Mathematics Opportunities

Math for America Early Career Fellowship

Math for America (MfA) is a nonprofit organization with a mission to improve mathematics education in U.S. public secondary schools by recruiting, training, and retaining outstanding mathematics teachers and leaders. MfA offers fellowships for new and experienced teachers and school leaders. The Math for America Early Career Fellowship is awarded to public secondary school mathematics teachers early in their careers. MfA Early Career Fellows exhibit outstanding potential, a dedication to professional development, and an interest in collaboration with the Math for America community. The program provides professional support and growth opportunities for new teachers. The MfA Early Career Fellowship requires a commitment of four years. Applications are being accepted for the Early Career Fellowship in New York City. The deadline is **May 4, 2012**. For more information and to apply, see `http://www.mathforamerica.org/web/guest/apply`.

—From an MfA announcement

NSF Postdoctoral Research Fellowships

The National Science Foundation (NSF) awards Mathematical Sciences Postdoctoral Research Fellowships (MSPRF) for appropriate research in areas of the mathematical sciences, including applications to other disciplines. Awardees are permitted to choose research environments that will have maximal impact on their future scientific development. Awards are made in the form of either Research Fellowships or Research Instructorships. The Research Fellowship option provides full-time support for any eighteen academic-year months in a three-year period, in intervals not shorter than three consecutive months. The Research Instructorship option provides either two academic years of full-time support or one academic year of full-time and two academic years of half-time support. Under both options, the award includes six summer months; however, no more than two summer months of support may be received in any calendar year. Under both options, the stipend support for twenty-four months (eighteen academic-year months plus six summer months) will be provided within a forty-eight-month period.

The deadline for proposals is **October 17, 2012**. See `http://www.nsf.gov/pubs/2008/nsf08582/nsf08582.htm`.

—From an NSF announcement

Call for Nominations for SASTRA Ramanujan Prize

The Shanmugha Arts, Science, Technology Research Academy (SASTRA) invites nominations for the 2012 SASTRA Ramanujan Prize. The prize carries a cash award of US$10,000. The deadline for nominations is **June 30, 2012**.

The recipient will be invited to speak at the International Conference on the Legacy of Srinivasa Ramanujan at SASTRA University in Kumbakonam to be held December 14–16, 2012. The prize will be given during the celebration of the 125th anniversary of Ramanujan's birth. For more information, email `sastraprize@math.ufl.edu`, or see the website `http://www.math.ufl.edu/sastra-prize/nominations-2012.html`.

—Krishnaswami Alladi
University of Florida

Call for Nominations for 2012 Parzen Prize for Statistical Innovations

To promote the dissemination of statistical innovation, the Emanuel and Carol Parzen Prize for Statistical Innovation is awarded in even-numbered years to North American statisticians who have made outstanding and influential contributions by the development of innovative statistical methods and who received their Ph.D.'s more than twenty-five years ago. The Parzen Prize is awarded by the Department of Statistics at Texas A&M University to a nominee selected by the members of the Parzen Prize Committee. The prize consists of an honorarium of US$1,000 and travel to College Station, Texas, to present a lecture at the prize ceremony. The deadline for nominations for the

2012 prize is **June 15, 2012**. Nominations should be sent to Thomas Wehrly, Department of Statistics, 3143 TAMU, Texas A&M University, College Station, TX 77843-3143.

—From a Texas A&M announcement

International Mathematics Competition for University Students

The Nineteenth International Mathematics Competition (IMC) for University Students will be held July 26 through August 1, 2012, at American University in Blagoevgrad, Bulgaria. Participating universities are invited to send several students and one teacher; individual students are welcome. Students completing their first, second, third, or fourth years of university education are eligible. The competition will consist of two sessions of five hours each. Problems will come from the fields of algebra, analysis (real and complex), geometry, and combinatorics. The working language will be English. See the website `http://www.imc-math.org.uk/` or contact John Jayne, University College London, Gower Street, London WC1E 6BT, United Kingdom; telephone: +44 (0)77-40304010; email: `j.jayne@ucl.ac.uk`.

—John Jayne
University College London

News from IPAM

The Institute for Pure and Applied Mathematics (IPAM), an NSF math institute located at the University of California Los Angeles, offers programs that encourage cross-disciplinary collaboration. IPAM holds long- and short-term research programs and workshops throughout the academic year for junior and senior mathematicians and scientists who work in academia, the national laboratories, and industry.

Currently, IPAM is in the midst of its long program, "Computational Methods in High Energy Density Plasmas". Researchers from mathematics, physics, and engineering are in residence at IPAM, and a series of workshops are in progress. The final workshop, to be held the week of May 21, is entitled "Computational Challenges in Warm Dense Matter". IPAM sponsors two summer programs. Students in our undergraduate program "Research in Industrial Projects for Students" (RIPS) will work in teams on industry-sponsored research projects. Our summer school, "Deep Learning, Feature Learning", will be held July 9–27, 2012. The application deadlines for these programs have passed, but you may find more information on IPAM's website.

The Science Advisory Board will meet in November to consider workshop proposals for winter 2014, summer school proposals for summer 2014, and long program proposals for academic year 2014–2015. Program proposals from the community are welcome; instructions are available on our website.

IPAM's upcoming programs are listed below. Please go to `www.ipam.ucla.edu` for detailed information and to find application and registration forms.

September 10–December 14, 2012. Materials Defects: Mathematics, Computation, and Engineering. You may apply online for support to be a core participant for the entire program or to attend any of the following individual workshops.

September 11–14, 2012: Tutorials.

October 1–5, 2012: Workshop I: Quantum and Atomistic Modeling of Materials Defects.

October 22–26, 2012: Workshop II: Atomistic and Mesoscale Modeling of Materials Defects.

November 13–16, 2012: Workshop III: Mesoscale and Continuum Scale Modeling of Materials Defects.

December 3–7, 2012: Workshop IV: Computational Methods for Multiscale Modeling of Materials

January 14–March 8, 2013. Winter Workshops. You may apply for support or register for each workshop online.

January 14–18, 2013: Structure and Randomness in System Identification and Learning.

January 28–February 1, 2013: Adaptive Data Analysis and Sparsity.

February 11–15, 2013: Convex Relaxation Methods for Geometric Problems in Scientific Computing.

March 4–8, 2013: Multimodal Neuroimaging.

March 11–June 14, 2013. Interactions between Analysis and Geometry. You may apply online for support to be a core participant for the entire program or to attend any of the following individual workshops.

March 12–15, 2013: Tutorials.

March 18–22, 2013: Workshop I: Analysis on Metric Spaces.

April 8–12, 2013: Workshop II: Dynamics of Groups and Rational Maps.

April 29–May 3, 2013: Workshop III: Non-Smooth Geometry.

May 20–24, 2013: Workshop IV: Quasiconformal Geometry and Elliptic PDEs.

—From an IPAM announcement