algorithm called the Bourgain-Guth method.”

Guth received his PhD from MIT in 2005 under the supervision of Tomasz Mrowka. He held a postdoctoral position (2005–2006) and an assistant professorship (2006–2008) at Stanford University. He was assistant professor (2008–2011) at the University of Toronto, a member of the Institute for Advanced Study (2010–2011), and professor at the Courant Institute of New York University before joining MIT in 2012. His honors and awards include an NSF Postdoctoral Fellowship (2006–2008), a Sloan Fellowship (2010), the Salem Prize (2013), the MIT School of Science Prize for Excellence in Graduate Teaching (2015), a Clay Research Prize (with Nets Katz, 2015), the New Horizons in Mathematics Prize (2015), and the AMS Bôcher Prize (2020). He was named a Simons Investigator in 2014 and is a Fellow of the AMS and of the American Academy of Arts and Sciences. He is the author of the book *Polynomial Methods in Combinatorics*.

The prize, awarded by the National Academy of Sciences and formerly called the NAS Award in Mathematics, was

renamed to honor the late Maryam Mirzakhani. It honors exceptional contributions to the mathematical sciences by a midcareer mathematician. It carries a cash award of US\$20,000.

—From an NAS announcement

## 2020 AWM Prizes Awarded

The Association for Women in Mathematics (AWM) presented several awards at the Joint Mathematics Meetings held in Denver, Colorado, in January 2020.



Erika Camacho

**Erika Camacho** of Arizona State University was honored with the Louise Hay Award for Contribution to Mathematics Education “in recognition of her leadership and contributions as a mathematical scholar and educator.” The prize citation reads: “Dr. Camacho has a passion for mentoring, especially the mentoring of underrepresented students. Her mentoring begins with her excitement for mathematics based in her research in

mathematical physiology. This research involves developing mathematical models that describe the interactions of photoreceptors in the retina. Dr. Camacho brings graduate and undergraduate students into her research and also finds opportunities for students with other researchers.

“She created the Applied Mathematical Sciences Summer Institute and has codirected both this institute (2004–2007) and the Mathematical and Theoretical Biology Institute (2011–2013). Through these institutes and her other mentoring programs she has impacted over 600 undergraduates, including supervising the research of 89 of these students, with 30 receiving conference award recognitions.

“Through her work Dr. Camacho changes perceptions. Her own story is an existence proof that someone from an underprivileged and Latina background can earn a PhD in mathematics and be a successful mathematician. In over sixty-five plenary and panel presentations, she uses her story to inspire students to persevere and succeed in mathematics. Beyond presenting, Dr. Camacho meets

with attendees individually afterwards to learn about their stories and give them advice based on their own interests and passions. By inspiring more women and members of underrepresented groups to continue in their mathematical pursuits, she enlarges the scope of what we see as successful mathematicians." Camacho received her PhD in 2003 from Cornell University under the direction of Richard H. Rand. Among her many recognitions are the SACNAS Distinguished Undergraduate Institution Mentor Award (2012), the Outstanding Latino/a Faculty in Higher Education: Research/Teaching in Higher Education (Research Institutions) (2018), the Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring (2014), and the American Association for the Advancement of Science Mentor Award (2019). She tells the *Notices*: "I grew up in East Los Angeles, the fourth of five children, where I was taught by Jaime Escalante (of *Stand and Deliver* fame). I enjoy spending time with my husband and three children."



Margaret Robinson

**Margaret Robinson** of Mount Holyoke College has been named the recipient of the 2020 M. Gweneth Humphreys Award for Mentorship of Undergraduate Women in Mathematics. According to the prize citation, "Margaret Robinson has been a mainstay of caring and thoughtful teaching and mentoring for many years at Mount Holyoke College, an institution whose mission is to educate women. Her focus is not

just on the top students but on making a meaningful (and joyful) mathematical intervention for all the generations of learners that have crossed her path. As one student put it, 'she saw me in a way that no mathematics teacher had before.' Her impactful involvement in the Carleton Summer Math Program and the resounding response from a range of former mentees speak to her effectiveness and her ability to forge personal connections." Robinson received her PhD in 1986 from Johns Hopkins University under the supervision of Jun-Ichi Igusa. Her honors include the Mount Holyoke Faculty Teaching Award (2010), the NES/MAA Award for Distinguished Teaching of Mathematics (2012), and the MAA Haimo Award for Distinguished Teaching of Mathematics (2013). Robinson tells the *Notices*: "My favorite quote (that I tell my students and children) comes from *The Once and Future King* by T. H. White: "'The best thing for being sad,'" replied Merlin, beginning to puff and blow, "is to learn something. That's the only thing that never fails. ... Learning is the only thing for you. Look what a lot of things there are to learn.'"

