

Mathematics Opportunities

AMS-Simons Travel Grants Program

Starting February 1, 2016, the AMS will begin accepting applications for the AMS-Simons Travel Grants program, with support from the Simons Foundation. Each grant provides an early-career mathematician with US\$2,000 per year for two years to reimburse travel expenses related to research. Sixty new awards will be made in 2016. Applications will be accepted through www.mathprograms.org. The deadline is **March 31, 2016**. Applicants must be located in the United States or be US citizens to apply. For complete details of eligibility and application instructions, visit: www.ams.org/programs/travel-grants/AMS-SimonsTG or contact Steven Ferrucci, email: ams-simons@ams.org, telephone: 800-321-4267, ext. 4113.

—AMS announcement

Simons Foundation Collaboration Grants for Mathematicians

The Simons Foundation's Mathematics and Physical Sciences division invites applications for Collaboration Grants for Mathematicians. The grants provide funding of US\$7,000 per year for five years. The application deadline is **January 28, 2016**. For more information see <https://www.simonsfoundation.org/funding/funding-opportunities/mathematics-physical-sciences/collaboration-grants-for-mathematicians/>.

—From a Simons Foundation announcement

The Paul Bruckman-Fibonacci Prize

Through a donation from George Hisert, a retired lawyer from California, the Fibonacci Association has endowed two prizes of US\$1,000 each for mathematicians early in their careers: one for a paper in the *Fibonacci Quarterly* and one for a paper presented at the International

Fibonacci Conference. The prize is named in honor of late Paul S. Bruckman, a long-time contributor to the *Fibonacci Quarterly*. For more details see www.fq.math.ca/Announcements/bruckmanprize.pdf.

—From a Fibonacci Association announcement

*NSF Major Research Instrumentation Program

The National Science Foundation (NSF) Major Research Instrumentation (MRI) program serves to increase access to shared scientific and engineering instruments for research and research training. Proposals may be submitted only by institutions of higher education or nonprofit organizations. The deadline is **January 13, 2016**. For more information see www.nsf.gov/funding/pgm_summ.jsp?pgms_id=5260.

—From an NSF announcement

EDGE for Women

The EDGE Program (Enhancing Diversity in Graduate Education) aims to strengthen the ability of women students to successfully complete graduate programs in the mathematical sciences. EDGE sponsors a summer session and promotes networking and community. A follow-up mentoring program and support network is established with the participants' graduate programs. Applicants should be women entering PhD programs in the mathematical sciences. The EDGE 2016 Summer Session will be held at Purdue University from June 6 through July 2. A stipend plus travel, room, and board will be awarded to participants. The deadline to apply is **February 29, 2016**. For further information, visit www.edgeforwomen.org/.

—From an EDGE announcement

*The most up-to-date listing of NSF funding opportunities from the Division of Mathematical Sciences can be found online at: www.nsf.gov/dms and for the Directorate of Education and Human Resources at www.nsf.gov/dir/index.jsp?org=ehr. To receive periodic updates, subscribe to the DMSNEWS listserv by following the directions at www.nsf.gov/mps/dms/about.jsp.

National Academies Research Associateship Programs

The National Academies 2016 Postdoctoral and Senior Research Associateship Programs provide opportunities for PhD, ScD, or MD scientists and engineers to perform research at more than 100 research laboratories throughout the United States and overseas. Most of the laboratories are open to both US and non-US nationals. Full-time associateships will be awarded for research in the fields of mathematics, chemistry, earth and atmospheric sciences, engineering, applied sciences, life sciences, space sciences, and physics. **Deadlines are on the first of February, May, August, and November, 2016.** For further information and application materials, see the National Academies website at sites.nationalacademies.org/PGA/RAP/PGA_050491.

—From an NRC announcement

PIMS Education Prize

The Pacific Institute for the Mathematical Sciences (PIMS) awards an annual prize to a member of the PIMS community who has enhanced public awareness and appreciation of mathematics communication among groups and organizations concerned with mathematical training at all levels. The deadline for nominations is **March 15, 2016**. For more information see www.pims.math.ca/pims-glance/prizes-awards.

—From a PIMS announcement

CAIMS/PIMS Early Career Award

The Canadian Applied and Industrial Mathematics Society (CAIMS) and the Pacific Institute for Mathematical Sciences (PIMS) sponsor the Early Career Award in Applied Mathematics to recognize exceptional research in any branch of applied mathematics, interpreted broadly. The nominee's research should have been conducted primarily in Canada or in affiliation with a Canadian university. The prize is to be awarded every year to a researcher fewer than ten years past the date of PhD at the time of nomination. The award comes with a cash prize of CAD\$1,000 and an invitation to deliver a plenary lecture at the CAIMS annual meeting. The deadline for nominations is **January 31, 2016**. For more information see www.pims.math.ca/pims-glance/prizes-awards.

—From a PIMS announcement

News from IMA

The Institute for Mathematics and its Applications (IMA) is hosting a hot topics workshop **May 16–19, 2016**, called “Resource Trade-offs: Computation, Communication, and Information.” Large-scale machine learning and data analysis is characterized by a significant consumption of computational and statistical resources, which are often influenced by various constraints such as maintaining data privacy, exhibiting robustness to outliers and noise, and tackling partial access to the data. The workshop’s goal is to bring together experts with diverse backgrounds whose work pertains to these questions and to exchange ideas while identifying new research opportunities. See www.ima.umn.edu/2015-2016/SW5.16-19.16/.

Also IMA will hold a special workshop on “Dynamics and Differential Equations,” dedicated to the memory of Professor George Sell, from **June 22–25, 2016**. It encompasses several areas of his research, including ordinary differential equations, partial differential equations, infinite-dimensional dynamical systems, and dynamics of nonautonomous evolutionary equations. See www.ima.umn.edu/2015-2016/SW6.22-25.16/.

—From an IMA announcement

Invitation to Summer Research at MSRI



Photo Credit: David Eisenbud

Come spend time at MSRI in the summer! We have room for a modest number of visitors to research singly or in small groups. We can provide offices, library facilities, and bus passes, and especially encourage groups of two to six to apply together. To make visits productive, we require at least a two-week commitment. Possible dates are from June 13 to July 31, 2016. Applications are due by **February 1, 2016** and should contain a statement (at most a page) of the proposed research and a two-page CV similar to the NSF biographical sketch (www.nsf.gov/pubs/2003/nsf03041/2.htm) with academic history and lists of up to five relevant publications and up to five further publications. Email p308@msri.org to submit an application.

—From an MSRI announcement