—From AWM announcements

## 2020 MAA Awards

The Mathematical Association of America (MAA) awarded several prizes at the Joint Mathematics Meetings in Denver, Colorado, in January 2020.



Vladimir Pozdnyakov



J. Michael Steele

**Vladimir Pozdnyakov** of the University of Connecticut and **J. Michael Steele** of the University of Pennsylvania were awarded the Chauvenet Prize for their article "Buses, Bullies, and Bijections," *Mathematics Magazine* 89 (2016), no. 3. The prize citation reads in part: "Pozdnyakov and Steele show the remarkable utility of bijections by considering seating assignments on a bus. Everyone has a designated seat, but all except the last passenger take seats at random. Then the final passenger—a bit of a bully—boards, not only wanting his own seat, but demanding that each subsequently displaced person finds his correct seat as well. What is the probability that the first person to board will need to change seats?"

"The authors obtain the answer via a brute-force combinatorial argument, but then find the solution in an easier, more revealing way by making elegant use of permutation cycles. The authors then use bijections to derive even more surprising and beautiful results including the mean and variance of the number of cycles in a random permutation. This well-crafted paper, which introduces the reader to the theory of permutation patterns, flows naturally and easily, providing a journey that is interesting and insightful. This bus is available for all—professor and student alike—delighting the rider with the simple power of bijections."

Pozdnyakov received his PhD from the University of Pennsylvania in 2001 under the supervision of J. Michael Steele. He is currently professor of statistics and director of the Applied Financial Mathematics graduate program at Connecticut. He tells the *Notices*: "I'm an enthusiastic soccer player—an old one." J. Michael Steele received his PhD from Stanford University in 1975 under Kai Lai Chung. He is currently professor emeritus at the University of Pennsylvania. Steele and Pozdnyakov were jointly awarded the MAA's Carl Allendorfer Award in 2017. Steele tells the *Notices*: "I'm now retired from teaching, but I am still involved in writing. I am also passionate about languages and language learning. French is in focus for the moment, and most recently it absorbs four or more hours of my day."

**Aubrey D. N. J. de Grey** of SENS Research Foundation and AgeX Therapeutics has been awarded the 2020 David P.

Robbins Prize for his article “The Chromatic Number of the Plane Is at Least 5,” *Geombinatorics* 28 (2018), no. 1, which addresses the question, What is the minimum number of colors needed to color the points of a Euclidean plane so that no two points at distance exactly 1 have the same color? This is “often known as the Hadwiger–Nelson problem; Hadwiger, several years earlier and for other reasons, had been the first to discuss the simplest coloring of the plane that demonstrates the upper bound.” De Grey received his PhD in biology from the University of Cambridge. His research interests encompass the characterization of all the types of self-inflicted cellular and molecular damage that constitute mammalian aging and the design of interventions to repair and/or obviate that damage. He is particularly interested in combinatorics, especially graph theory.



Tim Chartier

**Tim Chartier** of Davidson College was awarded the 2020 Euler Book Prize for *Math Bytes* (Princeton University Press, 2014). The prize citation reads: “*Math Bytes* gives readers a taste of the mathematics and computing applications that underlie many aspects of everyday life. With a wide array of topics—including fractals, fonts, tweets, basketball, Google, digital images, movies, and more—the

book exposes readers to a satisfying assortment of mathematical ideas, many of which will be new to nonmathematical audiences. That said, even more mathematically inclined readers should find plenty of interesting material, including new ways of thinking about and applying familiar mathematical concepts. Chartier’s exposition is clear, accessible, and fun. Regular challenge problems encourage readers to explore for themselves the ideas introduced in the text. All in all, *Math Bytes* is an engaging and stimulating read that is sure to broaden horizons and increase appreciation for the ubiquitous and invaluable role of computational mathematics in modern society.” Chartier received his PhD from the University of Colorado, Boulder. He specializes in numerical linear algebra, with his recent work focusing on data science. He has been a consultant on data analytics for ESPN, the *New York Times*, the US Olympic Committee, and teams in the NBA, NFL, and NASCAR. He was the first chair of the Advisory Council for the National Museum of Mathematics. In K–12 education, he has worked with Google and Pixar on their educational initiatives. He was the recipient of the MAA Daniel Solow Author’s Award in 2019. Chartier tells the *Notices*: “My wife and I have professional training in mime, which includes master classes with Marcel Marceau. In fact, we paid for our wedding just over twenty-five years ago with a performance tour along the East Coast of the United States. We also have developed a mime show that introduces mathematical ideas and have performed it

across the United States, as well as in Panama, South Korea, Japan, and Holland.”

The 2020 Deborah and Franklin Tepper Haimo Awards for Distinguished College or University Teaching of Mathematics were awarded to **Federico Ardila** of San Francisco State University, **Mark Tomforde** of the University of Houston, and **Suzanne L. Weekes** of Worcester Polytechnic Institute.

Ardila was recognized for inspiring students “from all walks of life to recognize and realize their potential in mathematics.” He is a “leader in the movement to broaden and deepen diversity in research mathematics.” He is director of the Mathematical Sciences Research Institute–Undergraduate Program (MSRI-UP), the largest Research Experiences for Undergraduates (REU) program in the United States and the one that serves the largest number of students from underrepresented groups. He conceived the SFSU-Colombia Combinatorics Initiative, through which he developed seven new courses to promote international scholarly collaboration among undergraduates and master’s students, including many from underrepresented groups, at SFSU and the Universidad de Los Andes. He has published a wide range of expository articles in English, Spanish, and German. His YouTube channel contains more than 240 hours of freely available advanced mathematics, and his viewers come from over 150 countries. His article “Todos Cuentan: Cultivating Diversity in Combinatorics” was published in the *Notices* in November 2016. Ardila received his PhD from the Massachusetts Institute of Technology in 2003 under the direction of Richard P. Stanley. He is a Fellow of the AMS and of the Simons Foundation and the recipient of an NSF CAREER Award and of the Premio Nacional de Ciencias and the Premio Nacional de Matemáticas in Colombia. His research is in combinatorics and its connections to geometry, algebra, topology, and applications. He enjoys reading, *fútbol*, playing records, or playing marimba de chonta.



Mark Tomforde

Tomforde “has had a deep and positive impact at all levels of mathematics education.” According to the prize citation, he has “recruited, retained, and mentored members of underrepresented groups spectacularly” at all levels, including by enrolling over seventy University of Houston students in the Math Alliance, the goal of which is to ensure that every underrepresented or underserved American student with talent and ambition has the opportunity to earn a doctoral degree in a mathematical science. He is a cofounder and coorganizer of Gulf States Math Alliance (GSMath), one of seven regional alliances, composed of members of the Math Alliance in Texas, Louisiana, and Mississippi. He

facilitates and promotes associated opportunities in the Gulf Coast region. He developed the Cougars and Houston Area Math Program (CHAMP), working in collaboration with neighborhood high schools and middle schools to provide a wide variety of mathematical activities. CHAMP received the AMS Award for Mathematics Programs That Make a Difference in 2018, as well as a Phi Beta Kappa award for broadening participation in STEM. He developed a multifaceted collaboration between the University of Houston and Texas Southern University, recruited faculty members from Houston as Math Alliance members, has served as a Project NExT consultant, and maintains multiple websites with a wide variety of materials for faculty and students. Tomforde received his PhD from Dartmouth College under the supervision of Dana P. Williams in 2002, held a postdoctoral fellowship at the University of Iowa, and has also taught at the College of William and Mary. He was a Project NExT Fellow in 2002. He tells the *Notices*: "I am a cinephile, and in my spare time I enjoy watching a wide variety of movies from different genres."

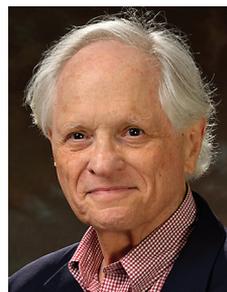


Suzanne L. Weekes

Weekes "has had an extraordinary impact on the mathematics community via superlative teaching, advising, and mentoring of students and faculty at Worcester Polytechnic Institute (WPI), regionally, and nationally." She designed and organized the Applied and Industrial Mathematics Institute for Secondary Teaching at WPI, which offers workshops for high school mathematics teachers.

As a member of the Math Advisory Group of Transforming Postsecondary Education in Mathematics (TPSE Math), she coorganized and hosted the New England Regional Meeting on Upper-Division Pathways at WPI, now a model for such workshops in other regions. She directed the Center for Industrial Mathematics and Statistics and also directed its WPI Research Experiences for Undergraduates (REU) Program in Industrial Mathematics and Statistics. She is a cofounder of the Mathematical Sciences Research Institute Undergraduate Program (MS-RI-UP) and of the MAA's Preparation for Industrial Careers in Mathematical Sciences (PIC Math) program, which has increased awareness of nonacademic career options and preparing students for industrial careers. Weekes grew up in the Republic of Trinidad and Tobago, received her BS in mathematics from Indiana University, and earned her PhD in 1995 from the University of Michigan. She was awarded the M. Gweneth Humphries Award of the Association for Women in Mathematics (AWM) in 2019. Her research work is in numerical methods for differential equations, including applications to spatiotemporal composites/dynamic materials and cancer growth. She is involved in several initiatives connecting the academic mathematics

community to mathematics and statistics work done in business, industry, and government, and with broadening the participation and success of students in mathematical sciences.



Gerald J. Porter

Gerald J. Porter of the University of Pennsylvania received the 2020 Gung and Hu Award for Distinguished Service to Mathematics for his service in "teaching, teacher education, research, MAA administration, and, most importantly of all, in leading the profession, especially the MAA, to value racial and gender diversity in all activities." The prize citation reads in part: "Jerry Porter

has spent decades in service to the MAA. His service in terms of years and variety at the national level is extensive but his service and care for the organization goes far beyond the lengthy list of committees on which he served and positions he has held. His is the service that, while not appearing on any list, has made the difference in the MAA and our profession. He pursued this service while providing strong support to Executive Directors, learning and sharing his great expertise, and being a change agent in the areas in which he was involved. He has been a mentor to many young mathematicians and has nominated them for awards and committees, welcomed them at both section and national meetings, and shown by example the importance of inclusivity. For many years he was the only male member of the Joint Committee on Women; as always, Jerry strengthened MAA's role on this committee. Jerry welcomed the women and minorities who attend our meetings and encouraged them to take an active role in the Association." With Jim White, he directed the Interactive Mathematics Text Project, which funded the creation of computer laboratories in six colleges to encourage the creation of computer-based algebra materials in teaching. Porter received his PhD from Cornell University in 1963 under the direction of William Browder. He is a life member of the AMS and the MAA. Porter has been retired from teaching since 2006. He enjoys traveling and has visited about seventy-five countries and all fifty states in the United States. He is an avid photographer and has had six photo shows at Penn. Since his retirement he has audited courses and seminars at Penn, including courses in ethnomusicology, art, and literature. In June, he and his wife, Judy, will celebrate their sixtieth wedding anniversary. Together they funded the public lecture given each year at the Joint Mathematics Meetings with the goal of increasing public awareness and appreciation of mathematics.

—From MAA announcements

## Bombieri Awarded Crafoord Prize in Mathematics



Enrico Bombieri

**Enrico Bombieri** of the Institute for Advanced Study has been awarded the 2020 Crafoord Prize in Mathematics “for outstanding and influential contributions in all the major areas of mathematics, particularly number theory, analysis and algebraic geometry.” The prize is awarded by the Royal Swedish Academy of Sciences and the Crafoord Founda-

tion; the disciplines rotate every year. The prize carries a cash award of 6 million Swedish krona (approximately US\$618,000).

The prize citation reads in part: “Enrico Bombieri belongs to an increasingly rare group of mathematicians who can solve problems in almost all areas of mathematics. However, his greatest passion has always been number theory, which is the study of integers. He was just sixteen years old when he published his first work in number theory and, among other things, he is a leading expert on the Riemann hypothesis on the distribution of prime numbers.

“Enrico Bombieri has made significant contributions in algebra, advanced geometry, and complex analysis. He has also contributed to solving Bernstein’s problem. This is a variation of Plateau’s problem, about how to mathematically describe the shape of the soap film that forms when a wire frame is dipped into a soap solution.”

Bombieri was born in 1940 in Milan, Italy, and received his PhD in 1963 from the Università degli Studi di Milano. He has been professor at the University of Pisa (1966–1974) and Scuola Normale Superiore, Pisa (1974–1977). He joined the faculty at the IAS in 1977, where he is now professor emeritus. He was awarded the Fields Medal in 1974. His honors also include the Feltrinelli Prize (1976), the Balzan Prize (1980), the Cavaliere di Gran Croce al Merito della Repubblica, Italy (2002), the Premio Internazionale Pitagora (2006), the AMS Joseph Doob Prize (2008), the King Faisal International Prize (2010), and the Lifetime Achievement Award of the Italian Scientists and Scholars of North America Foundation (2015). He is a member of the American Academy of Arts and Sciences, the National Academy of Sciences, and the Royal Swedish Academy of Arts and Sciences, among many others.

—From a Royal Swedish Academy announcement

## Legatiuk Awarded Clifford Prize



Dmitrii Legatiuk

**Dmitrii Legatiuk** of Bauhaus-Universität Weimar has been selected as the recipient of the 2020 W. K. Clifford Prize for his “significant contributions in Clifford analysis, including interpolation of monogenic functions, quaternionic operator calculus, and construction of advanced numerical methods.” Legatiuk’s “interest in Clifford analysis, particularly its potential to solve difficult applied

problems, has led him to such advances as using quaternionic operator calculus to construct representation formulas for solutions of boundary value problems in advanced elasticity theories, interpolation of monogenic functions by various tools, and developing a finite element exterior calculus based on script geometry. His interests span mathematics, computer science, and engineering, reflecting the broad applicability of Clifford algebras and echoing the wide-ranging interests of W. K. Clifford himself.” Legatiuk earned his PhD from Bauhaus-Universität Weimar, where his doctoral research earned him the 2015 University Prize for Young Scientists.

The W. K. Clifford Prize is an international scientific prize intended to encourage young researchers to compete for excellence in research in theoretical and applied Clifford algebras and their analysis and geometry. It is awarded every three years at the International Conference on Clifford Algebras and Their Applications in Mathematical Physics, held this year in Hefei, China.

—G. Stacey Staples  
Southern Illinois University

## Chuzhoy Awarded NAS Held Prize

**Julia Chuzhoy** of Toyota Technological Institute, Chicago, has been named the recipient of the 2020 Michael and Sheila Held Prize of the National Academy of Sciences. According to the prize citation, Chuzhoy “has conducted influential work in the fields of graph algorithms, hardness of approximation, and structural graph theory, which have introduced powerful new techniques and resolved deep open questions.

“Chuzhoy and her coauthors achieved remarkable results in designing algorithms for graph routing problems, which are among the most studied and important problems

in optimization. Insights from this work led to further significant impacts on structural graph theory, including an exponential strengthening of the parameters of the Excluded Grid theorem.

“Chuzhoy’s work on graph routing problems settled central open questions in graph optimization and introduced powerful new graph decomposition and routing techniques, opening up the potential for future applications in algorithm design and structural graph theory. The improved parameters for the Excluded Grid theorem led to faster algorithms for a host of graph optimization problems, and stronger bounds for a number of graph theoretic results.”

The prize carries a cash award of US\$100,000. It honors outstanding, innovative, creative, and influential research in the areas of combinatorial and discrete optimization, or related parts of computer science, such as the design and analysis of algorithms and complexity theory.

—From an NAS announcement

## Borodin and Viazovska Awarded Fermat Prize

**Alexei Borodin** of the Massachusetts Institute of Technology and **Maryna Viazovska** of the École Polytechnique Fédérale de Lausanne have been awarded the 2019 Fermat Prize for research in mathematics. Borodin was honored for the invention of integrable probability theory, a new area at the interface of representation theory, combinatorics, and statistical physics. Viazovska was honored for her original solution of the famous sphere packing problem in dimensions 8 and 24. The prize rewards mathematicians under forty-five years old whose research works are in number theory, analytic geometry, probability, and research related to the variational principles.

—Fermat Prize announcement

## Haykazyan Awarded Emil Artin Junior Prize

**Levon Haykazyan** of Oxford Asset Management has been awarded the 2020 Emil Artin Junior Prize in Mathematics. Haykazyan was chosen for his paper “Spaces of Types in Positive Model Theory,” *Journal of Symbolic Logic* 84 (2019).

Established in 2001, the Emil Artin Junior Prize in Mathematics carries a cash award of US\$1,000 and is presented usually every year to a student or former student of an Armenian educational institution under the age of thirty-five for outstanding contributions to algebra, geometry, topology, and number theory—the fields in which Emil Artin

made major contributions. The prize committee consisted of A. Basmajian, Y. Movsisyan, and V. Pambuccian.

—Victor Pambuccian

New College, Arizona State University

## Borodin and Petrov Awarded 2020 Bernoulli Prize

**Alexei Borodin** of the Massachusetts Institute of Technology and **Leonid Petrov** of the University of Virginia have been awarded the 2020 Bernoulli Prize for an Outstanding Survey Article in Probability or Statistics. They were honored for their article “Integrable Probability: From Representation Theory to Macdonald Processes,” *Probability Surveys* 11 (2014). The prize recognizes authors of an influential survey publication in the areas of probability and statistics.

—Bernoulli Society announcement

## National Academy of Engineering Elections

The National Academy of Engineering (NAE) has elected eighty-seven new members and eighteen international members for 2020. Below are the new members whose work involves the mathematical sciences.

- **Graham V. Candler**, University of Minnesota, Minneapolis, for development and validation of computational models for high-fidelity simulation of supersonic and hypersonic interactions.
- **Kenneth C. Hall**, Duke University, for development of unsteady aerodynamic and aeromechanics theories and analysis for internal and external aerodynamic flows.
- **Mrdjan Jankovic**, Ford Motor Company, for contributions to nonlinear control theory and automotive technology.
- **Sallie Ann Keller**, University of Virginia, Charlottesville, for development and application of engineering and statistical techniques in support of national security and industry.
- **Ioannis G. Kevrekidis**, Johns Hopkins University, for research on multiscale mathematical modeling and scientific computation for complex, nonlinear reaction, and transport processes.
- **Tamara G. Kolda**, Sandia National Laboratories, for contributions to the design of scientific software, including tensor decompositions and multilinear algebra.

- **Muriel Médard**, Massachusetts Institute of Technology, for contributions to the theory and practice of network coding.
- **Jorge Nocedal**, Northwestern University, for contributions to the theory, design, and implementation of optimization algorithms and machine learning software.
- **Alexander A. Shapiro**, Georgia Institute of Technology, for contributions to the theory, computation, and application of stochastic programming.
- **Peter W. Shor**, Massachusetts Institute of Technology, for pioneering contributions to quantum computation.
- **Charles W. Wampler II**, General Motors Corporation, for leadership in robotic systems in manufacturing, mathematical methods for robot motion and machine design, and traction battery modeling.
- Elected as an international member was **Wolfgang Marquardt**, Forschungszentrum Jülich GmbH, Germany, for contributions to process systems engineering and large-scale computations and for national leadership in science/technology policy and management.

—From an NAE announcement

- **Ila Varma**, University of Toronto
- **Cynthia Vinzant**, North Carolina State University
- **Alexander Wright**, University of Michigan
- **Yao Yao**, Georgia Institute of Technology
- **Zhizhen Zhao**, University of Illinois, Urbana-Champaign

—From a Sloan Foundation announcement

**Credits**

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## 2020 Sloan Fellows

The Alfred P. Sloan Foundation has announced the names of 126 recipients of the 2020 Sloan Research Fellowships. Each year the foundation awards fellowships in the fields of mathematics, chemistry, computational and evolutionary molecular biology, computer science, economics, neuroscience, physics, and ocean sciences. Grants of US\$75,000 for a two-year period are administered by each Fellow’s institution. Once chosen, Fellows are free to pursue whatever lines of inquiry most interest them, and they are permitted to employ fellowship funds in a wide variety of ways to further their research aims.

Following are the names and institutions of the 2020 awardees in the mathematical sciences.

- **Jeff Calder**, University of Minnesota
- **Roger Casals**, University of California, Davis
- **Otis Chodosh**, Stanford University
- **Damek Davis**, Cornell University
- **Tarek M. Elgindi**, University of California, San Diego
- **Peter Hintz**, Massachusetts Institute of Technology
- **Robert Hough**, Stony Brook University
- **Hao Huang**, Emory University
- **Sebastian Hurtado-Salazar**, University of Chicago
- **Aleksandr Logunov**, Princeton University
- **Linquan Ma**, Purdue University
- **Sung-Jin Oh**, University of California, Berkeley
- **Weijie Su**, University of Pennsylvania
- **Omer Tamuz**, California Institute of Technology
- **Samuel Taylor**, Temple University

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